

Came 2009 General Catalogue



About CAME



Came Worldwide: for over 36 years

For over 36 years CAME has been fully committed to an ambitious project embracing all aspects of security.

We have conducted stringent product tests, careful checks on the production processes, and ongoing personnel training programmes for all work phases.

Every phase - from design to assembly - is followed by highly specialised teams and state-of-the-art sector equipment.

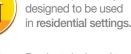
All production activities are carried out in our production units. This ensures that our internal managers can constantly control all the various procedures.

CAME guarantees distribution in Italy and around the world through its branches in Italy, France, Germany, Spain, UK, Belgium, Poland and United States, and its complete distribution and technical/commercial assistance network at the service of local operators.

Use











Product specifically designed to be used in industrial settings.



Product specifically designed for ntensive use.

Installation

₽

8

Battery-powered,

Wireless product

PRATICO SYSTEM

radio release system.

the remote control

with wireless

connection.

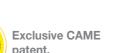
Product

ne





Motor and control panel powered by 3-phase, 230-400V A.C. line voltage.



patent.

New for 2009



Canada.

See our price lists to check availability.

Made in compliance with maximum impact force standards established by EN12445 & EN12453 Technical Regulations.





New Products 2009



page 36

page 37

Swing gates



230v Control Panel



Euronorm Compliant Sliding Gate Motor



Swing Gates



FROG-AE

New EN TESTED 230v AC underground motor with encoder.

FROG-AE is a new 230v AC Frog underground operator with encoder controlled movement management.

Combined with the new ZM3E control panel, the new FROG-AE simplifies the installation of EN compliant gateways using force limitation.

ZM3E

New EN TESTED 230v AC Control Panel.

The ZM3E control panel is our first 230v AC control board with slow down function capable of limiting the forces during gate opening and closing to meet current EN standards.

BX246

For gates weighing up to 600kg

For sliding gates weighing up to 600kg, the BX-246 is an intensive use automation motor featuring built in control board, radio decoder, encoder based movement control device and obstacle detection devices. The BX-246 model also contains mechanical end stops and battery backup options.

Axo

page 52

page 68

New rage of worm drive motors

The AXO worm drive swing gate operators offers a complete range of motors suitable for opening large or heavy gates of wing widths of up to 7m. An evolution of mechanical and electrical improvements ensures the Axo meets every power and reliability expectation.

The remote control with "Duplication Code Lock"



Automatic touch screen paystation

Access Control







DF20N

Ideal to meet current safety norms, sensitive safety edges are the answer to the multiple active protection requirements. CAME offers a host of ready to install and customisable profiles; depending on the requirements of the installation.





page 188 Twin Exclusive and safe with the new generation radio system

Twin is the new CAME transmitter with a 12 bit "Duplication Code Lock". This system ensures unauthorised duplication of remote handsets is restricted, only allowing additional remotes to be cloned by administrators who have the original key code.



Barcode ticket carpark management

Secure and robust, the PS range is engineered to work with tickets, tokens, keyfobs and transponder cards. During payment the PS system accepts note & coins.

Turnstiles

page 206

A new range of passage control turnstiles

A complete range of turnstiles ideal for controling access in a variety of situations. Turnstiles include compact three armmodels, modern DDA compatible gateways to full height entrances. The CAME range of turnstiles is capable of meeting your requirements.

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Sensitive Safety Edges - now available in black



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Turnstiles	Bridge	
	Twister	
	Guardian	
	Wing	
	Saloon	
	Compass	
	Flag	
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Accessories Automatic Swing and SI		
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EN 12445 - EN12453

Technical Reference Standards

The system's position and type of command are the most important characteristics to keep in mind, according to the EN 12445 and EN 12453 European Standards, when determining the exact setup and proper protection devices to install when it comes to safety. The Standards, define the minimum technical solutions that need to be present to make the primary edge safe (the passage zone), for every type of system and usage.

The letters A – B – C – D describe the mandatory devices for each type of system.

Command definitions

1. No self-holding command

The system works only with automatically reloading buttons or selector switches, which, if released block movement of the automation.

Choosing a "No self-holding" command depends on the type of use, (i.e. whether it is private or public).

3. Out-of-sight or Radio remote command

The system works with commands that are placed out-of-sight of the installation, such as transmitters, selector switches, buttons, wireless digital keypads, etc.

Whoever controls such devices need not be in plain view of the installed system.

2. Visible impulses from a fixed station

The system only works with buttons or selector switches that are placed in plain view of the door or gate.

Any type of command may be used, as long as it is of the impulse type and from a fixed station. (Self-holding is not required)

4. Automatic command

The system works with commands that are placed out-of-sight of the installed automation, and one, single impulse is enough for an entire work cycle (i.e. opening - pause - closing).

Commands which are for public use, such as buttons, radar, transmitters or timed, automatic commands.

Definitions of the solutions



Button operated, no self-holding command.

When conditions allow visibility on the system, safety is guaranteed by the operator.



Limiting the forces in compliance with annex A of EN Standard 12453.

Achievable through specific mechanical machinery, such as sensitive safety edges, or electronic ones fitted on the motor. Requires testing, in the points predetermined by the Standards, for compliance with maximum allowed impact forces, using a suitable CAME instrument.



Selector-switch, key or similarly operated, no self-holding command.

Placed right next to the installed system. When conditions allow visibility on the system, safety is guaranteed by the operator.



A device - placed on the floor to the side of a door or gate - to detect the presence of any person or obstacle.

A typical example is the application of infrared beam photocells.



Users and position + Command = Minimal solutions



TRAINED users' position in **PRIVATE** and **DEMARCATED** area

A limited group of people is trained to activate the automation and said automation is not located in public areas.

Example: automation is placed in private area and commanded by company employees.



TRAINED users positioned on PUBLIC STREET

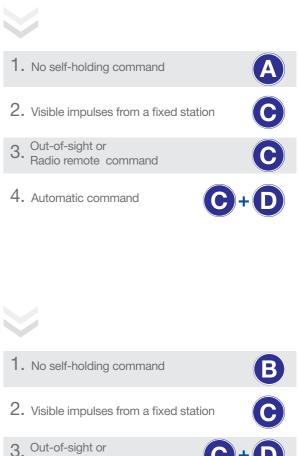
A limited group of people is trained to activate the automation and said automation is located in a public area.

Example: automation placed on a public street and commanded by members of a family.

FREE users **FREE** position

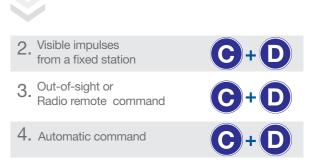
Any person is free to activate the automation and said automation comes into contact with the general public.

Example: automation placed in a public parking lot or in a shopping mall and is freely used.



- Radio remote command
- 4. Automatic command







A world of safe automation

www.cameuk.com





Complete system kits

Frog Kits

FROG technical specification & operational limits for all kits on these pages can be found on pages 36 (FROG) or 40 (FROG-J)

			CANE
	-P kit 🚇		P24 kit
Complete kit for a pair of 3.5 m / 11'5" each leaf,			pair of swing gates of up to leaf, 24V D.C. motors.
Qty	Qty (EN)	Qty	Qty
001 FROG-AE 230v Motor 2	002 ZM3E Control Panel 1	001 FROG-A24 24v Motor 2	002 ZL19N Control Panel 24v 1
001 FROG-BN Foundation Case 2	001 TOP-432NA Radio Remote (433,92MHz) 2	001 FROG-BN Foundation Case 2	001 TOP-432NA Radio Remote (433,92MHz) 2
001 A4364 Release Mechanism 2	001 TOP-A433N Antenna 1	001 A4364 Release Mechanism 2	001 TOP-A433N Antenna 1
001 DIR-10 Pair Safety Photocells	001 AF43S Frequency card. (433,92MHz) 1	001 DIR-10 Pair Safety Photocells 1	001AF43S Frequency card. (433,92MHz) 1 Eachy available as an optional extra, see page 38 for details
FrogAE	-S kit 🖭	set completer Frog-	S24 kit
Complete kit for a single 3.5 m / 11'5" leaf, 230V		Complete kit for a	single swing gate of up to leaf, 24V D.C. motor.
Qty	Qty 💮	Otv	We recommend provision be made for an electric look if the wing is wider than 2m
001 FROG-AE 230v Motor 1	002 ZM3E Control Panel 1		002 ZL170N Control Panel 24y 1
001 FROG-BN Foundation Case	001 TOP-432NA Radio Remote (433,92MHz) 2	001 FROG-A24 24v Motor 1	
001 A4364 Release Mechanism 1	001 TOP-A433N Antenna 1	001 FROG-BN Foundation Case 1 001 A4364 Release Mechanism 1	001 TOP-432NA Radio Remote (433,92MHz) 2
001 DIR-10 Pair Safety Photocells	001 AF43S Frequency card. (433,92MHz) 1		001 TOP-A433N Antenna 1 Emergency battery backup available as an
		001 DIR-10 Pair Safety Photocells	001AF43S Frequency card. (433,92MHz) 1 optional extra, see page 38 for details
Frog-P Complete kit for a pair of		FrogJ Complete kit for a	-P KIT
3.5 m / 11'5" each leaf,	230V A.C. motors.	Qty	eaf, 24V D.C. motors.
001 FROG-A 230v Motor 2	002 ZA3N Control Panel	001 FROGJ 24v Motor & Link Arm 2	002 ZL90 Control Panel 1
001 FROG-BN Foundation Case 2	001 TOP-432NA Radio Remote (433,92MHz) 2	001 FROGJC Foundation Case 2	001 TOP-432NA Radio Remote (433,92MHz) 2
001 A4364 Release Mechanism 2	001 TOP-A433N Antenna 1	001A4617 Release Assembly 2	001 TOP-A433N Antenna 1
001 DIR-10 Pair Safety Photocells	001 AF43S Frequency card. (433,92MHz) 1	001 DIR-10 Pair Safety Photocells	001AF43S Frequency card. (433,92MHz) 1 Energy backup available as an optional extra, see page 41 for details
Frog-S		FrogJ	
Complete kit for a single 3.5 m / 11'5" leaf, 230V		Complete kit for a 1.8 m / 6 ft each le	single swing gate of up to af, 24V D.C. motor.
Qty	Qty	Cty Oty	
001 FROG-A 230v Motor 1	002 ZA3N Control Panel	001 FROGJ 24v Motor & Link Arm 1	002 ZL90 Control Panel 1
001 FROG-BN Foundation Case	001 TOP-432NA Radio Remote (433,92MHz) 2	001 FROGJC Foundation Case 1	001 TOP-432NA Radio Remote (433,92MHz) 2
001 A4364 Release Mechanism 1	001 TOP-A433N Antenna 1	001 A4617 Release Assembly 1	001TOP-A433N Antenna 1 Emergency battery
001 DIR-10 Pair Safety Photocells	001 AF43S Frequency card. (433,92MHz) 1	001 DIR-10 Pair Safety Photocells	001AF43S Frequency card. (433,92MHz) 1 backup available as an optional extra, see page 41 for details
Swing GatesFrog Technical Information page 36Frog Complete Range page 37Control Panels pages 58 to 61	6 Access control pages 160-165 Safety pages 166-175 Radio control pages 176-189	Certain items listed in the kits on these pages, namely control board, remote control photocells, may be substituted without prior notice for a comparative alternative if item code is temporarily out of stock.	ACCESSULES



Frog Kits ¹³

لتتنبآ		2.5m ⁻ 3.5m
Â	800kg	600kg 400kg
		end provision be made for an t if the wing is wider than 2m
	Qty	
	1	-241







kits on these pages can be found on page 48

Krono Kits

KRONO technical specification & operational limits for all kits on these pages can be found on page 46

Image: A state of the state	Image: Window Structure
001 F7024N 24v Motor 2 002 ZL180 Control Panel with decoder 1	001KR300S 230v Motor, left handed 1 001KR300D 230v Motor, right handed 1
001AF43S Frequency card. (433,92MHz) 1 001TOP-432NA Radio Remote (433,92MHz) 2 001DIR10 Pair Safety Photocells 1 001TOP-A433N Antenna 1 backup available as an optional extra, see page	001AF43S Frequency card. (433,92MHz) 1 002ZA3N Control Panel 1 001DIR-10 Pair Safety Photocells 1 001TOP-432NA Radio Remote (433,92MHz) 2
001DIR10 Pair Safety Photocells 1 001TOP-A433N Antenna 1 optional extra, see page 49 for details 001KIAR024N Flashing Light 1 240	001KIARON Flashing Light 1 001TOP-A433N Antenna 1
Fast-S24 kit Complete kit for a single swing gate of up to 2.3 m / 7'6" leaf, 24V D.C. motor. ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	Image: Wight with the second secon
001 F7024N 24v Motor 1 002 ZL180 Control Panel with decoder 1	001KR510S 230v Motor, left handed 1 001KR510D 230v Motor, right handed 1
001AF43S Frequency card. (433,92MHz) 1 001TOP-432NA Radio Remote (433,92MHz) 2	001 AF43S Frequency card. (433,92MHz) 1 002 ZA3N Control Panel 1
001DIR10 Pair Safety Photocells 1 001TOP-A433N Antenna 1 backup available as an optional extra, see page 49 for details	001 DIR-10 Pair Safety Photocells 1 001 TOP-432NA Radio Remote (433,92MHz) 2
001 KIARO24N Flashing Light 1	001 TOP-A433N Antenna 1
Image: Ward of the state	Image: Strain Strai
001 F7000 230v Motor with control panel 1 001 F7001 230v Motor 1	001KR510S 230v Motor, left handed 1 002ZA3N Control Panel 1
001 AF43S Frequency card. (433,92MHz) 1 001 TOP-432NA Radio Remote (433,92MHz) 2	001 AF43S Frequency card. (433,92MHz) 1 001 TOP-432NA Radio Remote (433,92MHz) 2
001 DIR10 Pair Safety Photocells 1 001 TOP-A433N Antenna 1	001 DIR-10 Pair Safety Photocells 1 001 TOP-A433N Antenna 1
001 KIARON Flashing Light	
Fast-Skit Complete kit for a single swing gate of up to 2.3 m / 7'6" leaf, 230V A.C. motor. ↓ Im 2m 2.3m 20kg 215k 20kg	Image: Strain
Qty Qty Qty	001KR510D 230v Motor, right handed 1 002ZA3N Control Panel 1

001 F7000 230v Motor with control panel	1
001AF43S Frequency card. (433,92MHz)	1
001 DIR10 Pair Safety Photocells	1

230v Motor with control panel	1
S Frequency card. (433,92MHz)	1
Pair Safety Photocells	1

* we ele	ctric lock if the wing is
	Qty
001TOP-432NA Radio Remote (433,92MHz)	2
001TOP-A433N Antenna	1
001KIARON Flashing Light	1

Access control pages 160-165

Radio control pages 176-189

Safety pages 166-175

Certain items listed in the kits on these pages, namely control board, remote controls or safety photocells, may be substituted without prior notice for a comparative alternative if the advertised item code is temporarily out of stock.

001AF43S Frequency card. (433,92MHz)

001 DIR-10 Pair Safety Photocells

1

1

Fast Technical Information page 48 Swing Gates Fast Complete Range page 49 Control Panels pages 58 to 61

Accessories









002 ZA3N Control Panel	1	
001TOP-432NA Radio Remote (433,92MHz)	2	
001TOP-A433N Antenna	1	

Swing Gates

Krono Technical Information page 46 Krono Complete Range page 47 Control Panels pages 58 to 61

Amico Kits

AMICO technical specification & operational limits for all kits on these pages can be found on page 50

Ferni Kits

FERNI technical specification & operational limits for all kits on these pages can be found on page 42





Complete kit for a pair of swing gates of up to 1.8 m / 6 ft each leaf. 24V D.C. motors.





Amico-S24 kit

Complete kit for a single swing gate of up to 1.8 m / 6 ft leaf, 24V D.C. motor.

	Qty	
001 A1824 24v Motor	1	TESTED
001AF43S Frequency card. (433,92MHz)	1	
001DIR-10 Pair Safety Photocells	1	

2.0		200109	/ 213
		Qty	6
ED	002 ZL90 Control Panel	1	2
	001TOP-432NA Radio Remote (433,92MHz)) 2	E
	001TOP-A433N Antenna	1	optiona



001AF43S Frequency card. (433,92MHz)

001 DIR-10 Pair Safety Photocells

Amico-P230 kit

Complete kit for a pair of swing gates of up to 1.8 m / 6 ft each leaf. 230V A.C. motors.

	250K
	Qt
002ZA3N Control Panel	1
001TOP-432NA Radio Remote (433,92MHz)	2
001TOP-A433N Antenna	1



001A18230 230v Motor

Amico-S230 kit

Complete kit for a single swing gate of up to 1.8 m / 6 ft leaf, 230V A.C. motor.

002ZA3N Control Panel 001TOP-432NA Radio Remote (433,92MHz) 001TOP-A433N Antenna





001F1024 24v Motor

001AF43S Frequency card. (433,92MHz)

001 DIR-10 Pair Safety Photocells

Ferni-S24 kit

1

Complete kit for a single swing gate of up to 4.0 m / 13 ft leaf, 24V D.C. motors.



Ferni-P kit

4.0 m / 13 ft each leaf, 230V A.C. motors.

Ot/

001 F1000 230v Motor	2
001AF43S Frequency card. (433,92MHz)	1
001 DIR-10 Pair Safety Photocells	1

001**F1000** 230v Motor

Ferni-S kit Complete kit for a single swing gate of up to 4.0 m / 13 ft leaf, 230V A.C. motors. Qty Qtv 1 002ZA3N Control Panel 1 1 001TOP-432NA Radio Remote (433,92MHz) 2 001TOP-A433N Antenna

001AF43S Frequency card. (433,92MHz) 001 DIR-10 Pair Safety Photocells

> Certain items listed in the kits on these pages, namely control board, remote controls or safety photocells, may be substituted without prior notice for a comparative alternative if the advertised item code is temporarily out of stock.

> > Accessories

ing Gates	Ferni Technical Information page 42
	Ferni Complete Range page 43
	Control Panels pages 58 to 61

Swing Gates

Amico Technical Information page 50 Amico Complete Range page 51 Control Panels pages 58 to 61

Access control pages 160-165 Accessories Safety pages 166-175 Radio control pages 176-189

extra, see pag

Qty

1m	\1.5m\1.8m
50kg	215kg 200kg
Qty	





Complete kit for a pair of swing gates of up to 4.0 m / 13 ft each leaf. 24V D.C. motors.



002 ZL19N Control Panel	1
001 TOP-432NA Radio Remote (433,92MHz)	2
001 TOP-A433N Antenna	1

optional extra, see page 43 for details

	2m 800kg We recommelectric loci	end provi	5m 4m 0kg 400kg sion be made for an ig is wider than 2m
		Qty	
		1	TESTED
mote (433,92)	MHz)	2	Emergency batter
		1	backup available as a optional extra, see pag 43 for detail

Complete kit for a pair of swing gates of up to

002ZL19N Control Panel

001TOP-432NA Radio Re

001TOP-A433N Antenna





Access control pages 160-165 Safety pages 166-175 Radio control pages 176-189

18	Ati Kits	ATI technical specification & operational limits for all kits on these pages can be found on page 44		nnical specification & operational limits for all ts on these pages can be found on page 44
	Ati-Pki Complete kit for a pair of 5.0 m / 16'4" each leaf, O01A5000A 230v Motor 2 001AF43S Frequency card. (433,92MHz) 1 001DIR-10 Pair Safety Photocells 1	of swing gates of up to	Complete kit fo	P24 kit or a pair of swing gates of up to ach leaf, 24V D.C. motors. Image: Control Panel 002ZL180 Control Panel 001TOP-432NA Radio Remote (433,92MHz) 001TOP-A433N Antenna
	Ati-Ski Ati-Ski Complete kit for a single Complete kit for a single Outs Outs <td>e swing gate of up to</td> <td>Complete kit fo</td> <td>• Other decision • Other decision</td>	e swing gate of up to	Complete kit fo	• Other decision
	Ati P3 k Ati P3 k Complete kit for a pair of 3.0 m / 9'10" each leaf, Other construction Construction	of swing gates of up to 2m 2.5m 3m	Complete kit fo	Output 002ZL180 Control Panel 1 001TOP-433NA Antenna 1 Carpon of the part of th
	Outrage Ati-SS3 k Outrage Complete kit for a single Outrage Complete kit for	e swing gate of up to	Complete kit fo	Solution Image: Solution of the

Swing Gates

Ati Technical Information page 44 Ati Complete Range page 45 Control Panels pages 58 to 61

Access control pages 160-165 Accessories Safety pages 166-175 Radio control pages 176-189

Certain items listed in the kits on these pages, namely control board, remote controls or safety photocells, may be substituted without prior notice for a comparative alternative if the advertised item code is temporarily out of stock.



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Y	2	
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COMPLETE KITS

Accessories

Access control pages 160-165 Safety pages 166-175 Radio control pages 176-189

AXO technical specification & operational limits for all kits on these pages can be found on page 52

Axo Kits

AXO technical specification & operational limits for all kits on these pages can be found on page 52





Complete kit for a pair of swing gates up to 3.0 m / 9' 10" per leaf, 230V A.C. motors.

* e. 1	Qty			Qty	
001AX302304 230v Motor	2	TESTED	002ZM3E Control Panel	1	TESTED
001AF43S Frequency card. (433,92MHz)	1		001TOP-432NA Radio Remote (433,92MHz)	2	
001 DIR-10 Pair Safety Photocells	1		001TOP-A433N Antenna	1	







001AX302304 230v Motor

001AF43S Frequency card. (433,92MHz)

001 DIR-10 Pair Safety Photocells

Axo-S3 kit

Qtv

1

Complete kit for a single swing gate up to 3.0 m / 9' 10" leaf, 230V A.C. motors.

EN



	Qty	
002 ZM3E Control Panel	1	TESTER
001TOP-432NA Radio Remote (433,92MHz)	2	
001TOP-A433N Antenna	1	



10	Sel compete
1	001 4X71230 230v Motor

Axo-S7 kit

Qty

Complete kit for a single swing gate up to 7.0 m / 22' 11" leaf, 230V A.C. motors.

EN

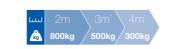
001AX71230 230v Motor	1	JUGO
001AF43S Frequency card. (433,92MHz)	1	
001DIR-10 Pair Safety Photocells	1	



001 DIR-10 Pair Safety Photocells

Axo-P4 kit

Complete kit for a pair of swing gates up to er leaf, 230V A.C. motors.



EN

4.0 m /	13'	per
1 ° °	Qty	A
001AX402306 230v Motor	2	
001 AF43S Frequency card. (433,92MHz)	1	

EN		Qty	6
TESTED	002 ZM3E Control Panel	1	
	001TOP-432NA Radio Remote (433,92MHz)	2	
	001 TOP-A433N Antenna	1	

001TOP-432NA Radio Remote (433,92MHz)



001AX402306 230v Motor

Axo-S4 kit

Complete kit for a single swing gate up to 4.0 m / 13' leaf, 230V A.C. motors.

EN



2

Swing Gates

1	001TOP-A433N Antenna

1

Axo Technical Information page 52

Axo Complete Range page 53

Control Panels pages 58 to 61



Certain items listed in the kits on these pages, namely control board, remote controls or safety photocells, may be substituted without prior notice for a comparative alternative if the advertised item code is temporarily out of stock.





\ \		Qty	
	002 ZM3E Control Panel	1	TESTED
	001TOP-432NA Radio Remote (433,92MHz)	2	
	001TOP-A433N Antenna	1	



	Qty	
002 ZM3E Control Panel	1	TESTED
001TOP-432NA Radio Remote (433,92MHz)	2	
001TOP-A433N Antenna	1	

AXO technical specification & operational limits for all kits on these pages can be found on page 52

BX Kits

BX technical specification & operational limits for all kits on these pages can be found on page 68 CAME **BX** Kits 🔒 400kg for a gate weighing up to 400kg, 230V A.C. Axo Kits Qty EN 001TOP-432NA Radio Remote (433,92MHz) 2 001TOP-A433N Antenna 🙈 800k for a gate weighing up to 800kg, 230V A.C. Qty 001**TOP-432NA** Radio Remote (433,92MHz) 2 001TOP-A433N Antenna for a gate weighing up to 600kg, 230V A.C. Qty 001TOP-432NA Radio Remote (433,92MHz) 2 001TOP-A433N Antenna 600kd for a gate weighing up to 600kg, 230V A.C. Qty 001**TOP-432NA** Radio Remote (433.92MHz) 2 COMPLETE KITS 001TOP-A433N Antenna Bx Technical Information page 70 Sliding Gates Bx Complete Range pages 71



Swing Gates Axo Technic Axo Comple Control Pan

Axo Technical Information page 52 Axo Complete Range page 53 Control Panels pages 58 to 61 Accessories Access control pages 160-165 Safety pages 166-175 Radio control pages 176-189 Certain items listed in the kits on these pages, namely control board, remote controls or safety photocells, may be substituted without prior notice for a comparative alternative if the advertised item code is temporarily out of stock.

4	BX	Kita
		INIC

	BX technical specification & operational limits for all kits on these pages can be found on page 70	BK K
BX-243	kit	
Complete kit for a slidin	ig gate 10m	

Kits

Complete kit for a sliding gate 400kg for a gate weighing up to 400kg, 24v D.C. Qty Qtv Qty EN 2 001 BX243 24v Motor & Panel 001TOP-432NA Radio Remote (433,92MHz) 001 BK800 230v Motor & Panel 001AF43S Frequency card. (433,92MHz) 1 001TOP-A433N Antenna 001AF43S Frequency card. (433,92MHz) 001 DIR-10 Pair Safety Photocells 001 DIR-10 Pair Safety Photocells **BX-246** kit BK-12P kit Complete kit for a sliding gate Complete kit for a sliding gate 🙈 600 kg for a gate weighing up to 600kg, 24v D.C. Qty Qty Qty EN 001**BX246** 24v Motor & Panel 001**TOP-432NA** Radio Remote (433,92MHz) 2 001BK1200P 230v Motor & Panel 1 001AF43S Frequency card. (433,92MHz) 1 001**AF43S** Frequency card. (433,92MHz) 001TOP-A433N Antenna 001 DIR-10 Pair Safety Photocells 1 001 DIR-10 Pair Safety Photocells



BK-1200 kit

Complete kit for a sliding gate

Qty 1

1

1

001 BK1200 230v Motor & Panel
001AF43S Frequency card. (433,92MHz)
001 DIR-10 Pair Safety Photocells



Complete kit for a sliding gate

Qtv

- 001BKE1200 230v Motor & Panel & encoder 1 001AF43S Frequency card. (433,92MHz)
- 001 DIR-10 Pair Safety Photocells

item code is temporarily out of stock.

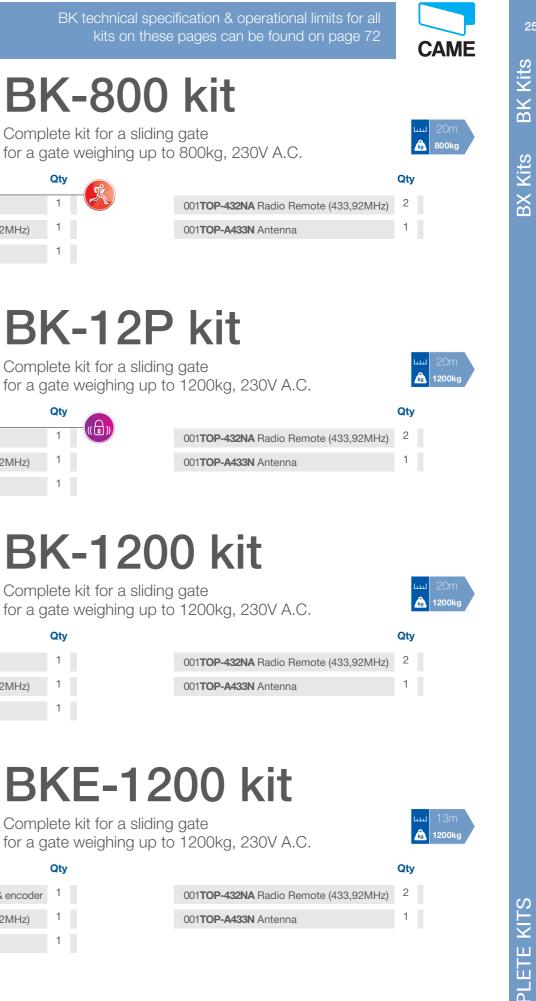
Certain items listed in the kits on these pages, namely control board, remote controls or safety photocells, may be substituted without prior notice for a comparative alternative if the advertised

Sliding Gates

BX Technical Information pages 68 - 71 BX Complete Range pages 68 - 71

Accessories

Access control pages 160-165 Safety pages 166-175 Radio control pages 176-189



BK Technical Information page **72**

BK Complete Range page 73

Sliding Gates

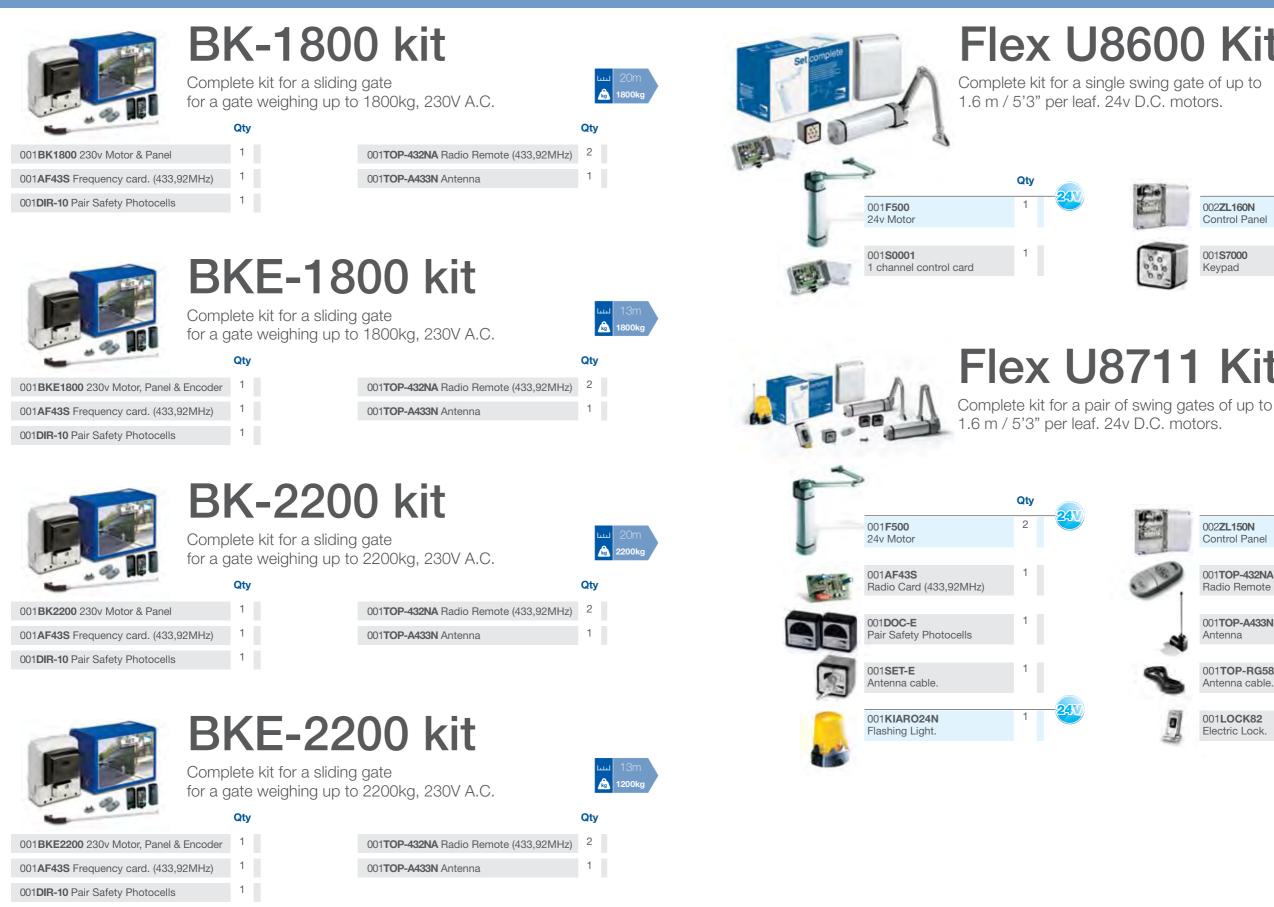
COMPLETE KITS

BK Kits

BK technical specification & operational limits for all kits on these pages can be found on page 72

Flex Kits

FLEX technical specification & operational limits for all kits on these pages can be found on page 54



Sliding Gates

BX Technical Information pages 68 - 71 BX Complete Range pages 68 - 71

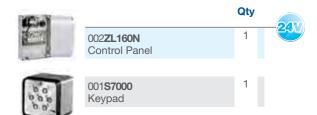
Access control pages 160-165 Accessories Safety pages 166-175 Radio control pages 176-189

Certain items listed in the kits on these pages, namely control board, remote controls or safety photocells, may be substituted without prior notice for a comparative alternative if the advertised item code is temporarily out of stock.



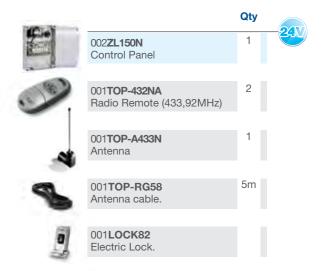
Flex U8600 Kit





Flex U8711 Kit





Swing Gates

Flex Technical Information page 54 Flex Complete Range page 55 Control Panels pages 58 to 61

Flex Kits

BK Kits



VER technical specification & operational limits for all kits on these pages can be found on page 82

Ver U4483-B Kit Complete Garage Door Kit. Complete with chain guide Qty Qtv 001**V900E** 001**AF43S** 24v Motor Radio Card (433,92MHz) 001**V0679** 001**TAM-432SA** ransmission Arm Radio Remote 001**KIARO24N** 001**DIR10** Pair Safety Photocells Flashing Light 001**DOC-P** Push Button **Ver U4480-B Kit** Complete Garage Door Kit. Complete with belt guide Qty Otv 001**V900E** 001**AF43S** Radio Card (433,92MHz) 24v Motor 001**V0687** 001**TOP-432NA** Radio Remote (433,92MHz) Standard Transmission Arm 001**DOC-P** 001TOP-A433N 0 Push Button Antenna 001TOP-RG58 ntenna cable Ver U4512-B Kit Complete Garage Door Kit. Complete with belt guide Qty 001**V700E** 001**AF43S** Radio Card (433,92MHz) 24v Motor 001**V0687** 001TOP-432NA Standard Transmission Arm Radio Remote (433,92MHz) 001TOP-RG58 001TOP-A433N Antenna cable. Antenna 001**DOC-P** Push Button

Complete remote control radio systems



Tra

Complete remote control radio systems

Complete Kits

Tra03 Complete 433,92 MHz radio system for 12-24V A.C.-D.C. universal use

		Qty
001 RE432	12 - 24V A.CD.C. IP54 surface mount bi-channel receiver	1
001 TOP-432NA	Radio Remote (433,92MHz)	2
001T OP-A433N	Antenna	1
001 TOP-RG58	Antenna cable	5m

Tra08 Complete 433,92 MHz radio system for 230V A.C. universal use

		Qty
001 RBE42	230V A.C. IP54 surface mount 4-channel radio module	1
001 AF43S	Plug-in radio frequency card. (433,92MHz)	2
001 TOP-434NA	Radio Remote (433,92MHz)	2
001 TOP-A433N	Antenna	1
001 TOP-RG58	Antenna cable	5m

Tra010 Complete 433,92 MHz radio system for 12-24V A.C.-D.C. universal use 999 users

		QLY
001 RBE4MT	12 - 24V A.CD.C. IP54 surface mount 4-channel multi-user receiver to store up to 999 codes (users)	1
001 TAM-432SA	Radio Remote (433,92MHz)	2
001 TOP-A433N	Antenna.	2
001 TOP-RG58	Antenna cable.	5m

Tra04 Complete 433,92 MHz command system for ROLLING SHUTTERS

		Qty	
002 ZR24	230V A.C. control panel with built-in radio decoder.	1	
001 AF43S	Plug-in radio frequency card. (433,92MHz)	1	
001 TOP-432NA	Radio Remote (433,92MHz).	1	

Certain items listed in the kits on these pages, namely control board, remote controls or safety photocells, may be substituted without prior notice for a comparative alternative if the advertised item code is temporarily out of stock.

VER Technical Information page 82 VER Complete Range page 83





Oth

COMPLETE KITS



A world of safe automation





Swing gate operators

The range

The models

With a range of 27 models, automating almost any swing gate is possible. Be they wrought iron, steel or wooden, you will find a motor contained in the table below that will meet your needs. CAME models are available in 230v A.C., 24v D.C. and three phase options, follow the suggested application type below to choose the system that suits your application.

Use		RESIDENTIAL	APARTMENT BLOCKS	INDUSTRIAL	INTENSIVE USE
					Ŗ
Series	Model		Max Width (m)		
Frog	Frog-AV	1.3			
Flex	F500	1.6			YES
Flex	F510	1.6			YES
Amico	A1824	1.8			YES
Frog-J	FROG-J	1.8			YES
Amico	A18230	2.2			
Fast	F7024N	2.3	2.3	2.3	YES
Fast	F7001	2.3	2.3		
Fast	F7000	2.3	2.3		
Ati	A3024N	3	3	3	YES
Ati	A3000A	3	3		
Ati	A3100	3	3		
Ati	A3006	3	3		
Ati	A3106	3	3		
Ахо	AX3024	3	3	3	YES
Axo	AX302304	3	3		
Krono	KR300D/S	3	3		
Krono	KR310D/S	3	3		
Frog	Frog-A24	3.5	3.5	3.5	YES
Frog	FROG-A	3.5			
Frog	FROG-AE	3.5			
Axo	AX402306	4	4		
Ахо	AX412306	4	4		
Ferni	F1024	4	4	4	YES
Ferni	F1000	4	4		
Ferni	F1100	4	4		
Ati	A5024N	5	5	5	YES
Ati	A5000A	5	5		
Ati	A5100	5	5		
Ati	A5006	5	5		
Ati	A5106	5	5		
Ati	A5106	5	5		
Ахо	AX5024	5	5	5	YES
Krono	KR510D/S	5	5		
Ахо	AX71230		7	7	
Superfrog	Frog MD/MS		8	8	
			• 230V	A.C. • 24V D.C. • 23	0-400V A.C. three phase

Standard recommended installation

Standard RESIDENTIAL installation example

TRAINED users and positioned on a PUBLIC STREET

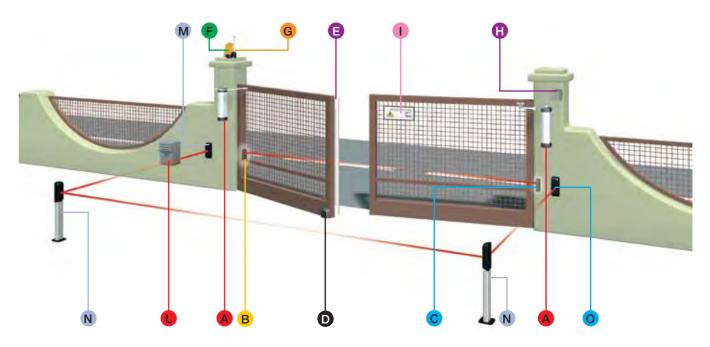
Remote controlled operation is often the desired activation method, this needs to be considered when choosing safety options. This safety should therefore be applied on both the so-called "primary edge" (i.e. the passage zone) and the "secondary edge" (the zone behind the gate leaf).

Current legislation requires the C + D type minimal solutions (ref. page 8): employing sensitive safety edges and infrared beam photocells.



Important

If using EN12445 - EN12453 tested motors and control panels (highlighted with the green EN Tested mark), then sensitive safety edges need not be installed, provided that the required impact-force measurements (taken for each individual installation by the engineer responsible) are compliant with the parameters dictated by the Standards.



Standard issue

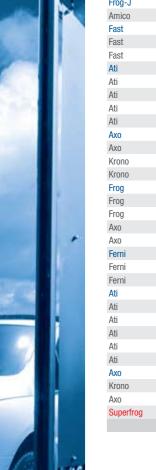
Motors	Cable length (m)						
	Cable length (ft)		< 32,8		32,8 - 65,61		65,61-98,4
TX Infrared photocells	Power supply 230V A.C. (120V A.C.) 750W Max	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG14	3Gx1.5mm ²	3GxAWG1
RX Infrared photocells	 Power supply 230-400V A.C. 3-phase 750W Max 	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG1
	 Motor power supply 230V A.C. (120V A.C.) 750W Max 	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG1
Electric lock	 Motor power supply 230-400V A.C. 3-phase 750W Max 	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG1
	 Motor power supply 24V D.C 400W Max 	2Gx1.5mm ²	2GxAWG15	2Gx2.5mm ²	2GxAWG13	2Gx2.5mm ²	2GxAWG1
Safety sensitive edge	O Endstop microswitches	*n°x0.5mm ²	n°xAWG20	*nx0.5mm ²	n°xAWG20	*n°x0.5mm ²	n°xAWG2
Flashing light	 Flashing light 24V A.CD.C. 25W 	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1mm ²	2xAWG1
r idstilling light	 Flashing light 230V A.C. (120V A.C.) 25W 	2x1.5mm ²	2xAWG15	2x1.5mm ²	2xAWG15	2x1.5mm ²	2xAWG1
Antenna	 TX Photocell 	2x0.5mm ²	2xAWG20	2x0.5mm ²	2xAWG20	2x0.5mm ²	2xAWG2
	RX Photocell	4x0.5mm ²	4xAWG20	4x0.5mm ²	4xAWG20	4x0.5mm ²	4xAWG2
Selector switch (key - code - card)	 Electric lock 12V D.C. 	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1.5mm ²	2xAWG1
Orte alata	Electric lock 24V D.C.	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1mm ²	2xAWG1
Gate plate	 Commands 	*n°x0.5mm ²	n°xAWG20	*n°x0.5mm ²	n°xAWG20	*n°x0.5mm ²	n°xAWG2
Control panel	Antenna			RG58 Max 1	0m 32.8 ft		
			*n°	e see instruct	ions 🗨 Europe	an standards 🤇	US standa

Safety Edges



The Df series sensitive edges are exclusively patented by CAME. They are deformable along their entire length and have no rigid parts. Df is a unique product able to detect any contact with an object or person, and command the gate to stop or reverse.







The diagram above is for the Flex, Ferni & Fast series.

Wireless Convenience



The new Db series' Wireless photocells allow increased protection of the gateway without the increased costs incurred by running cable to the beam locations. Plus Db cells are capable of zonal coverage, improving the overall protection area.

Standard APARTMENT BLOCK installation example

TRAINED users and positioned on a PUBLIC STREET

In the following example we suggest using a 24V D.C. system, to guarantee the highest performance levels and intensive use. Again, remote controlled operation is often the desired activation method, which needs to be considered when choosing safety options. This safety should therefore be applied on both the so-called "primary edge" (the passage zone) and the "secondary edge" (the zone behind the gate leaf).

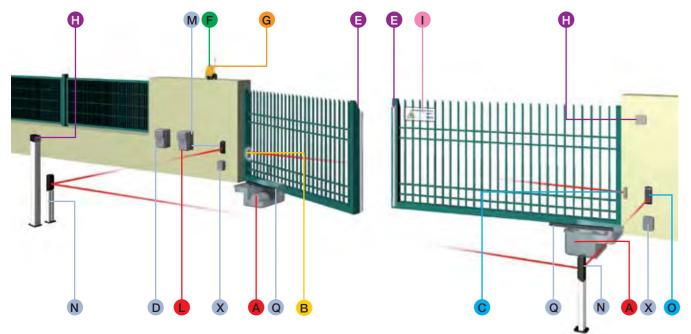
Current legislation requires the C + D type minimal solutions (ref. page 7):

employing sensitive safety edges and infrared beam photocells.

EN Important

TESTED

If using EN12445 – EN12453 tested motors and control panels (highlighted with the green EN Tested mark), then sensitive safety edges need not be installed, provided that the required impact-force measurements (taken for each individual installation by the engineer responsible) are compliant with the parameters dictated by the Standards.



Standard issue

	Motors	Key release	Cable length (m)	<10		10 - 20		20 - 30	
-		-	Cable length (ft)		< 32'8"		32'8" - 65'6"		65'6"- 98'4
В	TX Infrared photocells	Junction box	Power supply 230V A.C. (120V A.C.) 750W Max	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG14	3Gx1.5mm ²	3GxAWG14
	RX Infrared photocells		Power supply 230-400V A.C. 3-phase 750W Max	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15
C	na inirared protocells		Motor power supply 230V A.C. (120V A.C.) 750W Max	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG1
D	Emergency batteries and operation card		Motor power supply 230-400V A.C. 3-phase 750W Max	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG1
	- <u>-</u>		Motor power supply 24V D.C 400W Max	2Gx1.5mm ²	2GxAWG15	2Gx2.5mm ²	2GxAWG13	2Gx2.5mm ²	2GxAWG1
B	Safety sensitive edge		O Endstop microswitches	*n°x0.5mm ²	n°xAWG20	*nx0.5mm ²	n°xAWG20	*nx0.5mm ²	n°xAWG2
Ā	Fleebing light		 Flashing light 24V A.CD.C. 25W 	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17
F	Flashing light		 Flashing light 230V A.C. (120V A.C.) 25W 	2x1.5mm ²	2xAWG15	2x1.5mm ²	2xAWG15	2x1.5mm ²	2xAWG1
G	Reception antenna		 TX Photocell 	2x0.5mm ²	2xAWG20	2x0.5mm ²	2xAWG20	2x0.5mm ²	2xAWG20
-			RX Photocell	4x0.5mm ²	4xAWG20	4x0.5mm ²	4xAWG20	4x0.5mm ²	4xAWG20
B	Selector switch (key - code - card)		 Electric lock 12V D.C. 	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1.5mm ²	2xAWG15
			 Electric lock 24V D.C. 	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17
	Gate plate		 Commands 	*n°x0.5mm ²	n°xAWG20	*n°x0.5mm ²	n°xAWG20	*n°x0.5mm ²	n°xAWG20
	Control panel		Antenna			RG58 Max 1	0m 32.8 ft		
Y					*n°	= see instruct	tions 🗢 Europe	an standards 🤇	US standar
B.A	N A Wireless shotssells M TV N TV/								

M N O Wireless photocells M=TX - N=TX/RX - O=RX

24 Volts to adjust speed



24V D.C. swing-gate motors, let you manage the movement speed of the gate leaves, obstacle sensitivity and deceleration during the final closing phase, all to provide maximum safety even in multi-user settings where a high volume of traffic requires greater performance levels.

Keyfob Activation



The PCT transponder keyfobs, coupled with the TSP01 proximity sensors, lets you open your gates simply by holding them up to the sensor, which can store up to 250 different keyfobs (or cards). These can also be used to open the door to stairwells or private garage doors.

The given diagram is for all operators of Frog - Frog-J series.

Summary of features

Swing Gate Operators

operators – Series		ATI KRONO FROG FAST FERNI	ATI KRONO FROG FAST FERNI	FAST F7000 MODEL (with built-in panel)	A1824 FROG-J	F500 F510	F500 F510	FROG-A24 F1024	A3024N A5024N F7024N	FROG-A F1024
		ZA3N	ZM3E		ZL90	ZL150N	ZL160N	ZL170N	ZL180	ZL19N
FUNCTIONAL FEATURES										
SELF-DIAGNOSIS of active safety devices function			٠		٠				•	•
Opening and closing PREFLASHING function		•	•		•	•		•	•	•
REOPENING during closing function		٠	٠	•	٠	٠	•	٠	٠	٠
RECLOSING during opening function		•	•			•				
Obstacle STALL function	~		٠		•					
TOTAL STOP function	Ē	•	•	•	•	•	•	•	•	•
PARTIAL STOP of the gate-leaf function	SA	•	•		•	•		•	•	•
OBSTACLE DETECTION function on photocells		•	•		•	• Swi		•	•	•
ENCODER operation			٠		•					
MOVEMENT CONTROL and obstacle detection device			٠							
AMPEROMETRIC DETECTION function					•		•	٠	٠	٠
1 leaf PEDESTRIAN OPENING function			٠	•	•				•	•
1 leaf PARTIAL OPENING function		•	•			•				
TRANSMITTER OPEN ONLY function		•	•		•	•		•	•	•
OPEN ONLY button connection function	ш		•		•	•		•	•	
CLOSE ONLY button connection function	-	•	•					•	•	
OPEN-STOP-CLOSE-STOP button connection function	ą		•	•			•	•	•	
OPEN-CLOSE-REVERSE button connection function	COMMAND	•	•	•						
MAINTAINED ACTION command function	CO		•		-	-	•	-		
1st leaf DELAYED CLOSING function	-			•	•	•	•	•	•	•
2st leaf DELAYED CLOSING function	ж.	•	•	•	٠	٠			•	•
IMMEDIATE CLOSING function	-	•	•	•	•	•			•	•
EMERGENCY RELEASE function from the remote control	н									
FLASHING LIGHT connection				•				-		
CYCLE LAMP connection	-	•	•	•	•	•	•	٠	•	٠
COURTESY LAMP connection	-	•	•					•		•
	-		•							
Antenna connection	-	•	•	•	•	•	•	•	•	•
24V ACCESSORIES connections		•	•	•	•	٠	•	٠	•	•
OPEN WARNING LIGHT connection	-	•	•	•	•	•	•	•	•	•
CLOSED WARNING LIGHT connection	-									
Contact output for 2nd RADIO CHANNEL		•	•		•	•		•	•	•
Adjusting RUNNING TIME		•	•	•	٠	٠	•	٠		
EXTRACTABLE, NUMBERED connection terminals	LΠ	•	٠	•	•	•	٠	٠	٠	٠
SELF-LEARNING function of the transmitter's RADIO code	FUNCTIONALITY	•	٠	•	•	•	•	•	•	٠
RAM BLOW function to aid the release of the electrolock	ICTI	•	٠	•		•	٠	٠		٠
Adjustable AUTOMATIC RE-CLOSING TIME function	Ę	•	•	•	•	•	•	•	•	•
ELECTROLOCK/ELECTRORELEASE connection output		•	٠	•	٠	٠	•	٠	•	٠
OPENING AND/OR CLOSING deceleration			•		•			•	•	•
EMERGENCY-BATTERY operation (optional)					•	•	٠	٠	٠	•
MASTER-SLAVE operation mode										
Adjustable RUNNING SPEED AND DECELERATION function			٠		•			٠		•
Narning DISPLAY			•							
Electronic BRAKE										
CONTROL and warning led		•	•		•	•	•	•	•	•
SELF-LEARNING function of the opening and closing endstops					•					





for gate leaves of up to 3.5 m for gate leaves of up to 11'5" ft

Completely Hidden

Frog

Frog represents the synthesis of CAME's design philosophy and creativity applied to swing gates. Extremely sturdy and all but invisible, the system in no way detracts from the aesthetics of your entrance.



Water tight. Frog's high quality standards and its IP67 protection rating from external agents help keep the motor in working order.



Bottom Hinge. Installing Frog casings as a bottom hinge is simple and enables you to retrofit the automation with ease at a later date.



Easy, patented release. In the event of a power cut. the FROG manual release mechanism is easily accessible. It comes in three versions for each specific need, from a practical lever arm to the customised key.





Frog 24V and 230V technology allows for total control of the gate movement. FROGA-A24 and FROG-AE models are compliant to EU standards (EN12445 and EN12453) together with the ZL19N, ZL170N and ZM3E control panels.

Advantages of Frog

FROG is the most functional and desirable solution for every type of swing gate. It is the best way to automate a gate without altering its shape and design.

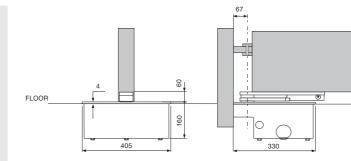
In the CAME tradition the gearing is electromechanical and ensures smooth precise and safe movement over time.

-	Limits	to	use
	Model		

	Model	FROG-AV	FRC)G-A - FROG-AE -	ROG-A24
-0	Max width of gate leaf (m)	1.3	*3.5	*2.5	2
1. I	Max weight of gate leaf (Kg)	300	400	600	800
				0 230	V A.C. 🔵 24V D.C.

NOTES: * We recommend provision be made for an electric lock if the wing is wider than 2.5m

Dimensions



Dimensions in millimetres (25.4 mm = 1 in)

Accessories

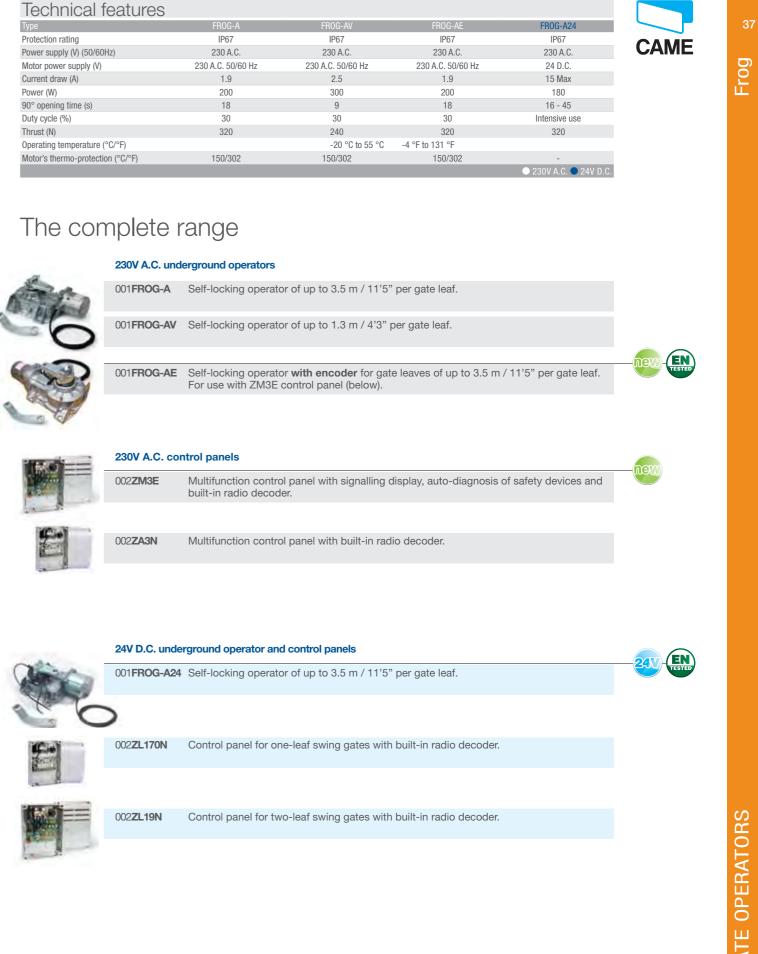
Access control pages 160-165 Safety pages 166-175 Radio control pages 176-189

Technical features		EDOO AV
Туре	FROG-A	FROG-AV
Protection rating	IP67	IP67
Power supply (V) (50/60Hz)	230 A.C.	230 A.C.
Motor power supply (V)	230 A.C. 50/60 Hz	230 A.C. 50/60 Hz
Current draw (A)	1.9	2.5
Power (W)	200	300
90° opening time (s)	18	9
Duty cycle (%)	30	30
Thrust (N)	320	240
Operating temperature (°C/°F)		-20 °C to 55 °C
Motor's thermo-protection (°C/°F)	150/302	150/302

2	001 FROG-A	Self-locking operator of up to 3.5 m / 1
5	001 FROG-AV	Self-locking operator of up to 1.3 m / 4
3	001 FROG-AE	Self-locking operator with encoder for For use with ZM3E control panel (below



2 ZM3E	Multifunction control panel with signallin built-in radio decoder.
2 ZA3N	Multifunction control panel with built-in



SWING GATE OPERATORS

4V

The complete range

	Casings & Lo	cks
	001 FROG-BN	Coated steel foundation case.
Chill I	001 FROG-BI	Inox AISI 304 steel foundation case.
9	001 A4364	Lever key release.
1	001 A4365	Triangular key release.
	001 A4366	Customized key release and EURO-DIN cylinder.
	Accessories	
	002 LB18	Casing with emergency card, fitted to house three 12V - 7 Ah batteries (for ZL170N and ZL19N control panels).
	BAT3PK	Set of 3 12V - 7Ah batteries
and the second	001 A4370	Transmission lever for opening arcs of up to 140° for gate leaves no wider than 2 m / 6'6".
	001 8 4 4 70	
3433	001 A4472	Transmission lever with adjustable gate-leaf opening stop.
(Same	001 FL-180	Chain driven transmission lever for opening arcs of up to 180° for gate leaves
Concession of the local division of the loca		no wider than 2 m / 6'6" ft (excluding FROG-A24).
	001 LOCK81	Electric lock with single-cylinder.
ALL .	001 LOCK82	Electric lock with double-cylinder.

-

001 LOCK82	Electric lock with double-cylinder.
M6	Grease gun adaptor for Frog shoe (enables application of grease during maintenance).

New FROG foundation case



With a cataphoresis treatment and black resin coating the new FROG foundation case provides improved chemical and corrosion resistance to ensure long lasting protection.

Technical Features type

Thickness (µm) Resistance to salt/water per norm ASTM B117-94 (hours) Alkali Resistance Hydrocarbon Resistance UV Resistance Impact Resistance





Frog

15 - 30 500 - 700 High High High Direct 70 Kg - Indirect 70 Kg

A world of safe automation

Frog-J Swing gate operators

suitable for use around children or pets.

Underground automation motor, just 85mm deep! The Frog-J is a 24V underground operator for swing gates of up to 1.8 m / 5'9" per gate leaf. It is tested in compliance with European Standards on the subject of impact force. This feature makes Frog-J a safe and reliable electromechanical system



for gate leaves of up to 1.8 m for gate leaves of up to 5'9" ft

Technical features

IEU II IIUAI IEALUIES	
Туре	
Protection rating	
Power supply (V) (50/60Hz)	
Motor power supply (V)	
Current draw (A)	
Power (W)	
90° opening time (s)	
Duty cycle (%)	
Torque (Nm)	
Operating temperature (°C/°F)	-20 °C to §

The complete range



001FROG-J Operator with encoder.



002**ZL90** Control panel for two-leaf swing gates wit



Casing & Locks

001FROG-JC Foundation case.

Release assembly with customised key. 001**A4617**

Accessories

Set of 2 x 12V - 1.2 Ah batteries. BAT2PK

002**LB90** Card for connecting up two 12V - 1.2Ah



Innovative double release. The easily operated double release system is accessible from either side of the gateway. It is secure and protected from the elements.

Encoder technology The encoder is constantly monitoring and controlling the gate movement allowing for total safety.



Easy connections. With Frog-J you need just one 3 core cable to connect the motors and to manage endstops

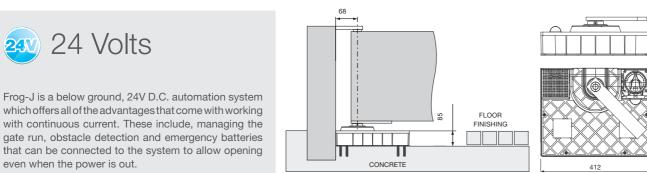
24 Volts

even when the power is out.





Dimensions



Dimensions in millimetres (25.4 mm = 1 in)

Accessories

Access control pages 160-165 Safety pages 166-175 Radio control pages 176-189

Advantages of Frog-J

CAME's latest solution in underground operators, suitable even when gates are not originally designed for underground automation. The Frog-J needs very little space to be fitted. Requiring a minimal amount of ground work, it adds the advantages of an underground system with reduced extra cost.

The ZL90 latest generation control panel is fitted with a led-monitored, self-diagnosing function and is designed to be connected to motors by way of a three core cable.

Limits to use	
Model	FROG-J
Max width of gate leaf (m)	1.8
Max weight of gate leaf (Kg)	200
Max opening of gate leaf (°)	105
	● 24V D.(

FROG-J	
IP67	CAME
230 A.C.	CAIVIE
24 D.C.	
10 Max	
240	
Adjustable	
Intensive use	
260	
o 55 °C -4 °F to 131 °F	
● 24V D.C.	
	-24V (EN)
h built-in radio decoder.	
	-241
emergency batteries with rack.	

EN

for gate leaves of up to 4 m for gate leaves of up to 13 ft

Swing gate operators

For mounting on large pillars.

Ferni

Ferni is the optimal solution for gates mounted on pillars where the motor-hinge centre distance can be quite large. Its unique transmission lever provides a simple and effective solution to the movement issues affecting such gates.



Advantages of the 24V D.C. electronics The 24V technology adds increased safety, allowing for adjustments of run speed, opening & closing deceleration, & electronic obstacle detection.

Precise, sturdy and dependable. Ferni features micro-switches for adjusting the opening of the gate, and is manufactured from high quality materials helping reduce maintenance costs.









Ferni 24V technology allows for total control of the gate movement. The F1024N model complies with European Standards as concerns the impact forces generated during operation.

Advantages of Ferni

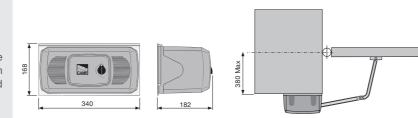
The sturdy and powerful operator featuring an articulated arm for gates with leaves of up to 4 m / 13 ft in length.

A system which enables gate automation when the dimensions of a pillar prevent any other automated device from being installed. Ferni is also available with the special "slide" arm version. This can be installed where little lateral space is available on gate leaves up to 2 m / 6'6" wide.

Model		F1000 -	F1100 - F1024	
Max width of gate leaf (m)	4	3	2.5	2
Max weight of gate leaf (Kg)	400	500	600	800

NOTES: if the gate leaf is wider than 2.5 m / 8'2" ft, the F1000 and F1024 models require an electric lock to be installed. While an electric lock is always required for the F1100 model.

Dimensions



Dimensions in millimetres (25.4 mm = 1 in)

Technical fe	atures				
Туре		F1000	F1100	F1024	
Protection rating		IP54 230 A.C.	IP54 230 A.C.	IP54 230 A.C.	CAME
Power supply (V) (50/60Hz) Motor power supply (V))	230 A.C. 50/60 Hz	230 A.C. 50/60 Hz	230 A.C. 24 D.C.	
Current draw (A)		1.3	1	15 Max	
Power (W)		150	110	180	
90° opening time (s)		18	18	16 - 45	
Duty cycle (%)		30	50	Intensive use	
Torque (Nm)		320	380	470	
Operating temperature (°C/			-20 °C to 55 °C -4 °F to 131 °F		
Motor's thermo-protection	(°C/°F)	150/302	150/302	-	
				● 230V A.C. ● 24V D.C.	
The com	iplete i	range			
	-	ernal operators			
	001 F1000	Self-locking operator with articu	ulated transmission arm.		
	001 F1100	Reversible operator with articula	ated transmission arm		
	001F1100	neversible operator with articula			
	230V A.C. cor	ntrol panels			
	002 ZA3N	Multifunction control panel with	built-in radio decoder.		
	002 ZM3E	Multifunction control panel with built-in radio decoder.	n signalling display, auto-diagnos	is of safety devices and	
	24V D.C. exte	rnal operator and control pane	ls		
UT.	001 F1024	Self-locking operator complete	with articulated transmission arm	l.	TESTED
1	P				
2	002 ZL170N	Control panel for one-leaf swing	g gates with built-in radio decode	r.	-240
	002 ZL19N	Control panel for two-leaf swing	g gates with built-in radio decode	r.	-243
	Accessories				
111 M	002 LB18	Casing with emergency card, fit (for ZL170N and ZL19N control	ted to house three 12V - 7 Ah ba panels).	tteries	-243
	001 LOCK81	Electric lock with single-cylinde	r.		
ø 😃 🛛	001 LOCK82	Electric lock with double-cylind	er.		
1	001 F1001	Straight talescopic transmission	n arm for up to 2 m / 6'6" long ga	to leaves	
~	00111001	onaight toroocopic transmission	raminor up to 2 m7 0 0 iong ga		
	001 H3000	Safety casing complete with rel $L = 5 \text{ m} / 16'4"$.	ease handle and command butto	n for pull-cord release	
	BAT3PK	Set of 3 12V - 7Ah batteries.			
			-		

Protection rating Power supply (V) (50/6		F1000 F110	0	F1024	
		IP54 IP5		IP54	CANAL
	60Hz)	230 A.C. 230 A	C. 2	30 A.C.	CAME
Motor power supply (V	0	230 A.C. 50/60 Hz 230 A.C. 5)/60 Hz	24 D.C.	
Current draw (A)		1.3 1		5 Max	
Power (W)		150 110		180	
90° opening time (s)		18 18		6 - 45	
Duty cycle (%)		30 50		nsive use	
Torque (Nm)		320 380		470	
Operating temperature	e (°C/°F)	-20 °C to 55 °C	-4 °F to 131 °F	110	
Motor's thermo-protect		150/302 150/3		-	
		100002 1000		230V A.C. • 24V D.C.	
The co	mplete	ande			
	-	ernal operators			
	001 F1000	Self-locking operator with articulated transmissi	on arm.		
Y	001 F1100	Reversible operator with articulated transmissio	n arm.		
	230V A.C. co	trol panels			
MARK N	00071000				
1000	002 ZA3N	Multifunction control panel with built-in radio de	coder.		
Real Provide State					
-					
					— nevy
款()==	002 ZM3E	Multifunction control panel with signalling displ	ay, auto-diagnosis of saf	ety devices and	pleede
a strengt		built-in radio decoder.			
With a					
-	24V D.C. ovt	rnal anaratar and control panala			
	24V D.C. exte	rnal operator and control panels			
	001 F1024	Self-locking operator complete with articulated	ransmission arm		TESTED
		Con looking operator complete with a doubted			
T					
					-241
	002 ZL170N	Control panel for one-leaf swing gates with built	in radio decoder.		
84-340					
The second					
E					
	002 ZL19N	Control panel for two-leaf swing gates with built	in radio decoder.		-241
	002 ZL19N	Control panel for two-leaf swing gates with built	in radio decoder.		-241
	002 ZL19N	Control panel for two-leaf swing gates with built	in radio decoder.		-2410
	002 ZL19N	Control panel for two-leaf swing gates with built	in radio decoder.		-2410
		Control panel for two-leaf swing gates with built	in radio decoder.		-2410
	002ZL19N Accessories	Control panel for two-leaf swing gates with built	in radio decoder.		-241
	Accessories				-241
		Casing with emergency card, fitted to house thr			-2410
	Accessories				-241
	Accessories	Casing with emergency card, fitted to house thr			-241
	Accessories	Casing with emergency card, fitted to house thr (for ZL170N and ZL19N control panels).			-241
	Accessories 002LB18	Casing with emergency card, fitted to house thr			-241
	Accessories 002LB18 001LOCK81	Casing with emergency card, fitted to house thr (for ZL170N and ZL19N control panels). Electric lock with single-cylinder.			-240
	Accessories 002LB18	Casing with emergency card, fitted to house thr (for ZL170N and ZL19N control panels).			-230
	Accessories 002LB18 001LOCK81	Casing with emergency card, fitted to house thr (for ZL170N and ZL19N control panels). Electric lock with single-cylinder.			-230
	Accessories 002LB18 001LOCK81	Casing with emergency card, fitted to house thr (for ZL170N and ZL19N control panels). Electric lock with single-cylinder.			-2410
	Accessories 002LB18 001LOCK81	Casing with emergency card, fitted to house thr (for ZL170N and ZL19N control panels). Electric lock with single-cylinder.			-2410
	Accessories 002LB18 001LOCK81 001LOCK82	Casing with emergency card, fitted to house thr (for ZL170N and ZL19N control panels). Electric lock with single-cylinder. Electric lock with double-cylinder.	ee 12V - 7 Ah batteries		-2400
	Accessories 002LB18 001LOCK81	Casing with emergency card, fitted to house thr (for ZL170N and ZL19N control panels). Electric lock with single-cylinder.	ee 12V - 7 Ah batteries		-231
	Accessories 002LB18 001LOCK81 001LOCK82	Casing with emergency card, fitted to house thr (for ZL170N and ZL19N control panels). Electric lock with single-cylinder. Electric lock with double-cylinder.	ee 12V - 7 Ah batteries		-231
	Accessories 002LB18 001LOCK81 001LOCK82	Casing with emergency card, fitted to house thr (for ZL170N and ZL19N control panels). Electric lock with single-cylinder. Electric lock with double-cylinder.	ee 12V - 7 Ah batteries		
	Accessories 002LB18 001LOCK81 001LOCK82 001F1001	Casing with emergency card, fitted to house thr (for ZL170N and ZL19N control panels). Electric lock with single-cylinder. Electric lock with double-cylinder. Straight telescopic transmission arm for up to 2	ee 12V - 7 Ah batteries m / 6'6" long gate leaves		
	Accessories 002LB18 001LOCK81 001LOCK82	Casing with emergency card, fitted to house thr (for ZL170N and ZL19N control panels). Electric lock with single-cylinder. Electric lock with double-cylinder. Straight telescopic transmission arm for up to 2 Safety casing complete with release handle and	ee 12V - 7 Ah batteries m / 6'6" long gate leaves		
	Accessories 002LB18 001LOCK81 001LOCK82 001F1001	Casing with emergency card, fitted to house thr (for ZL170N and ZL19N control panels). Electric lock with single-cylinder. Electric lock with double-cylinder. Straight telescopic transmission arm for up to 2	ee 12V - 7 Ah batteries m / 6'6" long gate leaves		-230
	Accessories 002LB18 001LOCK81 001LOCK82 001F1001	Casing with emergency card, fitted to house thr (for ZL170N and ZL19N control panels). Electric lock with single-cylinder. Electric lock with double-cylinder. Straight telescopic transmission arm for up to 2 Safety casing complete with release handle and	ee 12V - 7 Ah batteries m / 6'6" long gate leaves		
	Accessories 002LB18 001LOCK81 001LOCK82 001F1001	Casing with emergency card, fitted to house thr (for ZL170N and ZL19N control panels). Electric lock with single-cylinder. Electric lock with double-cylinder. Straight telescopic transmission arm for up to 2 Safety casing complete with release handle and	ee 12V - 7 Ah batteries m / 6'6" long gate leaves		
	Accessories 002LB18 001LOCK81 001LOCK82 001F1001 001H3000	Casing with emergency card, fitted to house thr (for ZL170N and ZL19N control panels). Electric lock with single-cylinder. Electric lock with double-cylinder. Straight telescopic transmission arm for up to 2 Safety casing complete with release handle and L = 5 m / 16'4".	ee 12V - 7 Ah batteries m / 6'6" long gate leaves		
	Accessories 002LB18 001LOCK81 001LOCK82 001F1001	Casing with emergency card, fitted to house thr (for ZL170N and ZL19N control panels). Electric lock with single-cylinder. Electric lock with double-cylinder. Straight telescopic transmission arm for up to 2 Safety casing complete with release handle and	ee 12V - 7 Ah batteries m / 6'6" long gate leaves		
	Accessories 002LB18 001LOCK81 001LOCK82 001F1001 001H3000	Casing with emergency card, fitted to house thr (for ZL170N and ZL19N control panels). Electric lock with single-cylinder. Electric lock with double-cylinder. Straight telescopic transmission arm for up to 2 Safety casing complete with release handle and L = 5 m / 16'4".	ee 12V - 7 Ah batteries m / 6'6" long gate leaves		
	Accessories 002LB18 001LOCK81 001LOCK82 001F1001 001H3000 BAT3PK	Casing with emergency card, fitted to house thr (for ZL170N and ZL19N control panels). Electric lock with single-cylinder. Electric lock with double-cylinder. Straight telescopic transmission arm for up to 2 Safety casing complete with release handle and L = 5 m / 16'4". Set of 3 12V - 7Ah batteries.	ee 12V - 7 Ah batteries m / 6'6" long gate leaves		
	Accessories 002LB18 001LOCK81 001LOCK82 001F1001 001H3000	Casing with emergency card, fitted to house thr (for ZL170N and ZL19N control panels). Electric lock with single-cylinder. Electric lock with double-cylinder. Straight telescopic transmission arm for up to 2 Safety casing complete with release handle and L = 5 m / 16'4". Set of 3 12V - 7Ah batteries. Access control pages 160-165	ee 12V - 7 Ah batteries m / 6'6" long gate leaves		
	Accessories 002LB18 001LOCK81 001LOCK82 001F1001 001H3000 BAT3PK	Casing with emergency card, fitted to house thr (for ZL170N and ZL19N control panels). Electric lock with single-cylinder. Electric lock with double-cylinder. Straight telescopic transmission arm for up to 2 Safety casing complete with release handle and L = 5 m / 16'4". Set of 3 12V - 7Ah batteries.	ee 12V - 7 Ah batteries m / 6'6" long gate leaves		



Swing gate operators

Sturdy & powerful.

Ati is the perfect operator for medium to large swing gates. It is powerful and versatile, does not require excessive periodic maintenance. It can also be used under intense duty conditions such as in apartment blocks, company facilities or other multi user environments.



Practical and safe. The easily operated release system is readily accessible. It is secure, protected from the elements and provides simple operation during power cuts.

The 24V D.C. electronics. The ZL180 control panel can be integrated with LB180 card allowing emergency function via batteries (optional extra) during a power cut. The amperometric detection function if needed stops or inverts the direction of motion.



The new ZM3E control panel is fitted with "self-diagnosis" of their protective devices connected up to the system.







The 24V D.C. models together with the dedicated ZL180 panel constantly controls the gate movement allowing for safe movement, in compliance with EU standards.

for gate leaves of up to 3 - 5 m for gate leaves of up to 10 - 16 ft



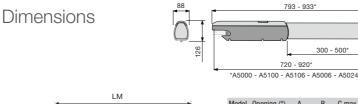
Advantages of Ati

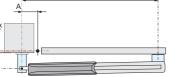
Sturdy, compact and dependable, it is the perfect operator for swing gates of considerable size.

With precise attention to detail, every aspect of the Ati range of motors has been developed to provide maximum usability. It can be used under intense duty conditions such as in apartments, company facilities and other high-traffic environments.

A totally reliable automation system, that requires few alterations to existing gates or excessive on-going periodic maintenance.

Limits to use	A3(000 - A3100 - A3	3106 - A3006 -	A3024N	_
Max width of gate leaf (m / ft)			3	2.5	2
Max weight of gate leaf (Kg)			400	600	800
Model		A5000 - A5	100 - A5106 - A	A5006 - A5024N	l i
Max width of gate leaf (m)	5	4	3	2.5	2
Max weight of gate leaf (Kg)	400	500	600	800	1,000
				🔵 230V A	.C. 🔵 24V I





	● 200V A.O. ● 24V D.O.
r	793 - 933*
	300 - 500*
	720 - 920* *A5000 - A5100 - A5106 - A5006 - A5024N
	Model Opening (°) A B C max LM ATI 3m (A3000 - A3100 - A3000A - A3024N) -



Technical features

IECHINGAI IEALUIES			
Туре	A3000A - A3100 / A5000A - A5100	A3006 - A3106 / A5006 - A5106	A3024N - A5024N
Protection rating	IP44	IP44	IP44
Power supply (V) (50/60Hz)	230 A.C.	230 A.C.	230 A.C.
Motor power supply (V)	230 A.C. 50/60 Hz	230 A.C. 50/60 Hz	24 D.C.
Current draw (A)	1,2	1,2	10 Max
Power (W)	150	150	120
90° opening time (s)	19 / 32	28 / 45	Adjustable
Duty cycle (%)	50	50	Intensive Use
Thrust (N)	400 - 3000	400 - 3000	400 - 3000
Operating temperature (°C/°F)		-20 °C to 55 °C -4 °F to 131 °F	
Motor's thermo-protection (°C/°F)	150/302	150/302	-
			🗢 230V A.C. 🕒 24V D.C

The complete range

230V A.C. external operators

	001 A3000A	Self-locking operator for gate leaves of
	001 A3100	Reversible operator for gate leaves of u
	001 A3006	Self-locking operator for gate leaves of
8	001 A3106	Reversible operator for gate leaves of u
	001 A5000A	Self-locking operator for gate leaves of
	001 A5100	Reversible operator for gate leaves of u
	001 A5006	Self-locking operator for gate leaves of
	001 A5106	Reversible operator for gate leaves of u
``	230V A.C. co	ntrol panels
_	002 ZA3N	Multifunction control panel with built-in
=	002 ZM3E	Multifunction control panel with signall built-in radio decoder.
-		
	24V D.C. exte	rnal operators and control panel (min gate
\$	24V D.C. exter 001A3024N	rnal operators and control panel (min gate Self-locking operator for gate leaves of
\$		· · · · · · · · · · · · · · · · · · ·
3	001 A3024N	Self-locking operator for gate leaves of
3	001 A3024N 001 A5024N	Self-locking operator for gate leaves of Self-locking operator for gate leaves of
	001 A3024N 001 A5024N 002 ZL180	Self-locking operator for gate leaves of Self-locking operator for gate leaves of
	001A3024N 001A5024N 002ZL180 Accessories	Self-locking operator for gate leaves of Self-locking operator for gate leaves of Control panel for two-leaf swing gates w Card for connecting two 12V – 1.2Ah er
	001A3024N 001A5024N 002ZL180 Accessories 002LB180	Self-locking operator for gate leaves of Self-locking operator for gate leaves of Control panel for two-leaf swing gates w Card for connecting two 12V – 1.2Ah er for ZL180 control panel. (use with BAT2
	001A3024N 001A5024N 002ZL180 Accessories 002LB180 001LOCK81	Self-locking operator for gate leaves of Self-locking operator for gate leaves of Control panel for two-leaf swing gates w Card for connecting two 12V – 1.2Ah er for ZL180 control panel. (use with BAT2 Electric lock with single cylinder.
	001A3024N 001A5024N 002ZL180 002LB180 001LOCK81 001LOCK82	Self-locking operator for gate leaves of Self-locking operator for gate leaves of Control panel for two-leaf swing gates w Card for connecting two 12V – 1.2Ah er for ZL180 control panel. (use with BAT2 Electric lock with single cylinder. Electric lock with double cylinder.

Access control pages 160-165 Accessories Safety pages 166-175 Radio control pages 176-189





f up to 3 m / 10 ft (opening time 90° 19s).

up to 3 m / 10 ft (opening time 90° 19s).

f up to 3 m / 10 ft (opening time 90° 28s).

up to 3 m / 10 ft (opening time 90° 28s).

f up to 5 m / 16 ft (opening time 90° 32s).

up to 5 m / 16 ft (opening time 90° 32s).

f up to 5 m / 16 ft (opening time 90° 45s).

up to 5 m / 16 ft (opening time 90° 45s).

radio decoder.

lling display, auto-diagnosis of safety devices and

te leaf width = 1.5 m / 4'9" ft)

f up to 3 m / 10 ft (adjustable 90° opening time).

f up to 5 m / 16 ft (adjustable 90° opening time).

with built-in radio decoder.

emergency batteries with rack 2PK, see AMICO accessories)



Krono Swing gate operators

CAME, great reliability and efficiency. A complete range of swing gate operators in the best of CAME tradition; sturdy and silent. The ideal solution for prestigious gates integrating harmony, aesthetics and functionality. An extremely robust, simple and flexible solution.



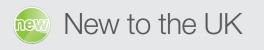
Simple Adjustments The endstop micro-switches allow for quick, precise adjustment of the gates position while opening or closing.

New generation control panels. The new ZM3E control panel comes with a display which shows the selfdiagnosing functions of any safety devices connected to the system.

Perfect integration. Its arced shape and coated finish make Krono suited to even the most demanding architectural contexts.







The Krono motor is now available in a 5m version. This new model is ideal for automating larger or heavier gates and brings with it everything users have come to expect from the Krono motor.

for gate leaves of up to 3 - 5 m for gate leaves of up to 10 - 16 ft



Advantages of Krono

Manufactured in aluminium, the Krono provides constant robust and reliable operation.

In two versions, the Krono can be installed on gate leaves of up to 3 or 5 metres wide.

Motors can also feature micro-switches for adjusting the endstops both in opening and closing.

•••						
	Limits to use					
	Model		R300D - KR300	S - KR310D - KI	R310S	
	Max width of gate leaf (m)			3	2.5	2
	Max weight of gate leaf (Kg)			400	600	800
	Model			KR510D - KR5	10S	
	Max width of gate leaf (m)	5	4	3	2.5	2
	Max weight of gate leaf (Kg)	400	500	600	800	1,000
54						• 230V A.C.
δ.					LM	
	Dimensions			Π		•
		194	A.I.I.V.	<u>N</u>	-	304 - 504
		~		_		i
		┥				
			1	13 🖡		

Model Opening (°) A B C max LM

910

1310

130 110 50 910

130 110 50 1310

130 130 60

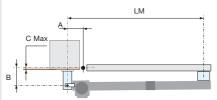
130 130 60

909

120°

90°

120°



Dimensions in millimetres (25.4 mm = 1 in)

lechnical features		
Туре	KR300D - KR300S - KR310D- KR310S	KR510D - KR510S
Protection rating	IP54	IP54
Power supply (V) (50/60Hz)	230 A.C.	230 A.C.
Motor power supply (V) (50/60 Hz)	230 A.C.	230 A.C.
Current draw (A)	1.1	1.1
Power (W)	130	130
90° opening time (s)	22	34
Duty cycle (%)	30	30
Thrust (N)	400 - 3000	400 - 3000
Operating temperature (°C/°F)	-20 °C to 55 °C	-4 °F to 131 °F
Motor's thermo-protection (°C/°F)	150/302	150/302
		230V Δ C

The complete range

230V A.C. external operators

001 KR300D	Right-hand self-locking operator for gate leaves of up to 3 m / 10 ft.	
001 KR300S	Left-hand self-locking operator for gate leaves of up to 3 m / 10 ft.	
001 KR310D	Right-hand self-locking operator with built-in gate-leaf stop microswitches, for leaves of up to 3 m / 10 ft.	
001 KR310S	Left-hand self-locking operator with built-in gate-leaf stop microswitches, for leaves of up to 3 m / 10 ft.	
001 KR510D	Right-hand self-locking operator with built-in gate-leaf stop microswitches, for gate leaves of up to 5 m / 16 ft.	
001 KR510S	Left-hand self-locking operator with built-in gate-leaf stop microswitches, for gate leaves of up to 5 m / 16 ft.	

230V A.C. control panels



002**ZA3N** Multifunction control panel with built-in radio decoder. 002**ZM3E** Multifunction control panel with signalling display, auto-diagnosis of safety devices and built-in radio decoder.

Accessories

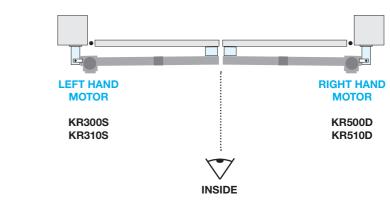


Lock cylinder with DIN key.

Krono Handing

Look at the gateway from the inside of the property looking out when choosing which Krono motor you require

OUTSIDE



Accessories

Access control pages 160-165 Safety pages 166-175 Radio control pages 176-189



Swing gate operators

Fast

The compact, versatile solution. The Fast is part of an innovative series of automation systems for swing gates. Powerful and versatile, it is specifically designed to be mounted on medium and large pillars.



Safe and practical. The convenient release lever enables manual opening of the gate in case of a power cut.

Advantages of the 24V D.C. electronics. The 24V-powered Fast electronics automatically recognises the interruption of electric power and activates the emergency batteries, so that the gate can always be opened and closed (optional extra).

Fast. Modern design thanks to the extreme attention to detail and choice of materials.







Fast 24V technology allows for total control of the gate movement. The new F7024N complies with European Standards regarding the impact forces generated during operation.

for gate leaves of up to 2.3 m for gate leaves of up to 7'5" ft

Advantages of Fast

EN

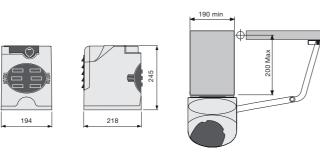
With its articulated transmission arms Fast is the new automation system for swing gates up to 2.3 m / 7'5" long.

Ideal for installation on medium and large pillars with straightforward hinge geometry.

The Fast is also available in the 24V version, to ensure a safe movement of the gate.

Limits to use)			
Model		F7000 - F	7001 - F7024N	
Max width of gate leaf (m)	2.3	2	1.5	1
Max weight of gate leaf (Kg)	200	215	250	300
			0 230	V A.C. • 24V D.C.

Dimensions



Dimensions in millimetres (25.4 mm = 1 in)

Tochnical foaturos

rechnical realures	
Туре	F7000 - F7001
Protection rating	IP54
Power supply (V) (50/60Hz)	230 A.C.
Motor power supply (V)	230 A.C. 50/60 Hz
Current draw (A)	1,4
Power (W)	160
90° opening time (s)	18
Duty cycle (%)	30
Torque (Nm)	180
Operating temperature (°C/°F)	-20 °C to
Motor's thermo-protection (°C/°F)	150/302

The complete range

230V A.C. external operators



(See p. 58 for control panel functions) Self-locking operator complete with articulated transmission arm.

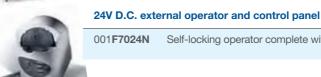
230V A.C. control panels

002**ZA3N** Multifunction control panel with built-in radio decoder.

002**ZM3E**



built-in radio decoder



001 F7024N Self-locking operator complete with articulated transmission arm.



002**ZL180** Control panel for two-leaf swing gates with built-in radio decoder.

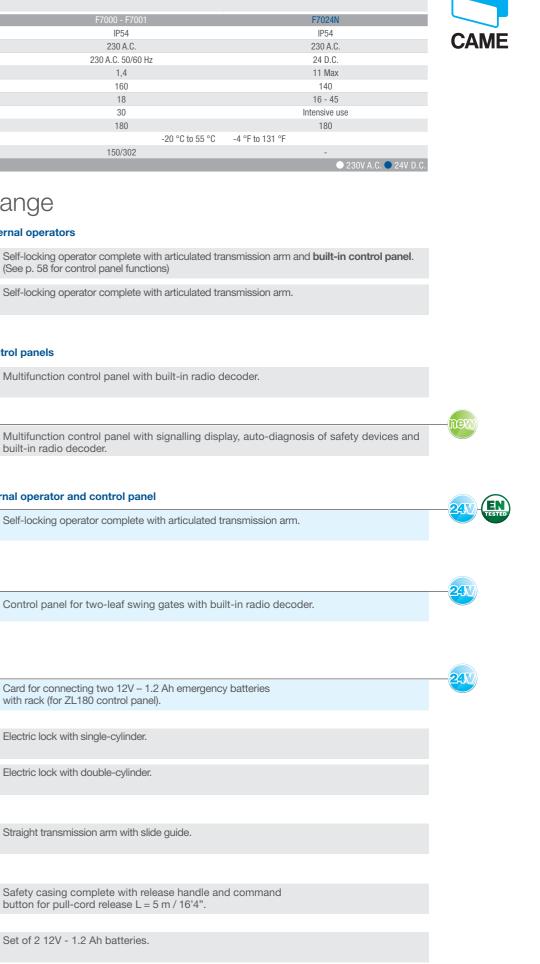
Accessories

Card for connecting two 12V – 1.2 Ah emergency batteries with rack (for ZL180 control panel). 002**LB180** 001LOCK81 Electric lock with single-cylinder. 001LOCK82 Electric lock with double-cylinder. 001**F7002** Straight transmission arm with slide guide. Safety casing complete with release handle and command 001 H3000 button for pull-cord release L = 5 m / 16'4".

Set of 2 12V - 1.2 Ah batteries. BAT2PK

Accessories

Access control pages 160-165 Safety pages 166-175 Radio control pages 176-189



SWING GATE OPERATORS

Fast



Safety and design.

Amico encoder controlled operator. Coupled with the ZL90 control panel, it makes it possible to install systems which are compliant with European standards for the maximum impact forces generated by gate movement.



Encoder technology The encoder is constantly monitoring and controlling the gate movement allowing for total safety.

Easy gate-run adjustments Amico automatically manages the opening and closing endpoint adjustments. The final adjustment takes place during the initial installation testing phase, and through the positioning of mechanical stops.

Easy connections. With the Amico you need just one three-core cable to connect the motors and to manage endstops.

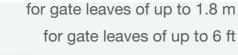




Max weight of gate leaf (Kg) 250



The AMICO range has been expanded with a 230v motor which, combined with a ZA3N control panel will provide you with all the features you are used to.



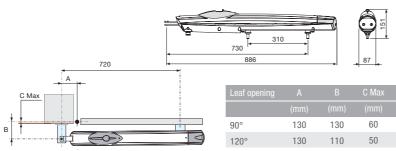
Advantages of Amico

An electromechanical motor that comprises all of CAME's design experience and technology. With encoder control of impact forces, coupled with the ZL90 control panel, it makes it possible to install systems which are fully compliant with European standards regarding the maximum impact forces generated by gate movement.

The ZL90 latest generation control panel is fitted with a led-monitored, self-diagnosing function and is designed to be connected to motors using a three-core cable.

Limits to use			
Model		A1824 - A18230	
Max width of gate leaf (m)	1	1.5	1.8
Max weight of gate leaf (Kg)	250	215	200
			● 230V A.C. ● 24V D.C.

Dimensions



Technical features

iechnical leatures		
Туре	A1824	
Protection rating	IP44	
Power supply (V) (50/60Hz)	230 A.C.	
Motor power supply (V)	24 D.C.	
Current draw (A)	4 Max	
Power (W)	100	
90° opening time (s)	Adjustable	
Duty cycle (%)	Intensive use	
Thrust (N)	400 - 2000	
Operating temperature (°C/°F)	-20 °C to 55 °C -4 °F to 131 °F	

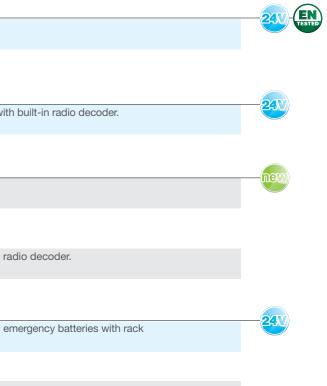
The complete range

1	001 A1824	Self-locking operator with encoder.
0		
	24V D.C. contr	rol panels
	002 ZL90	Control panel for two-leaf swing gates with
	230V A.C. exte	ernal operators
1	001 A18230	230v A.C. self-locking motor
C/	230V A.C. con	trol panels
4 •)	002 ZA3N	Multifunction control panel with built-in ra
B	Accessories	
	002 LB90	Card for connecting up two 12V - 1.2Ah er
	BAT2PK	Set of 2 x 12V - 1.2 Ah batteries.

Accessories



A18230
IP44
230 A.C.
230 A.C.
1.2
80
19
50
400 - 2000
-20 °C to 55 °C -4 °F to 131 °F
● 230V A.C. ● 24V D.C.



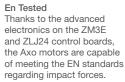
Swing Gate Operators Supreme Reliability.

The new Axo range features a comprehensive series of motors suitable for a multitude of applications. Features include built in end stop adjustment and with the ZM3E and ZLJ24 control panels, full euronorm compliance in both 230v and 24v versions.



Advanced modern design. The new aesthetic of the Axo range meets the expectations of the modern consumer. The models are contained within 2 casing forms.

Encoder technology The encoder is constantly monitoring and controlling the gate movement allowing for complete safety.









Axo technology allows for total control of the gate movement. The new range is capable of complying with European Standards regarding the impact forces generated during operation.



for gate leaves of up to 7 m for gate leaves of up to 23 ft

Advantages of Axo

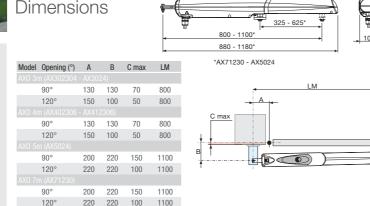
The Axo range has a motor suitable for any application. From 230v residential uses on smaller gates to opening exceedingly heavy or large gates.

Combined with the functionality of the ZM3E control panel, the Axo range offers a vast array of functions and is capable of meeting the EN Standards straight out of the box.

Limits to use			
Model	AX302304	- AX3024	
Max width of gate leaf (m)	2	2.5	3
Max weight of gate leaf (Kg)	800	600	500
Model			

IVIOUEI							
Max width of gate leaf (m)	2	2.5	3	4			
Max weight of gate leaf (Kg)	800	600	500	300			
Model	AX5024						
Max width of gate leaf (m)	2	2.5	3	4	5		
Max weight of gate leaf (Kg)	1000	800	700	500	400		
Model							
Max width of gate leaf (m)	2	2.5	3	4	5	6	7
Max weight of gate leaf (Kg)	1000	800	700	500	400	350	300
					23	30V A.C. 🤇	24V D.C.

NOTES: if the gate leaf is wider than 2.5 m / 8'2" ft, the Axo models require an electric lock to be installed. An electric lock is always required for the AX71230 model



Above measurements in mm.

Technical feature	es				
Туре	AX302304	AX402306-AX412306	AX71230	AX3024	AX5024
Protection Rating	IP44	IP44	IP44	IP44	IP44
Power supply (V) (50/60Hz)	230 A.C.	230 A.C.	230 A.C.	230 A.C.	230 A.C.
Motor power supply (V)	230 A.C.	230 A.C.	230 A.C.	24 D.C.	24 D.C.
Current Draw (A)	1.5	1.5	1.5	10 MAX	10 MAX
Power (W)	175	175	175	120	120
90° opening time (s)	20	28	40	Adjustable	Adjustable
Duty cycle (%)	50	30	30	Intensive use	Intensive use
Thrust (N)	500 - 4500	500 - 4500	500 - 4500	500 - 4500	500 - 4500
Operating temperature (°C)	-20 - +55	-20 - +55	-20 - +55	-20 - +55	-20 - +55
					○ 230V A.C. ● 24V D.C.

The complete range

230V A.C. external operators

001AX302304 Self-locking operator for gate leaves of up to 3 m / 10 ft. (opening time 90° 20s) 001AX402306 Self-locking operator for gate leaves of up to 4 m / 13 ft. (opening time 90° 28s) 001AX412306 Reversible operator for gate leaves of up to 4 m / 13 ft. (opening time 90° 28s) 001AX71230 Reversible operator for gate leaves of up to 7 m / 22'9" ft. (opening time 90° 40s)

230V A.C. control panels



Multifunction control panel with signalling display, auto-diagnosis of safety devices and built-in radio decoder.

24V D.C. external operators

1	001 AX3024	Self-locking operator for gate leaves of up (opening time 90° adjustable)
1	001 AX5024	Self-locking operator for gate leaves of up (opening time 90° adustable)
	24V D.C. con	trol panels
	002 ZLJ24	Control panel for two-leaf swing gates with b
-		
	Accessories	
C	002 LB180	Card for connecting two 12V – 1.2Ah emerge
. 0	001 LOCK81	Electric lock with single cylinder.
the second se		

001LOCK82 Electric lock with double cylinder.

Set of 2 x 12V - 1.2 Ah batteries. BAT2PK

Accessories

Access control pages 160-165 Safety pages 166-175 Radio control pages 176-189





n to 3 m / 10 ft	-24V-EN
p to 5 m / 16'4" ft.	U-24V-(LEN) TESTED
built-in radio decoder.	-230
	-241
gency batteries.	

Axo

Flex Swing gate operators

Capable of mounting to posts as small as 8cm. Flex, the operator designed for small swing gates, it needs very little space to be installed and fits even when the pillars are right-up against a wall or fence. It is the ideal solution to manage pedestrian passages in residential or apartment settings.



Straight Arm Option The standard F510 model comes with a straight transmission arm and slide-guide for applications where space is truly minimum such as when the gate is right up against a fence.

24V D.C. electronics The Flex motors, run on 24V of continuous current to give maximum guarantee of safety to the user at all times.



Ready-to-use and sensitive. Even the slightest obstacle will trigger the gate stopping function contained on the Flex models.





The Flex series together with the ZL160N control panel constantly controls the gate movement allowing for safe operation, and is EU standard EN12453 and EN12445 compliant.

for gate leaves of up to 1.6 m for gate leaves of up to 5'2" ft



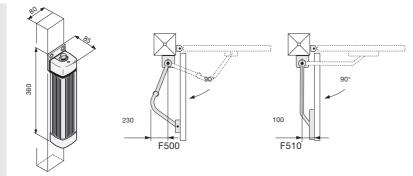
Advantages of Flex

EN

Extremely compact and a simple, versatile product. Flex is also available with a "slide arm" option, when reduced space or adjacent wall require such a solution. The electronics in the Flex system accept an add-on emergency battery back-up device for power cuts. The batteries are recharged automatically during normal operation.

Limits to us	e		
Model		F500 - F510	
Max width of gate leaf (cm)	160	120	80
Max weight of gate leaf (Kg) 100	125	150 / 330
2			• 24V D.C.

Dimensions



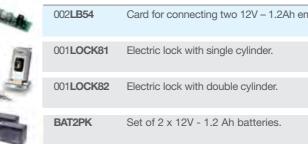
Accessories

Access control pages 160-165 Safety pages 166-175 Radio control pages 176-189

echnical features	
ptection rating	
wer supply (V) (50/60Hz)	
otor power supply (V)	

Technical f	features			
Туре		F500	F510	
Protection rating		IP54	IP54	
Power supply (V) (50/60	Hz)	230 A.C.	230 A.C.	CAME
Motor power supply (V)		24 D.C.	24 D.C.	
Current draw (A)		2 Max	2 Max	
Power (W)		48	48	
90° opening time (s)		13	9	
Duty cycle (%)		Intensive use	Intensive use	
Torque (Nm)		100	100	
Operating temperature ((°C/°F)	-20 °C to 55 °C		
The cor	nplete i	range	● 24V D.	<u>C.</u>
		rnal operators		
e>	001 F500	Reversible operator with articulated transmission	on arm.	
1	-			
	001 F510	Reversible operator with straight transmission a	arm and slide guide.	2410
	24V D.C. con 002ZL160N	trol panels Control panel for single-leaf swing gates with b obstacle detection device.	uilt-in radio decoder and amperometric	241
9 -1	002 ZL150N	Control panel for two-leaf swing gates with buil	It-in radio decoder.	-241
	Accessories			
No. of Concession, Name	002 LB54	Card for connecting two 12V – 1.2Ah emergene	cy batteries.	
	001LOCK81	Electric lock with single cylinder.		
and	001LOCK82	Electric lock with double cylinder.		
	BAT2PK	Set of 2 x 12V - 1.2 Ah batteries.		





Flex

Swing gate operators

Invisible power!

Superfrog is an underground electromechanical operator, engineered and built by CAME to operate uncommonly large and heavy swing gates. Superfrog, for "super-sized" gates!



It withstands anything! The carefully chosen materials and the high protection from environmental agents ensure that Superfrog will last and last with little periodic maintenance.

Extremely sturdy. Superfrog is a system which features exceptional force and extreme mechanical sturdiness.



Multiple Applications. Among the different application options, Superfrog can be installed on the large doors of aeroplane hangers.





Superfrog is powered by a 230-400V A.C. 3-phase which provides maximum thrust and minimal energy consumption. The 3-phase power supply also provides optimal current when operating helping to solve problems with inertia on large swing gates.

for gate leaves of up to 8 m for gate leaves of up to 26 ft

Toobaical footuraa

lechnical features	
Туре	FROG-MD/MS
Protection rating	IP67
Power supply (V) (50/60Hz)	230-400 A.C. 3-phase
Motor power supply (V) (50/60Hz)	230-400 A.C. 3-phase
Current draw (A)	2.5 max
Power (W)	600
95° Max opening time (s)	45
Duty cycle (%)	50
Torque (Nm)	1000
Operating temperature (°C/°F)	-20 °C to 55 °C -4 °F to 131 °F
	🔍 230-400V A.C. 3-phas

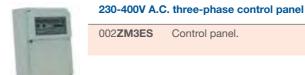
The complete range

230-400V A.C. 3-phase underground operators



001 FROG-MS Left-hand self-locking operator.

001 FROG-MD Right-hand self-locking operator.



002**ZM3ES** Control panel.

Foundation cases

001FROG-CD Foundation case for right-hand operator.

001FROG-CS Foundation case for left-hand operator.

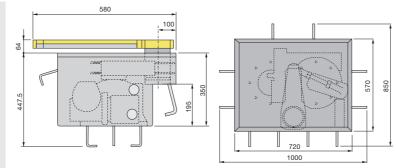
Advantages of Superfrog

This is the underground operator for very large swing gates. Made of the highest quality materials, the Superfrog is unmatched when it comes to power. The motor can also operate very large swing doors, such as those found on hangars, or even special doors installed in large industrial facilities or freight depots.

)					
		FROG-N	/ID/MS		
<4	4	5	6	7	8
1.500	1,200	1,000	800	700	600
				• 230-400V	A.C. 3-phase
	<4 1.500	<4 4	FROG-M <4 4 5	FROG-MD/MS <4 4 5 6	FROG-MD/MS <4 4 5 6 7

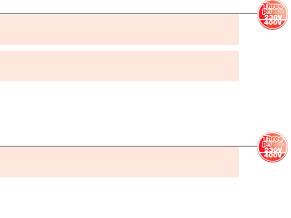
Dimensions

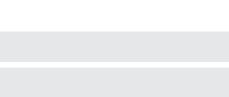
Dimensions in millimetres (25.4 mm = 1 in)



Accessories

Access control pages 160-165 Safety pages 166-175 Radio control pages 176-189





SWING GATE OPERATORS

Z230 230V A.C. Control panels

New generation technology. The new generation of CAME control panels for swing gates, able to meet all application contexts. In all of the versions the logic is handled by a MICROPROCESSOR-operated command and control system. The control units are already fitted with built-in "radio decoders"; all you need to do is insert one of CAME's cards matched to the required frequency.

Maximum useful space for electrical connections. CAME's casings are designed to make it easy to perform all system wiring operations, as well as any subsequent maintenance.

Right or left door. The bilaterally-hinged door and technical sheet rack are just some of the features that make CAME containers extremely practical and easy to use.

Auto test.

Some models are fitted with "self-diagnosis" of their protective devices. The circuit prevents the operator from working in case any anomaly is detected in one of the safety devices which is connected up to the system.

Better when illuminated! Through the control panels. vou can control the auxiliary lighting of the driveways surrounding area. This feature makes it safer and easier to use the entrance.



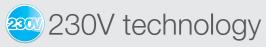


Advantages of control panels (230V A.C.)

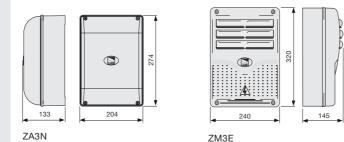
Following are some technical characteristics:

- STANDARDISATION across the entire range makes commissioning a CAME
- control panel quicker, easier and safer.
- RELIABILITY is one of the main characteristics of a CAME control panel.
- BUILT-IN RADIO DECODING, directly on the electronic card. A feature
- that blends savings and ease-of-installation. All you need to do is choose and install one of CAME's radio frequency cards that has the required frequency.
- BUILT-IN SURGE ARRESTERS ON THE ELECTRONIC CARDS, as a further, effective protection against those damaging power surges that go to and from the electric circuit.
- ZM3E CONTROL BOARD, with its advanced technology, makes it possible to automate any 230V system, even on outdated systems or ones assembled with a variety of materials.

Dimensions



CAME's 230V control panels are fitted with surge protectors and integrate the standard radio decoder on all models.



The con	nplete range
1100 - 12	230V A.C. control panels for 230V A.C. operators



Technical features

Operating temperature (°C/°F)

Type Protection rating

Material

Multifunction control panel with built-in radio decoder.



Multifunction control panel with signalling display, auto-diagnosis of safety devices and built-in radio decoder

Accessories

Access control pages 160-165 Safety pages 166-175 Radio control pages 176-189

Dimensions in millimetres (25.4 mm = 1 in)

0		Z230
		IP54
CAME		ABS
-4 °F to 131 °F	-4 °F to 131 °F	-20 °C to 55 °C
• 230V A.C.	● 230V A.C.	



Z230

Control panels

Standard issue safety.

The CAME 24V control boards are the ideal solution for creating perfectly personalised automated systems according to user and gate requirements, paying particular attention to safety. The technology used allows for the motors and all system-connected accessories to be managed in low-voltage 24V DC. The special characteristics of these boards also make provision for batterypowered automation without mains power, to allow for operation even during power cuts.

Maximum sensitivity. The adjustment of the amperometric sensor through the dedicated trimmers, makes the 24V systems safer and more reliable, should the gate strike an obstacle while in motion.

Simplified connections. With the ZL170N, ZL180 and ZL90 control panels. only one cable needs to be connected to three conductors to power the motor, and to manage the decelerations and endstops

Autotest.

Some models are fitted with "self-diagnosis" of their protective devices. The circuit prevents the operator from working in case any anomaly is detected in one of the safety devices which is connected up to the system.

Rechargeable batteries. All of the 24V control panels can be integrated with emergency operation cards that run on regular rechargeable batteries The change-over from mains to batteries is controlled automatically.





Thanks to the 24V panels, EN tested systems restrict forces to ensure automated systems are always perfectly compliant with current EU standards (see technical specifications for each model).



Advantages of control panels (24V D.C.)

Following are some technical characteristics:

• AMPEROMETRIC DEVICE featuring an "anti-crushing" function that electronically detects any obstacles and stops or reverses the movement of the gate.

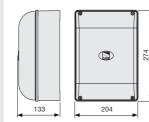
 EMERGENCY BATTERIES connected to the control panel through the recharging and operation card. During a power cut the batteries automatically take over powering of the gate.

• ADJUSTING DECELERATION SPEED OF THE GATE LEAVES, when opening or closing, to calibrate movement to the gate's requirements and make it safer and softer in the final phase of its opening or closing swing.

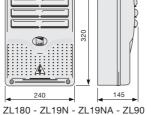
• INTENSIVE USE, thanks to the technology employed, the 24V systems can work frequent opening/closing cycles without any overheating issues. They are the most suitable solution for apartment, industrial, and hightraffic settings.

 MAXIMUM SAFETY, thanks to the low-voltage operation of all accessory devices, such as, photocells, flashing lights, sensitive safety edges.

Dimensions



ZL150N - ZL160N - ZL170N



Dimensions in millimetres (25.4 mm = 1 in)

Technical features

Type Protection rating Material Operating temperature		Z24 IP54 ABS -20 °C to 55 °C -4 °F to 131 °F	● 24V D.C.	CAME
The cor	-	range Introl panels for 24V D.C. operators		-27V-EN
	002 ZL150N	Control panel for two-leaf swing gates with built-in radio decoder for Flex series.		
	002 ZL160N	Control panel for one-leaf swing gates with built-in radio decoder for Flex series.		
	002 ZL170N	Control panel for one-leaf swing gates with built-in radio decoder for Flex - Frog series.		
	002 ZL180	Control panel for two-leaf swing gates with built-in radio decoder for Fast - Ati series.		
10 T (1)	002 ZL19N	Control panel for two-leaf swing gates with built-in radio decoder for Frog – Ferni series.		

			• 24V D.C.
The cor	nplete	range	
	24V D.C. co	ntrol panels for 24V D.C. operators	
14-10	002 ZL150N	Control panel for two-leaf swing gates with built-in radio decoder	241
E-		for Flex series.	
-			
	002 ZL160N	Control panel for one-leaf swing gates with built-in radio decoder	24.1
		for Flex series.	
			200
	002 ZL170N	Control panel for one-leaf swing gates with built-in radio decoder for Flex - Frog series.	
	002 ZL180	Control panel for two-leaf swing gates with built-in radio decoder for Fast - Ati series.	
A COLOR			
1.1. 1.	002 ZL19N	Control panel for two-leaf swing gates with built-in radio decoder	230
		for Frog – Ferni series.	
H			
	002 ZL90	Control panel for two-leaf swing gates with built-in radio decoder	
ACCOUNT OF A		for Frog-J – Amico series.	



Access control pages 160-165 Safety pages 166-175 Radio control pages 176-189

Z24







Sliding gate operators



SLIDING GATE OPERATORS

The range

The models

The convenience of sliding automatic gates is making them an increasingly popular choice throughout the market. This is due to their user-friendliness and reduced use of space. CAME offers several solutions suitable for small as well as large sliding gates, like those installed in apartment blocks, industrial facilities or high-traffic premises in general. The table below sums up the complete range of motors for sliding gates depending on their performance levels, limits to use and suggested application.

Use		RESIDENTIAL	APARTMENT BLOCKS	INDUSTRIAL	INTENSIVE USE
		G			R
Series	Model		Max weight of gate leaf (Kg	1)	
Bx-243	BX-243	300			YES
Bx-243	Bx-243C	300			YES
Bx	BX-74	400	400		
Bx	BX-246	600	600	600	YES
Bx	BX-P	600	600		
Bx	BX-78	800	600		
Bx	BX-10	800	600		
Bk	BK-800	800	800	800	YES
Bk	BK-1200	1,200	1,200	1,200	
Bk	BK-1200P	1,200	1,200	1,200	
Bk	BKE-1200	1,200	1,200	1,200	
Bk	BK-1800	1,800	1,800	1,800	
Bk	BKE-1800	1,800	1,800	1,800	
Bk	BK-2200		2,200	2,200	
Bk	BKE-2200		2,200	2,200	
Bk	BK-2200T		2,200	2,200	
By-3500T	BY-3500T		3.500	3.500	
			•	230V A.C. 🔵 24V D.C.	🖲 230-400V A.C. <u>3-pha</u>

Standard recommended installation Compliant with EN12453 and EN12445 safety norma

Standard RESIDENTIAL installation

TRAINED users and positioned on PUBLIC STREET

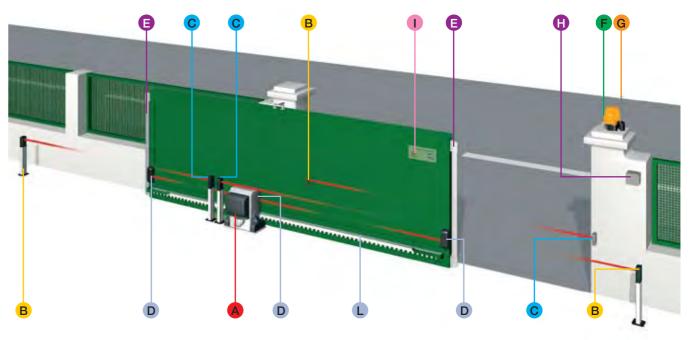
Remote controlled operation is often the desired activation method, this needs to be considered when choosing safety options. This safety should therefore be applied on both the so-called "primary edge" (i.e. the passage zone) and the "secondary edge" (the zone behind the gate leaf).

Current legislation requires the C + D type minimal solutions (ref. page 8): employing sensitive safety edges and infrared beam photocells.

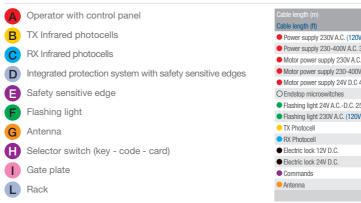


Important

If using EN12445 - EN12453 tested motors and control panels (highlighted with the green EN Tested mark), then sensitive safety edges need not be installed, provided that the required impact-force measurements (taken for each individual installation by the engineer responsible) are compliant with the parameters dictated by the Standards.



Standard issue



Integrate safety with Db + Df



CAME's integrated Db + Df system lets you monitor the passage zone and the area directly behind the sliding gates leaves. The infrared beam technology makes it possible to install sensitive safety edges without needing complicated cabling, thus inating any danger of crushing.

ans al during a second	



		< 32'8"		32'8" - 65'6"		65'6" - 98'4"
OV A.C.) 750W Max	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG14	3Gx1.5mm ²	3GxAWG14
. 3-phase 750W Max	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15
C. (120V A.C.) 750W Max	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG15
OV A.C. 3-phase 750W Max	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15
2400W Max	2Gx1.5mm ²	2GxAWG15	2Gx2.5mm ²	2GxAWG13	2Gx2.5mm ²	2GxAWG13
	*n°x0.5mm²	n°xAWG20	*nx0.5mm ²	n°xAWG20	*nx0.5mm ²	n°xAWG20
25W	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17
VA.C.) 25W	2x1.5mm ²	2xAWG15	2x1.5mm ²	2xAWG15	2x1.5mm ²	2xAWG15
	2x0.5mm ²	2xAWG20	2x0.5mm ²	2xAWG20	2x0.5mm ²	2xAWG20
	4x0.5mm ²	4xAWG20	4x0.5mm ²	4xAWG20	4x0.5mm ²	4xAWG20
	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1.5mm ²	2xAWG15
	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17
	*n°x0.5mm²	n°xAWG20	*n°x0.5mm²	n°xAWG20	*n°x0.5mm²	n°xAWG20
			RG58 Max 1	0m 32.8 ft		
		+ 0				

= see instructions
 European standards
 US standards

Lighting the way



Through the control panels, you can control the auxiliary lighting of the gates area of movement. This feature makes it safer and easier to use the entrance.

65

Standard INDUSTRIAL installation

TRAINED users and positioned in a PUBLIC STREET

Whenever possible, we suggest using 230-400V 3-phase systems to ensure greater control during working cycles. It is ideal for large gates such as those used in industrial applications. Remote controlled operation is often the desired activation method, this needs to be considered when choosing safety options. This safety should therefore be applied on both the so-called "primary edge" (i.e. the passage zone) and the "secondary edge" (the zone behind the gate leaf).

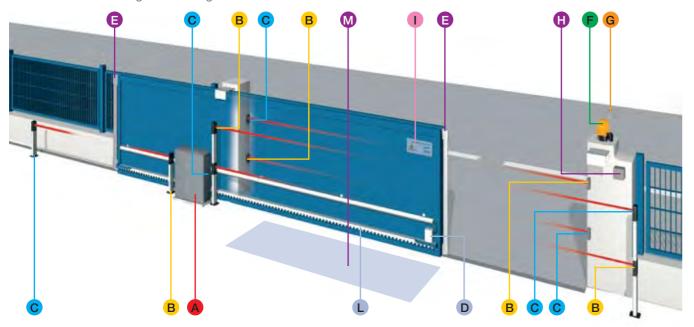
Current legislation requires the C + D type minimal solutions (ref. page 8):

employing sensitive safety edges and infrared beam photocells.

Important (EN

66

Industrial passages normally see heavy vehicle transit. In such cases it is always advisable to install infrared beam photocells at two different heights to prevent possible closing of the gate - if vehicles stop in the passage zone while loading or unloading.



Standard issue

	Operator with control panel	Cable length (m)	<10		10 - 20		20 - 30	
-		Cable length (ft)		< 32'8"		32'8" - 65'6"		65'6" - 98'4"
В	TX Infrared photocells	Power supply 230V A.C. (120V A.C.) 750W Max	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG14	3Gx1.5mm ²	3GxAWG14
	RX Infrared photocells	Power supply 230-400V A.C. 3-phase 750W Max	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15
U	nx initiated photocells	Motor power supply 230V A.C. (120V A.C.) 750W Max	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG15
D	Integrated protection system with safety sensitive edges	Motor power supply 230-400V A.C. 3-phase 750W Max	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15
		 Motor power supply 24V D.C 400W Max 	2Gx1.5mm ²	2GxAWG15	2Gx2.5mm ²	2GxAWG13	2Gx2.5mm ²	2GxAWG13
B	Safety sensitive edge	O Endstop microswitches	*n°x0.5mm ²	n°xAWG20	*nx0.5mm ²	n°xAWG20	*nx0.5mm ²	n°xAWG20
Ā	Fleebing light	 Flashing light 24V A.CD.C. 25W 	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17
F	Flashing light	 Flashing light 230V A.C. (120V A.C.) 25W 	2x1.5mm ²	2xAWG15	2x1.5mm ²	2xAWG15	2x1.5mm ²	2xAWG15
G	Antenna	TX Photocell	2x0.5mm ²	2xAWG20	2x0.5mm ²	2xAWG20	2x0.5mm ²	2xAWG20
<u> </u>		RX Photocell	4x0.5mm ²	4xAWG20	4x0.5mm ²	4xAWG20	4x0.5mm ²	4xAWG20
Ð	Selector switch (key - code - card)	 Electric lock 12V D.C. 	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1.5mm ²	2xAWG15
		 Electric lock 24V D.C. 	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17
U	Gate plate	 Commands 	*n°x0.5mm²	n°xAWG20	*n°x0.5mm ²	n°xAWG20	*n°x0.5mm ²	n°xAWG20
	Rack	Antenna			RG58 Max 1	0m 32.8 ft		
	TROM .			*N°	= see instruct	ions 🗨 Europea	an standards 🤇	US standards

Metal mass detector ground plate-sensor

24V guaranteed opening



CAME's range of sliding gates offers two 24V D.C. models. These motors can also run on emergency batteries, so that the gate will always open, even when the oower is out.

Total control



CAME sliding gate motors can be connected to many access control systems that can identify, memorise and allow entry/exit to authorised personnel. The equipment can be integrated with an access control system for specific departments in a company or services offered by a high-traffic premises.

Summary of features

Sliding gates operators

OPERATORS – SERIES	Bx-243 Bx-2430			BX-246		BK-800 BK-1200 BK-1800 BK-2200	BKE-1200 BKE-1800 BKE-2200	BK-1200P	BK-220 BY-350
	ZN2			ZD2					ZT6 ZT6C
FUNCTIONAL FEATURES									
SELF-DIAGNOSIS of active safety devices function	•			•	•	•	•	•	•
Opening and closing PREFLASHING function	•	•	•	•	٠	•	•	•	•
REOPENING during closing function	•	•	•	•	•	•	•	•	•
RECLOSING during opening function	•	•		•	٠	•	•		•
Obstacle STALL function	~				•				
TOTAL STOP function	• AFETY	•	•	•	•	•	•	•	•
PARTIAL STOP of the gate-leaf function	SAL	•	•	•	•	•	•	•	
OBSTACLE DETECTION function on photocells		•	•	•	•	•	•	•	
ENCODER operation		-		-	-	-	•	-	
MOVEMENT CONTROL and obstacle detection device		•		•	•				
AMPEROMETRIC DETECTION function	•	•		•	•				
1 leaf PEDESTRIAN OPENING function									
1 leaf PARTIAL OPENING function	•	•	•	•	•	•	٠	•	•
TRANSMITTER OPEN ONLY function	•	٠	•	•	•	•	٠	٠	٠
OPEN ONLY button connection function		•		•	•	•	•	•	•
CLOSE ONLY button connection function		•			•	•	•	•	•
OPEN-STOP-CLOSE-STOP button connection function	COMMAND	•	•	•	•	•	•	•	•
OPEN-CLOSE-REVERSE button connection function	WW	•	•	•	•	•	•	•	•
MAINTAINED ACTION command function	8	•	•	•	•	•	•	•	•
1st leaf DELAYED CLOSING function									
2st leaf DELAYED CLOSING function									
IMMEDIATE CLOSING function									
EMERGENCY RELEASE function from the remote control			٠					٠	
FLASHING LIGHT connection	•	•	٠	•	•	•	٠	٠	٠
CYCLE LAMP connection		•	•		•	•	٠		٠
COURTESY LAMP connection					•	•	•		•
Antenna connection	•	•	•	•	•	•	•	•	•
24V ACCESSORIES connections	•	•	•	•	•	•	•	•	•
OPEN WARNING LIGHT connection	•	•	•	•	•	•	•	•	•
CLOSED WARNING LIGHT connection		•	•						•
Contact output for 2nd RADIO CHANNEL		•		•		•	•		•
Adjusting RUNNING TIME					•				•
EXTRACTABLE, NUMBERED connection terminals	≥ •	•	•	•	•	•	•	•	•
SELF-LEARNING function of the transmitter's RADIO code	EUNCTIONALITY	•	•	•	•	•	•	•	
RAM BLOW function to aid the release of the electrolock	TION	•		-	-	-			
Adjustable AUTOMATIC RE-CLOSING TIME function	- INC	•	•	•	•	•	•	•	
ELECTROLOCK/ELECTRORELEASE connection output	ш	•		•	-	•	•		
OPENING AND/OR CLOSING deceleration		•		•	•				
EMERGENCY-BATTERY operation (optional)		•		•	•				
MASTER-SLAVE operation mode				-	•	•			
Adjustable RUNNING SPEED AND DECELERATION function				•		•			
	•	•		•	•				
Warning DISPLAY					•				
Electronic BRAKE		•		•	•	•	•		•
CONTROL and warning led	•	•	•	•	٠	•	•	•	•



230V A.C. 🔵 24V D.C. 🛑 230-400V A.C. 3-phase

67

Bx-243 🚇

Sliding gate operators

Tested in compliance with European Legislation BX-243 is a complete automation system for sliding gates. An ideal solution for residential installations, this innovative operator has been brought up to EU and international standards for impact forces and meets even the most stringent safety requirements.



Emergency batteries. The BX243 board can also run on emergency batteries, so that the gate will always open, even when the power is out (optional extra).

Encoder technology. The encoder constantly and accurately controls the gate movement allowing for complete safety.



Built-in endstops. BX-243 controls the gate run with built-in endstops located within the motors body.





BX-243's 24V electronics can accept an additional LB90 card which detects any lack of power and activates the battery-powered emergency mode (optional).

for gates of up to 300 Kg for gates of up to 660 lb

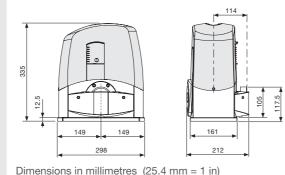
Advantages of Bx-243

Thanks to the testing it has undergone to bring it up to European standards in terms of the impact forces generated by gate movement, the BX-243 offers the highest safety Standards for its intended use (EN12445 -EN12453).

A complete operator, equipped with encoder-based movement control, and features an easy to access control board. BX-243 is an ideal solution for sliding residential gates.

BX-243 - BX-243C	
300	
8.5	
• 24	IV D.C
	300 8.5

Dimensions



Technical features

rechnical realures	
Туре	BX-243
Protection rating	IP54
Power supply (V) (50/60Hz)	230 A.C.
Motor power supply (V)	24 D.C.
Current draw (A)	7 Max
Power (W)	170
Manoeuvre speed (m/min)	12
Duty cycle (%)	Intensive use
Thrust (N)	300
Operating temperature (°C/°F)	-20 °C to 55 °C -4 °F to 131 °F

The complete range



001BX-243 Automation system complete with electronic card, radio decoder, encoder-based sliding gates of up to 300 Kg / 660 lb and 8.5 m / 27'10" ft.

Complete automation system with 24V D.C. motor



001BX-243C Automation system with chain transmission (included) complete with control board, radio decoder, encoder-based movement control and obstacle detection device. Plus, mechanical endstops for sliding gates of up to 300 Kg / 660 lb and 8.5 m / 27'10"

	Accessories	
C.	002 LB90	Card for connecting up two 12V - 1.2Ah
a	009 BCAT	Galvanised chain Ø 5 mm DIN 766 G 30 t (Packages of 50 m / 164 ft).
J.004.		
*******************	009 CGZ	Galvanized rack in rolled steel 22 x 22 m
Construction of the local division of the lo	009 CGZP	Rack in PA6 nylon and fibreglass with ste holes and distancers, for sliding gates of
Concession of the local division of the loca	009 CGZS	Galvanized rack in rolled steel 30 x 8 mm with securing holes and distancers.
	BAT2PK	Set of 2 x 12V - 1.2 Ah batteries.

Accessories

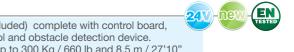
Access control pages 160-165 Safety pages 166-175 Radio control pages 176-189



BX-243C	
IP54	
230 A.C.	
24 D.C.	
7 Max	
170	
12	
30	
300	
-20 °C to 55 °C -4 °F to 1	31 °F
	• 24V D.C



movement control and obstacle detection devices. Plus, mechanical endstops for



emergency batteries with rack.

type A

nm in module 4.

eel core 20 x 20 mm in module 4, with securing of up to 300 Kg / 661 lb.

m module 4

BX-243



for gates of up to 400 - 600 - 800 Kg for gates of up to 880 - 1,320 - 1,760 lb

Sliding gate operators

Вх

Introducing the refreshed Bx range. The Bx series complies with current safety standards with a range of operators suitable for all sliding gates with leaves of up to 800 Kg. A complete series to best meet different operational and safety needs of the market. It features 230V A.C. and 24V D.C. models, for all applications, including high-traffic settings.



Exclusively practical. The BX-P features the PRATICO SYSTEM – a user friendly PATENTED device which, in the event of a power cut, releases the motor through the transmitter. This enables activation from outside of the property where the release lock is usually inaccessible

Innovative ZBX10 electronics. The BX-10 comes with new electronics - a display on which to program its functions plus an encoder to manage both decelerations and obstacle detection. The card can also store up to 250 different codes from the Touch, Top, Atomo, Tam, Tfm and Twin series transmitters.

EN TESTED.

The BX-246 model, besides having the advantages of 24V systems, is tested according to the parameters set forth by European Standards EN12445 and EN12453, as concerns compliance with maximum impact forces generated by the gate during movement.







Advantages of Bx

The Bx is the solution for automating medium sized sliding gates. Thanks to high levels of efficiency and safety, it is suitable for numerous applications, both in residential and apartment block settings. The series offers four 230V A.C. versions and one 24V D.C. model to be used under intense work loads and is ideal where there are frequent power cuts. The control boards are all latest-generation and fitted with all the indispensable commands for a complete system. They can be integrated at any time with any of CAME's safety and command accessories.

Limits to use					
Model	BX-74	BX-P	BX-246	BX-10	BX-78
Max weight of gate leaf (Kg)	400	600	600	800	800
3				🔍 230V A	A.C. 🔵 24V D.C

Dimensions



The BX-74 model is tested according to the parameters described by European Standards EN12445 and EN12453, concerning compliance with maximum impact forces generated by the gate during movement.

Technical feature	es						
Туре	BX-74	BX-P	BX-246	BX-10	BX-78		
Protection rating	IP54	IP54	IP54	IP54	IP54		
Power supply (V) (50/60Hz)	230 A.C.	230 A.C.	230 A.C.	230 A.C.	230 A.C.		
Motor power supply (V)	230 A.C. (50/60 Hz)	230 A.C. (50/60 Hz)	24 D.C.	230 A.C. (50/60 Hz)	230 A.C. (50/60 Hz)		
Current draw (A)	2.6	2	10 Max	2.4	2.4		
Power (W)	200	230	400	300	300		
Manoeuvre speed (m/min)	10	17	6 - 12	10.5	10.5		
Duty cycle (%)	30	30	Intensive use	30	30		
Thrust (N)	300	600	700	800	800		
Motor's thermo-protection (°C/°F)	150/302	150/302	-	150/302	150/302		
Operating temperature (°C/°F)		-20 °	C to 55 °C -4 °F to 1	31 °F			
					● 230V A.C. ● 24V D.C		
The complete range							
Complete automation system with 230V A.C. motor							
001 BX-74 Automation system complete with control board, radio decoder, encoder-based movement control and obstacle detection devices. Also, mechanical endstops for							



sliding gates of up to 400 Kg / 880 lb.

Complete automation systems with 230V A.C. motor

001 BX-78	Automation system complete with control board, radio decoder, encoder-based movement control and obstacle detection devices. Also, mechanical endstops for sliding gates of up to 800 Kg / 1.760 lb.	
001 BX-10	Automation system complete with control board featuring function programming display, built-in radio decoder, encoder-based movement control device and obstacle detection for sliding gates of up to 800 Kg / 1.760 lb in weight and 14 m / 45,93 ft in length.	
001 BX-P	Automation system complete with control board, built-in radio decoder and PRATICO SYSTEM radio release system with a 12V – 1.2 Ah battery for gates weighing up to 600 Kg / 1.320 lb. (notes)	
Complete au	tomation system with 24V D.C. motor	
001 BX-246	Automation system complete with control board, radio decoder, encoder-based movement control and obstacle detection devices. Also, mechanical endstops for sliding gates of up to 600 Kg / 1.320 lb. Fitted to take two 12V – 1.2 Ah batteries.	
Accessories		
001 R001	Lock cylinder with DIN key.	
001 B4337	Chain transmission device.	
009 CCT	1/2 in simple chain for B4337	
009 CGIU	Joint for 1/2 in chain.	
002 LBD2	Card for connecting two 12V – 1.2Ah emergency batteries (for BX-246).	241
002 RSE	Allows 'Master Slave' functionality for operating a pair of sliding gate motors in synchronisation.	
009 CGZ	Galvanized rack in rolled steel 22 x 22 mm / 0,86 x 0,86 in module 4.	
009 CGZP	Rack in PA6 nylon and fibreglass with steel core 20 x 20 mm / $0,78 \times 0,78$ in module 4, with securing holes and distancers, for sliding gates of up to 300 Kg / 661 lb.	
009 CGZS	Galvanized rack in rolled steel 30 x 8 mm / 1,18 x 0,31 in module 4	

-	002 RS

Galvanized rack in rolled steel 30 x 8 mm / 1,18 x 0,31 in module 4 009**CGZS** with securing holes and distancers.

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Accessories
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Access control pages 160-165 Safety pages 166-175 Radio control pages 176-189

Dimensions in millimetres (25.4 mm = 1 in)

NOTES: To activate the release device of item 001BX-P you will need a SECOND radio frequency card of the same series as the automation's radio command (Except for AF30 - AF40).



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Bk Sliding gate operators

Maximum flexibility and safety. Designed for automating sliding gates on apartment blocks, commercial premises and other multi-user environments. With 9 models the Bk range is designed to meet all and any requirements and to automate even gates of considerable weight.



Encoder technology. The encoder constantly and accurately controls the gate movement allowing for complete safety.

Easier and safer operations. Bk can be connected to and control any auxiliary lighting, which turns on each time the gate opens, making it easier and safer to drive in and out.





230-400V 3-phase

When you need maximum power and performance, such as in industrial applications, the BK-2200T's 3-phase provides maximum thrust and minimal energy consumption. The 3-phase power supply also provides optimal current when operating helping to solve problems with inertia on large sing gates.

for gates of up to 800 - 1,200 - 1,800 - 2,200 Kg for gates of up to 1,760 - 2,640 - 3,970 - 4,850 lb

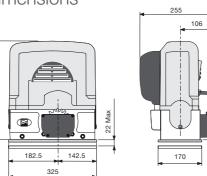


Advantages of Bk

The Bk is the top when it comes to service and safety. When total power, performance and reliability are needed, the Bk 3-phase technology enables the operator to reach its full potential. For example, the "self-diagnostics of the safety circuits" which blocks the system from working if one of the photocells or sensitive edges malfunctions; and the "auxiliary lighting of the driving area", which is directly controlled by the electronic card.

Limits to use						
Model	BK-800	BK-1200	BK-1200P	BK-1800	BK-2200	BK-2200T
Max weight of gate leaf (Kg)	800	1200	1200	1800	2200	2200
Max length of gate leaf (m)	20	20	20	20	20	20
Model		BK-1200E		BK-1800E	BK-2200E	
Max weight of gate leaf (Kg)		1200		1800	2200	
Max length of gate leaf (m)		13		13	13	
				🔵 230V A.C. (230-400V	A.C. 3-phase

Dimensions



Dimensions in millimetres (25.4 mm = 1 in)



Tochnical foaturos

rechnicarieature	35			
Туре	BK-800	BK-1200/E	BK-1200P	BK-180
Protection rating	IP54	IP54	IP54	IP54
Power supply (V) (50/60Hz)	230 A.C.	230 A.C.	230 A.C.	230 A
Motor power supply (V) (50/60Hz)	230 A.C.	230 A.C.	230 A.C.	230 A
Current draw (A)	4.5	3,3	3,3	4,2
Power (W)	520	380	380	480
Manoeuvre speed (m/min - ft/s)	10.5/0.57	10.5/0.57	14.5/0,79	10.5/0
Duty cycle (%)	Intensive use	50	30	50
Thrust (N)	800	850	850	115
Motor's thermo-protection (°C/°F)	150/302	150/302	150/302	150/3
Operating temperature (°C/°F)			-20 °C to 55 °C	-4 °F

The complete range

Complete automation systems with 230V A.C. motor

	001 BK-800	Automation system complete with control board, radio decoder and mechanical endstops for sliding gates of up to 800 Kg / 1,760 lb.	
	001 BK-1200	Automation system complete with control board, radio decoder and mechanical endstops for sliding gates of up to 1,200 Kg / 2,640 lb.	
	001 BK-1200P	Automation system complete with control board, built-in radio decoder, mechanical endstops and PRATICO SYSTEM radio release with a $12V - 1.2$ Ah battery for gates weighing up to $1,200$ Kg / $2,640$ lb.	
	001 BK-1800	Automation system complete with control board, radio decoder and mechanical endstops for sliding gates of up to 1,800 Kg / 3,970 lb.	
	001 BK-2200	Automation system complete with control board, radio decoder and mechanical endstops for sliding gates of up to 2,200 Kg / 4,850 lb with module 6 pinion.	
	001 BKE-1200	Automation system complete with control board, radio decoder, encoder-based movement control for sliding gates of up to 1,200 Kg / 2,640 lb and 13 m / 42'7"	
	001 BKE-1800	Automation system complete with control board, radio decoder, encoder-based movement control for sliding gates of up to 1,800 Kg / 3,970 lb and 13 m / 42'7"	
	001 BKE-2200	Automation system complete with control board, radio decoder, encoder-based movement control for sliding gates of up to 2,200 Kg / 4,850 lb and 13 m / 42'7" with module 6 pinion.	
	Automation sy	ystem with 230-400V A.C. 3-phase	Three
-	001 BK-2200T	Operator with module 6 pinion.	230V 400V
==	Control panel	s for 230-400V A.C. 3-phase operator	Three
*	002 ZT6	Control panel with built-in radio decoder and self-diagnosing safety devices.	230V 400V
	002 ZT6C	Control panel, complete with safety block and buttons, including a built-in radio decoder and self-diagnosing safety devices.	230V 400V
	Accessories		
3	001 R001	Lock cylinder with DIN key.	
N.	001 B4353	Chain transmission device.	
7			
	009 CCT	1/2-inch simple chain for B4353	
н Ш	009 CGIU	Joint for 1/2-inch chain.	
******	009 CGZ	Galvanized rack in rolled steel - 22 x 22 mm, module 4.	
and the second s	009 CGZS	Galvanized rack in rolled steel - 30 x 8 mm, module 4 with securing holes and spacers.	
******	009 CGZ6	Galvanized rack in rolled steel - 30 x 30 mm, module 6.	
	Accessories	Access control pages 160-165 Safety pages 166-175 Radio control pages 176-189	

	BK-1800/E	BK-2200/E	BK-2200T
	IP54	IP54	IP54
	230 A.C.	230 A.C.	230-400V A.C. 3-phase
	230 A.C.	230 A.C.	230-400V A.C. 3-phase
	4,2	5,1	1.5
	480	580	600
	10.5/0.57	10.5/0.57	10.5/0.57
	50	50	50
	1150	1500	1650
	150/302	150/302	150/302
;	-4 °F to 131 °F		

230V A.C. • 230-400V A.C. 3







By-3500T Sliding gate operators

Complete power with total safety. The ideal solution for powering exceptionally heavy gate leaves. A state-of-the-art control board provides maximum resistance to wear and total safety. The By-3500T is the ideal solution for powering exceptionally heavy gate for gate leaves of up to 3,500 Kg / 7,720 lb.



Easier and safer operations. CAME operators can control the auxiliary lighting of the operator's area of movement. This feature makes it safer and easier to use the gate entrance.

Extremely sturdy. The sturdy and reliable BY-3500T typifies the CAME philosophy. The motor will meet even to most exacting demands.

Total auto-control. Before actually opening or closing the gate, the electronics checks the proper functioning of all of the system's safety devices.





The 3-phase voltage power supply to the unit ensures intensive service even under heavy duty working conditions such as armoured gates or hangar doors.

for gate leaves of up to 3.500 Kg for gate leaves of up to 7,720 lb

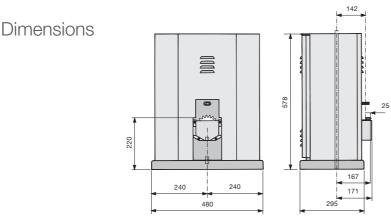


Advantages of By-3500T

BY-3500T - CAME reliability to the maximum power. It is the ideal solution for powering gate for gate leaves of up to 3,500 Kg / 7,720 lb. Besides the normal command and safety functions, the new electronics

supplied with the BY-3500T series provides certain special features: programming the command for partial opening of the gate leaf, ideal for all entrances lacking a pedestrian gate; safety even when the gate is not moving because each command is overridden if an obstacle is detected by the safety devices and gate.

Limits to use	
Model	BY-3500T
Max weight of gate leaf (Kg)	3500
	230-400V A.C. 3-phase



Tochnical foaturos

recrimical realures	
Туре	BY-3500T
Protection rating	IP54
Power supply (V) (50/60Hz)	230-400 A.C. 3-phase
Motor power supply (V)	230-400 A.C. 3-phase
Current draw (A)	2
Power (W)	750
Manoeuvre speed (m/min)	10.5
Duty cycle (%)	50
Thrust (N)	3500
Motor's thermo-protection (°C/°F)	150/302
Operating temperature (°C/°F)	-20 °C to 55 °C -4 °F to 131 °F
	2 30-400V A.C. 3-phas

The complete range

6

	Complete aut	omation with 230-400V 3-phase motor
	001 BY-3500T	Automation system complete with contro for sliding gates of up to 3.500 Kg / 7,72
	Accessories	
*******	009 CGZ6	Galvanized rack in rolled steel - 30 x 30 m
1°	001 BRC15	Power cable collector device for sensitive up to $15 \text{ m} / 49'2$ " ft in length.
L.		
ene (s)	001 BRCP	Aluminium profile for extension L = 5.10 m Application example: on a 15 metre slidin

Accessories

Access control pages 160-165 Safety pages 166-175 Radio control pages 176-189

Dimensions in millimetres (25.4 mm = 1 in)

ol board, radio decoder and mechanical endstops 20 lb with module 6 pinion.

nm, module 6.

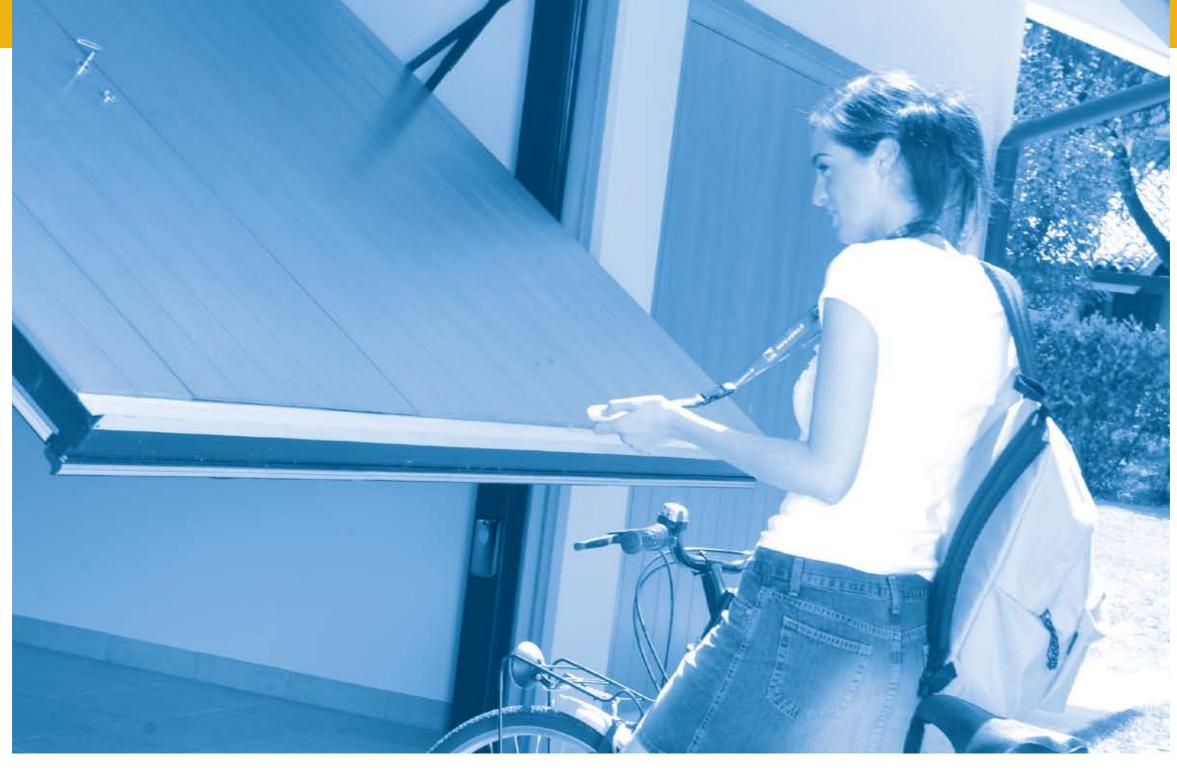
e safety-edges for sliding gates

m / 16'7" ft to couple with a BRC15. ng gate set up 1 x BRC15 and 3 x BRCPs.

CAME

75

SLIDING GATE OPERATORS



A world of safe automation

www.cameuk.com



Sectional and overhead garage door operators





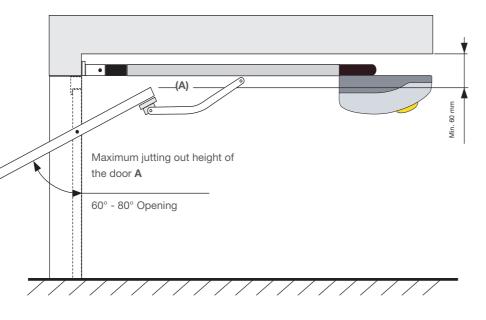
The range

The models

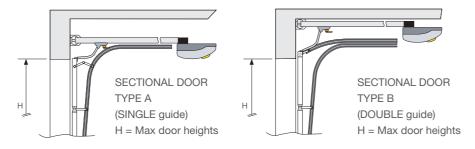
Overhead and sectional door operators are normally used to open large garages and vehicle access ways. CAME offers specific solutions for every type of door, without needing any adaptations nor modifications of the existing door. The table below lists the complete range of operators for overhead and sectional doors, showing the performance features of each one, the limitations of use and suggested application.

Use		RESIDENTIAL	APARTMENTS	INDUSTRIAL	INTENSIVE USE
		G			R
Series	Model		Traction force (N)		
VER	V900E	500	500		YES
VER	V700E	850	850	850	YES
					• 24V D.C.

Pre-installation checks



Recommended use of transmission guide



NOTE: BC = Counter-weighted-Overhead - BM = Spring-loaded Overhead - STA = Type A Sectional A - STB = Type B Sectional

Sectional and overhead garage door operators

OPERATORS – SERIES	
FUNCTIONAL FEATURES	
SELF-DIAGNOSIS of active safety devices function	
Opening and closing PREFLASHING function	
REOPENING during closing function	
RECLOSING during opening function	
Obstacle STALL function	~
TOTAL STOP function	SAFETY
PARTIAL STOP of the gate-leaf function	SA
OBSTACLE DETECTION function on photocells	
ENCODER operation	
MOVEMENT CONTROL and obstacle detection device	
AMPEROMETRIC DETECTION function	
1 leaf PEDESTRIAN OPENING function	
* PARTIAL OPENING function	_
TRANSMITTER OPEN ONLY function	
OPEN ONLY button connection function	_
CLOSE ONLY button connection function	ND
OPEN-STOP-CLOSE-STOP button connection function	COMMAND
OPEN-CLOSE-REVERSE button connection function	COL
MAINTAINED ACTION command function 1st leaf DELAYED CLOSING function	_
2st leaf DELAYED CLOSING function	
IMMEDIATE CLOSING function	
EMERGENCY RELEASE function from the remote control	
	_
FLASHING LIGHT connection	
CYCLE LAMP connection	
CYCLE LAMP connection COURTESY LAMP connection	E
CYCLE LAMP connection COURTESY LAMP connection Antenna connection	E
CYCLE LAMP connection COURTESY LAMP connection Antenna connection 24V ACCESSORIES connections	E
CYCLE LAMP connection COURTESY LAMP connection Antenna connection 24V ACCESSORIES connections OPEN WARNING LIGHT connection CLOSED WARNING LIGHT connection	E
CYCLE LAMP connection COURTESY LAMP connection Antenna connection 24V ACCESSORIES connections OPEN WARNING LIGHT connection CLOSED WARNING LIGHT connection	F
CYCLE LAMP connection COURTESY LAMP connection Antenna connection 24V ACCESSORIES connections OPEN WARNING LIGHT connection CLOSED WARNING LIGHT connection Contact output for 2nd RADIO CHANNEL Adjusting RUNNING TIME	
CYCLE LAMP connection COURTESY LAMP connection Antenna connection 24V ACCESSORIES connections OPEN WARNING LIGHT connection CLOSED WARNING LIGHT connection Contact output for 2nd RADIO CHANNEL Adjusting RUNNING TIME EXTRACTABLE, NUMBERED connection terminals	TITY
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CYCLE LAMP connection COURTESY LAMP connection Antenna connection 24V ACCESSORIES connections OPEN WARNING LIGHT connection CLOSED WARNING LIGHT connection Contact output for 2nd RADIO CHANNEL Adjusting RUNNING TIME EXTRACTABLE, NUMBERED connection terminals SELF-LEARNING function of the transmitter's RADIO code RAM BLOW function to aid the release of the electrolock	NCTIONALITY
CYCLE LAMP connection COURTESY LAMP connection Antenna connection 24V ACCESSORIES connections OPEN WARNING LIGHT connection CLOSED WARNING LIGHT connection Contact output for 2nd RADIO CHANNEL Adjusting RUNNING TIME EXTRACTABLE, NUMBERED connection terminals SELF-LEARNING function of the transmitter's RADIO code RAM BLOW function to aid the release of the electrolock Adjustable AUTOMATIC RE-CLOSING TIME function	FUNCTIONALITY
CYCLE LAMP connection COURTESY LAMP connection Antenna connection 24V ACCESSORIES connections OPEN WARNING LIGHT connection CLOSED WARNING LIGHT connection Contact output for 2nd RADIO CHANNEL Adjusting RUNNING TIME EXTRACTABLE, NUMBERED connection terminals SELF-LEARNING function of the transmitter's RADIO code RAM BLOW function to aid the release of the electrolock Adjustable AUTOMATIC RE-CLOSING TIME function ELECTROLOCK/ELECTRORELEASE connection output	FUNCTIONALITY
CYCLE LAMP connection COURTESY LAMP connection Antenna connection 24V ACCESSORIES connections OPEN WARNING LIGHT connection CLOSED WARNING LIGHT connection Contact output for 2nd RADIO CHANNEL Adjusting RUNNING TIME EXTRACTABLE, NUMBERED connection terminals SELF-LEARNING function of the transmitter's RADIO code RAM BLOW function to aid the release of the electrolock Adjustable AUTOMATIC RE-CLOSING TIME function ELECTROLOCK/ELECTRORELEASE connection output OPENING AND/OR CLOSING deceleration	FUNCTIONALITY
FLASHING LIGHT connection CYCLE LAMP connection COURTESY LAMP connection Antenna connection 24V ACCESSORIES connections OPEN WARNING LIGHT connection CLOSED WARNING LIGHT connection Contact output for 2nd RADIO CHANNEL Adjusting RUNNING TIME EXTRACTABLE, NUMBERED connection terminals SELF-LEARNING function of the transmitter's RADIO code RAM BLOW function to aid the release of the electrolock Adjustable AUTOMATIC RE-CLOSING TIME function ELECTROLOCK/ELECTRORELEASE connection output OPENING AND/OR CLOSING deceleration EMERGENCY-BATTERY operation (optional)	FUNCTIONALITY
CYCLE LAMP connection COURTESY LAMP connection Antenna connection 24V ACCESSORIES connections OPEN WARNING LIGHT connection CLOSED WARNING LIGHT connection Contact output for 2nd RADIO CHANNEL Adjusting RUNNING TIME EXTRACTABLE, NUMBERED connection terminals SELF-LEARNING function of the transmitter's RADIO code RAM BLOW function to aid the release of the electrolock Adjustable AUTOMATIC RE-CLOSING TIME function ELECTROLOCK/ELECTRORELEASE connection output OPENING AND/OR CLOSING deceleration EMERGENCY-BATTERY operation (optional) MASTER-SLAVE operation mode	FUNCTIONALITY
CYCLE LAMP connection COURTESY LAMP connection Antenna connection 24V ACCESSORIES connections OPEN WARNING LIGHT connection CLOSED WARNING LIGHT connection Contact output for 2nd RADIO CHANNEL Adjusting RUNNING TIME EXTRACTABLE, NUMBERED connection terminals SELF-LEARNING function of the transmitter's RADIO code RAM BLOW function to aid the release of the electrolock Adjustable AUTOMATIC RE-CLOSING TIME function ELECTROLOCK/ELECTRORELEASE connection output OPENING AND/OR CLOSING deceleration EMERGENCY-BATTERY operation (optional) MASTER-SLAVE operation mode Adjustable RUNNING SPEED AND DECELERATION function	FUNCTIONALITY
CYCLE LAMP connection COURTESY LAMP connection Antenna connection 24V ACCESSORIES connections OPEN WARNING LIGHT connection CLOSED WARNING LIGHT connection Contact output for 2nd RADIO CHANNEL Adjusting RUNNING TIME EXTRACTABLE, NUMBERED connection terminals SELF-LEARNING function of the transmitter's RADIO code RAM BLOW function to aid the release of the electrolock Adjustable AUTOMATIC RE-CLOSING TIME function ELECTROLOCK/ELECTRORELEASE connection output OPENING AND/OR CLOSING deceleration EMERGENCY-BATTERY operation (optional) MASTER-SLAVE operation mode Adjustable RUNNING SPEED AND DECELERATION function Warning DISPLAY	FUNCTIONALITY
CYCLE LAMP connection COURTESY LAMP connection Antenna connection 24V ACCESSORIES connections OPEN WARNING LIGHT connection CLOSED WARNING LIGHT connection Contact output for 2nd RADIO CHANNEL Adjusting RUNNING TIME EXTRACTABLE, NUMBERED connection terminals SELF-LEARNING function of the transmitter's RADIO code RAM BLOW function to aid the release of the electrolock Adjustable AUTOMATIC RE-CLOSING TIME function ELECTROLOCK/ELECTRORELEASE connection output OPENING AND/OR CLOSING deceleration EMERGENCY-BATTERY operation (optional) MASTER-SLAVE operation mode	FUNCTIONALITY

NOTES: * OPTION 1: Activation of the partial opening command function with command device (selector, N.O. button and transmitter). * OPTION 2: Activation of Partial opening function with command device.



V700E	V900E
ZL55	ZL56
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•	● 230V A.C. ● 24V D.C.
	◯ 230V A.C. ◯ 24V D.C.

Standard RESIDENTIAL installation

TRAINED users and positioned on PUBLIC STREET

Remote controlled operation is often the desired activation method, this needs to be considered when choosing safety options. This safety should therefore be applied on both the so-called "primary edge" (i.e. the passage zone) and the "secondary edge" (the zone behind the door).

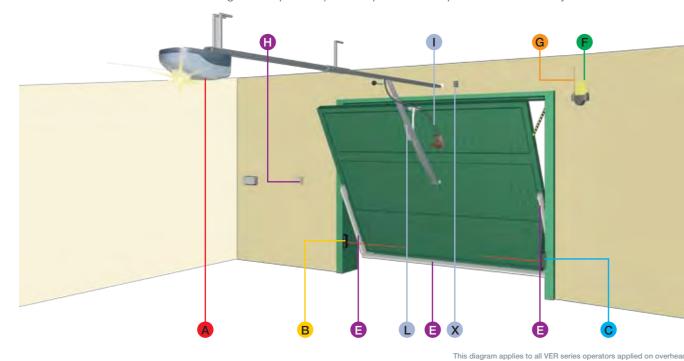
Current legislation requires the C + D type minimal solutions (ref. page 8):

employing sensitive safety edges and infrared beam photocells.

Important

(EN

If using EN12445 - EN12453 tested operators and control panels (highlighted with the green EN Tested mark), then sensitive safety edges need not be installed, provided that the required impact-force measurements (taken for each individual installation the engineer responsible) are compliant with the parameters dictated by the Standards.



Standard issue

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Operator with control panel	Cable length (m)	<10		10 - 20		20 - 30	
· · ·	Cable length (ft)		< 32' 8"		32' 8" - 65' 6"		65' 6"- 98' 4"
TX Infrared photocells	Power supply 230V A.C. (120V A.C.) 750W Max	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG14	3Gx1.5mm ²	3GxAWG14
RX Infrared photocells	Power supply 230-400V A.C. 3-phase 750W Max	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15
RA Initated photocells	Motor power supply 230V A.C. (120V A.C.) 750W Max	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG15
Safety sensitive edge	 Motor power supply 230-400V A.C. 3-phase 750W Max 	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15
	 Motor power supply 24V D.C 400W Max 	2Gx1.5mm ²	2GxAWG15	2Gx2.5mm ²	2GxAWG13	2Gx2.5mm ²	2GxAWG13
Flashing light	O Endstop microswitches	*n°x0.5mm ²	n°xAWG20	*nx0.5mm ²	n°xAWG20	*nx0.5mm ²	n°xAWG20
A	 Flashing light 24V A.CD.C. 25W 	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17
Antenna	 Flashing light 230V A.C. (120V A.C.) 25W 	2x1.5mm ²	2xAWG15	2x1.5mm ²	2xAWG15	2x1.5mm ²	2xAWG15
Selector switch (key - code - card)	 TX Photocell 	2x0.5mm ²	2xAWG20	2x0.5mm ²	2xAWG20	2x0.5mm ²	2xAWG20
	RX Photocell	4x0.5mm ²	4xAWG20	4x0.5mm ²	4xAWG20	4x0.5mm ²	4xAWG20
Cord-operated release device	 Electric lock 12V D.C. 	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1.5mm ²	2xAWG15
	Electric lock 24V D.C.	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17
Adapter arm	Commands	*n°x0.5mm ²	n°xAWG20	*n°x0.5mm ²	n°xAWG20	*n°x0.5mm²	n°xAWG20
	Antenna			RG58 Max 10	0m 32' 8" ft		

n°xAWG20

counterweighted doors, or those having vertical runner guides

*n° = see documentation
European standards
US standards

Adapter arm for counterweighted doors



The V201 adaptor arm is necessary when using the Ver series on counterweighted overhead doors and in all doors fitted with vertical runner guides. The installation requires riveting or bolting directly on the overhead door's reinforcing crosspieces.

24V with battery backup 24V



The 24V VER operator for sectional and overhead doors automatically detects any lack of power and activates the battery powered emergency mode to open and close the door even during a power cut.

Standard recommended installation

Sectional RESIDENTIAL installation

TRAINED users and positioned on PUBLIC STREET

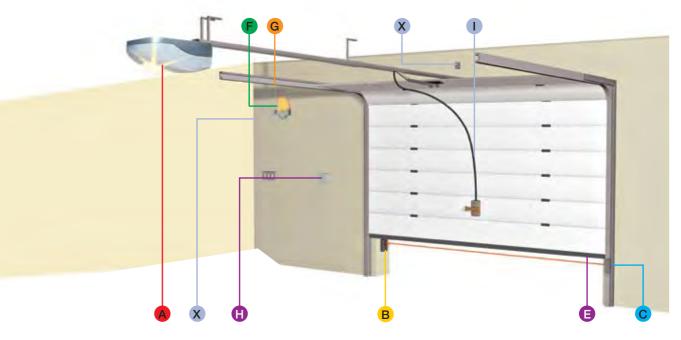
Remote controlled operation is often the desired activation method, this needs to be considered when choosing safety options. This safety should therefore be applied on both the so-called "primary edge" (i.e. the passage zone) and the "secondary edge" (the zone behind the door).

Current legislation requires the C + D type minimal solutions (ref. page 8): employing sensitive safety edges and infrared beam photocells.

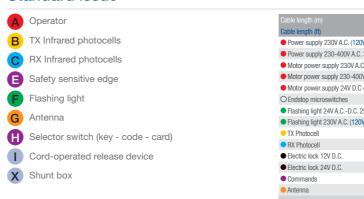


Important

If using EN12445 - EN12453 tested operators and control panels (highlighted with the green EN Tested mark), then sensitive safety edges need not be installed, provided that the required impact-force measurements (taken for each individual installation the engineer responsible) are compliant with the parameters dictated by the Standards.



Standard issue



Chain and belt driven transmission guides



The two solutions are the same in terms of reliability and durability. The transmission belt-auides are more silent during operation, while the chain-guides are more suitable for medium-to-large doors.



This diagram applies to all VER series operators used on sectional doors.

	<10		10 - 20		20 - 30	
		< 32' 8"		32' 8" - 65' 6"		65' 6"- 98' 4"
OV A.C.) 750W Max	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG14	3Gx1.5mm ²	3GxAWG14
. 3-phase 750W Max	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15
C. (120V A.C.) 750W Max	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG15
OV A.C. 3-phase 750W Max	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15
2 400W Max	2Gx1.5mm ²	2GxAWG15	2Gx2.5mm ²	2GxAWG13	2Gx2.5mm ²	2GxAWG13
	*n°x0.5mm²	n°xAWG20	*nx0.5mm ²	n°xAWG20	*nx0.5mm ²	n°xAWG20
25W	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17
OV A.C.) 25W	2x1.5mm ²	2xAWG15	2x1.5mm ²	2xAWG15	2x1.5mm ²	2xAWG15
	2x0.5mm ²	2xAWG20	2x0.5mm ²	2xAWG20	2x0.5mm ²	2xAWG20
	4x0.5mm ²	4xAWG20	4x0.5mm ²	4xAWG20	4x0.5mm ²	4xAWG20
	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1.5mm ²	2xAWG15
	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17
	*n°x0.5mm²	n°xAWG20	*n°x0.5mm²	n°xAWG20	*n°x0.5mm²	n°xAWG20
			RG58 Max 10)m 32' 8" ft		
		*n° = :	see documenta	tion Europea	ın standards 🤇	US standards

Pull-cord release directly applied to the door's handle



CAME garage door operators allow you to mechanically lock the motor directly from the door handle. This function is fundamental in applications where there is no secondary garage entrance.

Sectional and overhead garage door operators

Automation ready in minutes.

Ver

Thanks to the latest VER automation system it is now even easier to automate a garage door. Just couple the transmission rail to the motor and the automation is ready to install. All the Ver series motors are 24V powered, which guarantees safety and reliability.



EN TESTED. Thanks to laboratory testing carried out on a door sample, V900E is European Standard EN12445 and EN12453 compliant, in terms of impact forces.

The chain and belt driven transmission guides are adjustable to fit the height of the door requiring motorisation. Being extremely tough and completely silent, they provide a customisable solution for every type of door.

Within the motor unit there is also space for housing emergency batteries, which will power the opening should the mains voltage be cut off.







Ver 24V technology allows for total control of the gate movement. V900E is European standard EN12445 and EN12453 compliant, in terms of impact forces.



Advantages of the VER

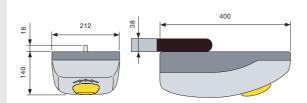
::::...

The VER is quick to install and will integrate perfectly with an existing garage door, with no modifications required. It is therefore an easy and cost-effective system.

It is simple to use, yet powerful in line with the CAME tradition. It features silent, reliable slide rails and can be fitted with an outer pull-chord release that can be directly applied to the door's standard handle. It comes complete with a courtesy light to aid parking on those dark winter nights.

Limits	to use		
Type of door	Overhead counterweighted or	Overhead	Sectional
	spring-loaded extended or partially	Spring-loaded	
	extended doors (with V201)	Extended doors	
	Traction force (N)	Traction force (N)	Traction force (N)
V700	850	850	850
	000	030	000
V900E	500	500	500

Dimensions



	V700	V900E	
n rating	IP40	IP40	CAME
pply (V) (50/60Hz)	230 A.C.	230 A.C.	
wer supply (V) raw (A)	24 D.C. 11 Max	24 D.C. 6 Max	
)	260	130	
re speed 90° (s)	6	6	
e (%)	50	50	
orce (N)	850	500	
g temperature (°C/°F)	-20 °C to 55 °C	4 °F to 131 °F • 24V D.C	<u>).</u>
e complete i	0		
	omation system with 24V D.C. motor		
001 V900E	Complete automation system with encoder-based cor counterweighted, spring-loaded and sectional doors (
Complete aut	omation system with 24V D.C. motor		
001 V700E	Complete automation system with control panel, for o spring-loaded and sectional doors (Traction force: 850		24.0
Accessories			
001 V0670	Card for connecting two 12V – 1.2 Ah emergency batt	eries with rack.	-24.0
001 V005	142cm chain guide extension for guide types: V0679 - V0682 - V0683 - V0684.		
001 V121	Cord release device to apply to the door handle. (3 me	etres long)	
001 V122	Transmission arm for sectional doors, with distance be door and springs-pole assembly between 30 and 60 c		
001 V201	Transmission adapter arm for partially extended count Max door height: 2.4 m	erweighted overhead doors.	
001 V0679	Chain guide. Length = 3.02 m Max door height: BC = 2.4 m BM = 2.25 m STA = 2	2.1 m STB = 2.2 m	
001 V0682	Chain guide. Length = 3.52 m Max door height: BC = 2.75 m BM = 2.6 m STA = 2	2.7 m STB = 2.2 m	
001 V0683	Chain guide. Length = 4.02 m Max door height: BC = 3.25 m BM = 3.1 m STA = 3	3.2 m STB = 2.2 m	
001 V068 4	Chain guide. Length = 3.02 m Max door height: BC = 2.4 m BM = 2.25 m STA = 2.	.1 m STB = 2.2 m	
001 V0685	Belt guide. Length = 3.02 m Max door height: BC = 2.4 m BM = 2.25 m STA = 2	2.1 m	
001 V0686	Belt guide. Length = 3.52 m Max door height: BC = 2.75 m BM = 2.6 m STA = 2	2.7 m	
001 V0688	Belt guide. Length = 4.02 m Max door height: BC = 3.25 m BM = 3.1 m STA = 3	3.2 m	

ical features	V700	V900E	
ng (V) (50/60Hz)	IP40 230 A.C.	IP40 230 A.C.	CAME
upply (V)	24 D.C.	24 D.C.	•/ •••=
(A)	11 Max	6 Max	
1000 ()	260	130	
eed 90° (s)	6 50	6 50	
(N)	850	500	
perature (°C/°F)	-20 °C to 55 °C	-4 °F to 131 °F 24V D.(
		24¥ D.	
complete	0		
Complete au	tomation system with 24V D.C. motor		
001 V900E	Complete automation system with encoder-based concerning counterweighted, spring-loaded and sectional doors		
Complete au	tomation system with 24V D.C. motor		241
001 V700E	Complete automation system with control panel, for spring-loaded and sectional doors (Traction force: 85		
Accessories			
001 V0670	Card for connecting two 12V – 1.2 Ah emergency ba	tteries with rack.	24.1
001 V005	142cm chain guide extension for guide types: V0679 - V0682 - V0683 - V0684.		
001V121	Cord release device to apply to the door handle. (3 n	netres long)	
001 V122	Transmission arm for sectional doors, with distance door and springs-pole assembly between 30 and 60		
001 V201	Transmission adapter arm for partially extended cour Max door height: 2.4 m	nterweighted overhead doors.	
001 V0679	Chain guide. Length = 3.02 m Max door height: BC = 2.4 m BM = 2.25 m STA =	= 2.1 m STB = 2.2 m	
001 V0682	Chain guide. Length = 3.52 m Max door height: BC = 2.75 m BM = 2.6 m STA =	= 2.7 m STB = 2.2 m	
001 V0683	Chain guide. Length = 4.02 m Max door height: BC = 3.25 m BM = 3.1 m STA =	= 3.2 m STB = 2.2 m	
001 V0684	Chain guide. Length = 3.02 m Max door height: BC = 2.4 m BM = 2.25 m STA =	2.1 m STB = 2.2 m	
001 V0685	Belt guide. Length = 3.02 m Max door height: BC = 2.4 m BM = 2.25 m STA =	= 2.1 m	
001 V0686	Belt guide. Length = 3.52 m Max door height: BC = 2.75 m BM = 2.6 m STA =	= 2.7 m	
001 V0688	Belt guide. Length = 4.02 m Max door height: BC = 3.25 m BM = 3.1 m STA =	= 3.2 m	
001 V0687	Belt guide. Length = 3.02 m		



Garage Door Kits page 28

Dimensions in millimetres (25.4 mm = 1 in)

Access control pages 160-165 Safety pages 166-175 Radio control pages 176-189

Accessories

GAI



A world of safe automation





Parking Barriers



The range



The models

Parking barriers are today one of the most sought after types of automation for controlling the vehicle traffic in public car parks, private entrances, and blocks of flats. The CAME range includes both 230V A.C. and 24V D.C. models, and a special stainless steel version when corrosion might be an issue. Any type of throughway can be controlled, from small, narrow passages with quick barriers, to very wide passages of up to 12 m / 39'4" of net span. A vast range of dedicated accessories is also available, all designed to complement the system even when special requests are involved, such as with jointed arms or antipanic systems.

Two other useful solutions to guarantee a parking space are Unipark and Cat; Automatic barriers for controlling single or multiple private parking spaces.

They are simple to install and use, and extremely durable over time thanks to the best materials and technologies employed. The table below details the complete range of parking barriers according to the width of the road or parking space, the limitations of use and the suggested application setting.

Use		RESIDENTIAL	APARTMENTS	INDUSTRIAL	INTENSIVE USE
					Ŗ
Series	Model		Max width of opening (m / f	t)	
Gard	G2500		2.5 / 8'2"		
Gard	G4000		4 / 13'	4 / 13'	YES
Gard	G4001		4 / 13'	4 / 13'	YES
Gard4	G4040Z		3.75 / 12'3"	3.75 / 12'3"	YES
Gard4	G4040IZ		3.75 / 12'3"	3.75 / 12'3"	YES
Gard	G6000		6.5 / 22'	6.5 / 22'	YES
Gard	G6001		6.5 / 22'	6.5 / 22'	YES
Gard4	G4041Z		3.75 / 12'3"	3.75 / 12'3"	
Gard8	G2080Z		7.6 / 25'	7.6 / 25'	YES
Gard8	G2080IZ		7.6 / 25'	7.6 / 25'	YES
Gard8	G2081Z		7.6 / 25'	7.6 / 25'	
Gard12	G12000		12 / 40'	12 / 40'	YES
Series	Model	Ma	k width of a parking space (n	n / ft)	
Unipark	*UNIP	ARK 1 - 2 / 6'5"	ARK 1 - 2 / 6'5"	ARK 1 - 2 / 6'5"	
		ARK 2 - 2.2 / 8'2"	ARK 2 - 2.2 / 8'2"	ARK 2 - 2.2 / 8'2"	
		Type of c	hain (mm) - Max width of er		
Cat	CAT-X	5/16-9/8	5/16-9/8	5/16-9/8	
Cat	CAT-X24	5/16-9/8	5/16-9/8	5/16-9/8	YES
					• 230V A.C • 24V D.

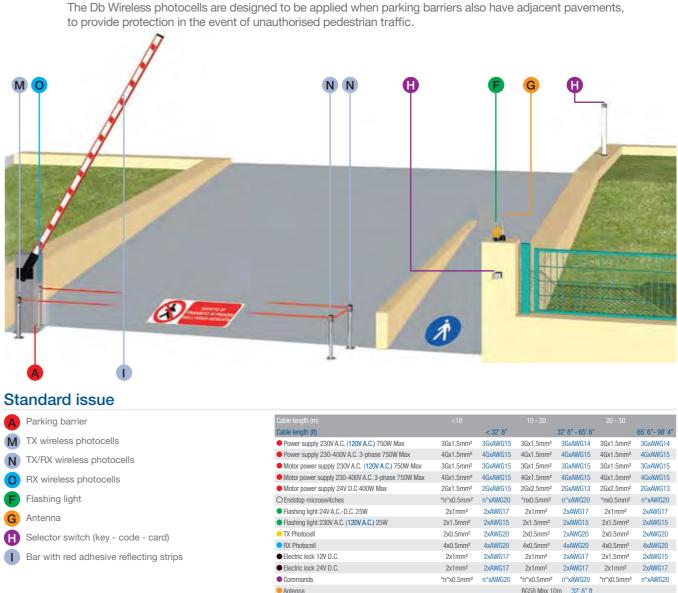
* Unip is combined with ARK1 or ARK2

Standard RESIDENTIAL installation

TRAINED users and positioned on PUBLIC STREET

Barriers that only allow vehicle passage are excluded from the scope of the European Standards. However, in the interests of safety we strongly recommend identifying and demarcating any adjacent pedestrian passages, and setting up devices to detect vehicle traffic.

Important



Complete safety



The Db series wireless photocells are a revolutionary way to ensure safety, even when not initially planned for. This saves on expensive digging and masonry work. Db means you can install less components while increasing the level of safety.



	<10		10 - 20		20 - 30	
		< 32' 8"		32' 8" - 65' 6"		65' 6"- 98' 4"
OV A.C.) 750W Max	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG14	3Gx1.5mm ²	3GxAWG14
. 3-phase 750W Max	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15
C. (120V A.C.) 750W Max	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG15
IV A.C. 3-phase 750W Max	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15
400W Max	2Gx1.5mm ²	2GxAWG15	2Gx2.5mm ²	2GxAWG13	2Gx2.5mm ²	2GxAWG13
	*n°x0.5mm ²	n°xAWG20	*nx0.5mm ²	n°xAWG20	*nx0.5mm ²	n°xAWG20
25W	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17
V A.C.) 25W	2x1.5mm ²	2xAWG15	2x1.5mm ²	2xAWG15	2x1.5mm ²	2xAWG15
	2x0.5mm ²	2xAWG20	2x0.5mm ²	2xAWG20	2x0.5mm ²	2xAWG20
	4x0.5mm ²	4xAWG20	4x0.5mm ²	4xAWG20	4x0.5mm ²	4xAWG20
	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1.5mm ²	2xAWG15
	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17
	*n°x0.5mm²	n°xAWG20	*n°x0.5mm²	n°xAWG20	*n°x0.5mm²	n°xAWG20
			RG58 Max 10)m 32' 8" ft		

*n° = see documentation
European standards
US standards



Flashing light

The KIAROIN and KIARO24IN can be set to flash after the operator has performed 5,000, 10,000, 20,000 or 50,000 operations. It is an automatic solution for programming the system's ordinary maintenance schedule.

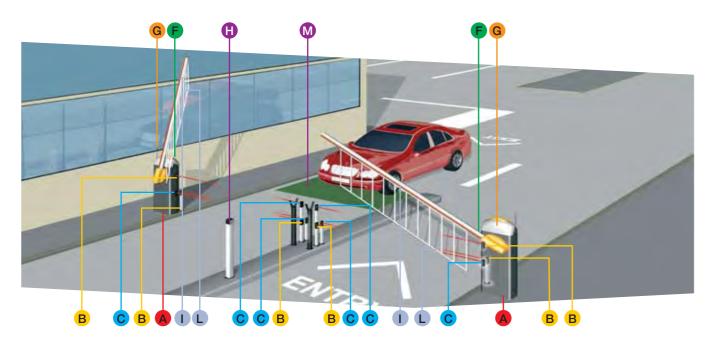
Standard INDUSTRIAL installation

TRAINED users and positioned on PUBLIC STREET

Barriers that only allow vehicle passage are excluded from the scope of the European Standards. However, in the interests of safety we strongly recommend identifying and demarcating any adjacent pedestrian passages, and setting up devices to detect vehicle traffic.

Important

It is possible to install systems with opposing barriers that have independent safety devices. These barriers can be complimented by magnetic induction loop sensors that can work both as a command function or as an added safety feature (placed next to the bar).



Standard Issue

A	Parking barrier	Cable length (m)	<10		10 - 20		20 - 30	
-	0	Cable length (ft)		< 32' 8"		32' 8" - 65' 6"		65' 6"- 98' 4"
B	TX Infrared photocells	Power supply 230V A.C. (120V A.C.) 750W Max	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG14	3Gx1.5mm ²	3GxAWG14
	DV infrared photocolle	Power supply 230-400V A.C. 3-phase 750W Max	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15
C	RX Infrared photocells	Motor power supply 230V A.C. (120V A.C.) 750W Max	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG15
F	Flashing light	 Motor power supply 230-400V A.C. 3-phase 750W Max 	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15
-		 Motor power supply 24V D.C 400W Max 	2Gx1.5mm ²	2GxAWG15	2Gx2.5mm ²	2GxAWG13	2Gx2.5mm ²	2GxAWG13
G	Antenna	O Endstop microswitches	*n°x0.5mm ²	n°xAWG20	*nx0.5mm ²	n°xAWG20	*nx0.5mm ²	n°xAWG20
-		 Flashing light 24V A.CD.C. 25W 	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17
Ð	Selector switch (key - code - card)	 Flashing light 230V A.C. (120V A.C.) 25W 	2x1.5mm ²	2xAWG15	2x1.5mm ²	2xAWG15	2x1.5mm ²	2xAWG15
	Bar with luminous cord	 TX Photocell 	2x0.5mm ²	2xAWG20	2x0.5mm ²	2xAWG20	2x0.5mm ²	2xAWG20
		 RX Photocell 	4x0.5mm ²	4xAWG20	4x0.5mm ²	4xAWG20	4x0.5mm ²	4xAWG20
L	Rack	 Electric lock 12V D.C. 	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1.5mm ²	2xAWG15
-		 Electric lock 24V D.C. 	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17
M	Induction Loop Sensor	Commands	*n°x0.5mm ²	n°xAWG20	*n°x0.5mm²	n°xAWG20	*n°x0.5mm ²	n°xAWG20
		Antenna			RG58 Max 1	0m 32' 8" ft		

*n° = see documentation
 European standards
 US standards

Special accessories: joint for bar



If there is not enough room for the barrier arm's normal rotation. such as in indoor car parks. there are special jointed bars available which take up less vertical space during opening but do not take away from the horizontal coverage of the barrier arm.

Wireless digital keypad



The S9000 wireless keypad is designed to solve issues when the installation requires minimal disruption or where it is difficult to lay cables. The code is protected by millions of combinations and by an "electronic antiburglary" system which prevents tampering.

Standard recommended installation

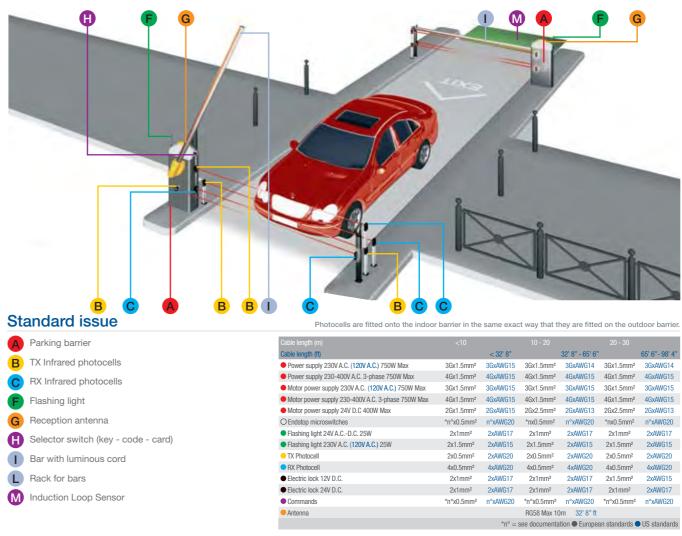
Standard PARKING installation

TRAINED users and positioned on PUBLIC STREET

Barriers that only allow vehicle passage are excluded from the scope of the European Standards. However, in the interests of safety we strongly recommend identifying and demarcating any adjacent pedestrian passages, and setting up devices to detect vehicle traffic.

Important

Systems with barriers featuring "Master & Slave" multi-directional functionality may also be installed. This guarantees maximum control of vehicular transit even with two-way passages (i.e. vehicles travelling in opposite directions) but with only one lane.



Also for pay-to-park systems



24V D.C. CAME barriers are ideal for automatic parking installations. We recommend the special stainless steel (rust proof) cabinet. Ideal for sites near the sea or in high traffic areas.



		< 32' 8"		32' 8" - 65' 6"		65' 6"- 98' 4"
OV A.C.) 750W Max	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG14	3Gx1.5mm ²	3GxAWG14
. 3-phase 750W Max	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15
C. (120V A.C.) 750W Max	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG15
OV A.C. 3-phase 750W Max	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15
2400W Max	2Gx1.5mm ²	2GxAWG15	2Gx2.5mm ²	2GxAWG13	2Gx2.5mm ²	2GxAWG13
	*n°x0.5mm²	n°xAWG20	*nx0.5mm ²	n°xAWG20	*nx0.5mm ²	n°xAWG20
25W	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17
VA.C.) 25W	2x1.5mm ²	2xAWG15	2x1.5mm ²	2xAWG15	2x1.5mm ²	2xAWG15
	2x0.5mm ²	2xAWG20	2x0.5mm ²	2xAWG20	2x0.5mm ²	2xAWG20
	4x0.5mm ²	4xAWG20	4x0.5mm ²	4xAWG20	4x0.5mm ²	4xAWG20
	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1.5mm ²	2xAWG15
	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17
	*n°x0.5mm²	n°xAWG20	*n°x0.5mm²	n°xAWG20	*n°x0.5mm²	n°xAWG20
			RG58 Max 10	m 32' 8" ft		

Total entry control



Parking barriers may be connected to the different access control systems to identify, memorise, clear for entrance and exit only authorised personnel. This lets you manage transit in different company departments or other types of collective structures.

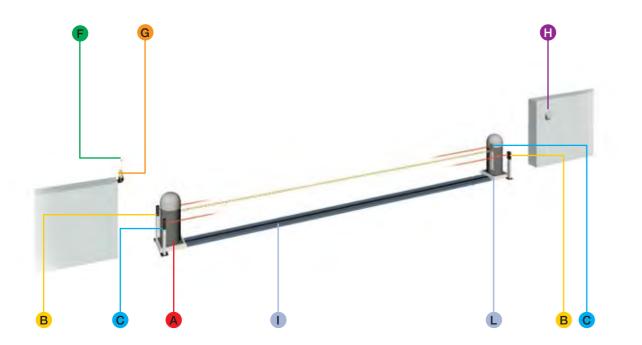
Standard CAT barrier installation

TRAINED users and positioned on PUBLIC STREET

Remote controlled operation is often the desired activation method, which needs to be considered when choosing safety options. At the present time this type of installation does not require any additional safety devices to conform with the European standards. However, given that there is no specific legislation on this matter, for the purposes of user safety we believe it necessary to apply our safety devices in accordance with the results of careful risk analysis we have conducted.

Important

The Cat chain barriers are an exclusive CAME patent and can integrate aesthetically with the architectural look of historical town centres where, stylish, low profile installations are requested.



Standard issue

A	Bollard with operator and built-in control panel
В	TX Infrared photocells
С	RX Infrared photocells
F	Flashing light
G	Antenna
Ð	Selector switch (key - code - card)
	Floor-level chain-protection guide
L	Bollard with counterweights and chain coupling

Cable length (m)	<10		10 - 20		20 - 30	
Cable length (ft)		< 32' 8"		32' 8" - 65' 6"		65' 6"- 98' 4"
Power supply 230V A.C. (120V A.C.) 750W Max	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG14	3Gx1.5mm ²	3GxAWG14
Power supply 230-400V A.C. 3-phase 750W Max	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15
Motor power supply 230V A.C. (120V A.C.) 750W Max	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG15
Motor power supply 230-400V A.C. 3-phase 750W Max	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15
 Motor power supply 24V D.C 400W Max 	2Gx1.5mm ²	2GxAWG15	2Gx2.5mm ²	2GxAWG13	2Gx2.5mm ²	2GxAWG13
O Endstop microswitches	*n°x0.5mm²	n°xAWG20	*nx0.5mm ²	n°xAWG20	*nx0.5mm ²	n°xAWG20
 Flashing light 24V A.CD.C. 25W 	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17
Flashing light 230V A.C. (120V A.C.) 25W	2x1.5mm ²	2xAWG15	2x1.5mm ²	2xAWG15	2x1.5mm ²	2xAWG15
 TX Photocell 	2x0.5mm ²	2xAWG20	2x0.5mm ²	2xAWG20	2x0.5mm ²	2xAWG20
 RX Photocell 	4x0.5mm ²	4xAWG20	4x0.5mm ²	4xAWG20	4x0.5mm ²	4xAWG20
 Electric lock 12V D.C. 	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1.5mm ²	2xAWG15
 Electric lock 24V D.C. 	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17
Commands	*n°x0.5mm²	n°xAWG20	*n°x0.5mm ²	n°xAWG20	*n°x0.5mm ²	n°xAWG20
Antenna			RG58 Max 10	Om 32' 8" ft		
		*n° =	see documenta	ation Europea	an standards 🤇	US standards

Standard recommended installation

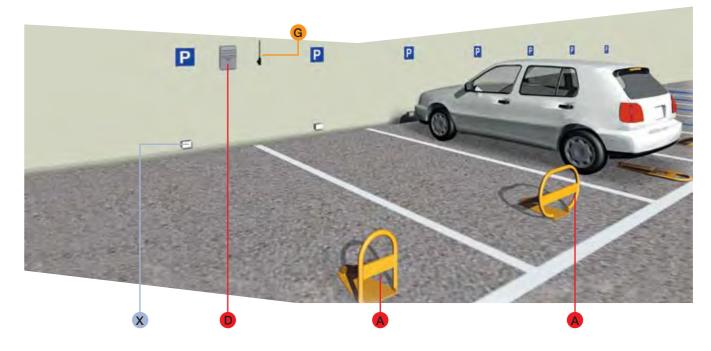
Standard UNIPARK installation

TRAINED users and positioned on PUBLIC STREET

Remote controlled operation is often the desired activation method. At the present time, this type of installation does not require any additional safety devices to conform with the European standards.

Important

Multiple installations can be set up, using a single control panel to control 4 Unipark barriers.



Standard issue



ľ	
l	Cable length (ft)
•	Power supply 230V A.C. (12
•	Power supply 230-400V A.
•	Motor power supply 230V A
1	Motor power supply 230-40
1	Motor power supply 24V D.
(C Endstop microswitches
	Flashing light 24V A.CD.C
(Flashing light 230V A.C. (12)
	TX Photocell
•	RX Photocell
(Electric lock 12V D.C.
(Electric lock 24V D.C.
	Commands
1	Antenna 📃

DIR: The synchronised photocell



The DIR photocells' operation principle consists of auto-synchronising the infrared beams between receiver and transmitter. This function allows for multiple installation requirements that are typical in industrial settings, where devices need to be placed at two different heights.

Total entry control



Automatic chain barriers may be connected to different access control systems to identify, memorise, clear for entrance and exit only authorised personnel. This lets you manage transit in different company departments or other types of collective structures.

Small and multi-user



TAM-432SA is the ideal transmitter to combine with Unipark and Cat. Its small size and multiuser features make it both practical and multi-functional. The same transmitter can be used for the parking space as well as for another common function.



		< 32' 8"		32' 8" - 65' 6"		65' 6"- 98' 4"
OV A.C.) 750W Max	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG14	3Gx1.5mm ²	3GxAWG14
. 3-phase 750W Max	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15
C. (120V A.C.) 750W Max	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG15
IV A.C. 3-phase 750W Max	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15
400W Max	2Gx1.5mm ²	2GxAWG15	2Gx2.5mm ²	2GxAWG13	2Gx2.5mm ²	2GxAWG13
	*n°x0.5mm ²	n°xAWG20	*nx0.5mm ²	n°xAWG20	*nx0.5mm ²	n°xAWG20
25W	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17
V A.C.) 25W	2x1.5mm ²	2xAWG15	2x1.5mm ²	2xAWG15	2x1.5mm ²	2xAWG15
	2x0.5mm ²	2xAWG20	2x0.5mm ²	2xAWG20	2x0.5mm ²	2xAWG20
	4x0.5mm ²	4xAWG20	4x0.5mm ²	4xAWG20	4x0.5mm ²	4xAWG20
	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1.5mm ²	2xAWG15
	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17
	*n°x0.5mm ²	n°xAWG20	*n°x0.5mm²	n°xAWG20	*n°x0.5mm²	n°xAWG20
			RG58 Max 10)m 32' 8" ft		

*n° = see documentation
 European standards
 US standards

Practical, solid and safe!



Unipark is a smart automation that combines easy installation and user-friendliness within a solid, resistant structure. It offers maximum safety to the user thanks to the amperometric sensor which detects any obstacles.

92

Oldestand 1 001G0251 Aluminium bar. 2.7m long 1 001G0461 Red phosphorescent strips 1	rrier kit	س 2.5m Qty 1 1	Oldeood Barrier unit with control panel 1 Didood Barrie
Other Control Panel 1 001 G04001 Aluminium bar. 4.2m long 1	rier kit with square barrier arm.	س 4m Cty 1	Old Geodo Barrier unit with control panel 1 1 1
001G0461 Red phosphorescent strips 1 NOTE: In areas that may be subject to windy conditiarm kit is NOT installed. Please choose the to Image: Complete Strips Image: Complete Strips Other Complete Strips Complete Strips Image: Complete Strips Image: Complete Strips	ubular arm version (below) instead. T Kit rier kit with tubular barrier arm.	4m Oty 1 1	001 G0605 Fitting for G0602 bar



Complete Barrier Kits

NOTE: For greater flexibility, no activation accessories are included in these standard kits. All barrier kits can be controlled using any of the standard CAME accessories, including PS parking systems, digital keypads, radio remote controls and magnetic induction loops.

Certain items listed in the kits on these pages, namely control board, remote controls or safety photocells, may be substituted without prior notice for a comparative alternative if the advertised item code is temporarily out of stock.

technical specifications & operational limits for all barriers shown below can be found on page 98

6S kit

arrier kit with **square** barrier arm. to 6.5 metres

001DOC-I Pair flush mount photocells 001DOC-LN Column for photocell (black)

ditions we strongly recommend that this square tubular arm version (below) instead.

6T kit

arrier kit with **tubular** barrier arm. to 6.5 metres

> 001DOC-I Pair flush mount photocells 001DOC-LN Column for photocell (black) 001G0461 Red phosphorescent strips

> > **Technical Info**

Access control pages 160-165 Safety pages 166-175 Radio control pages 176-189

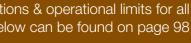
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Qty





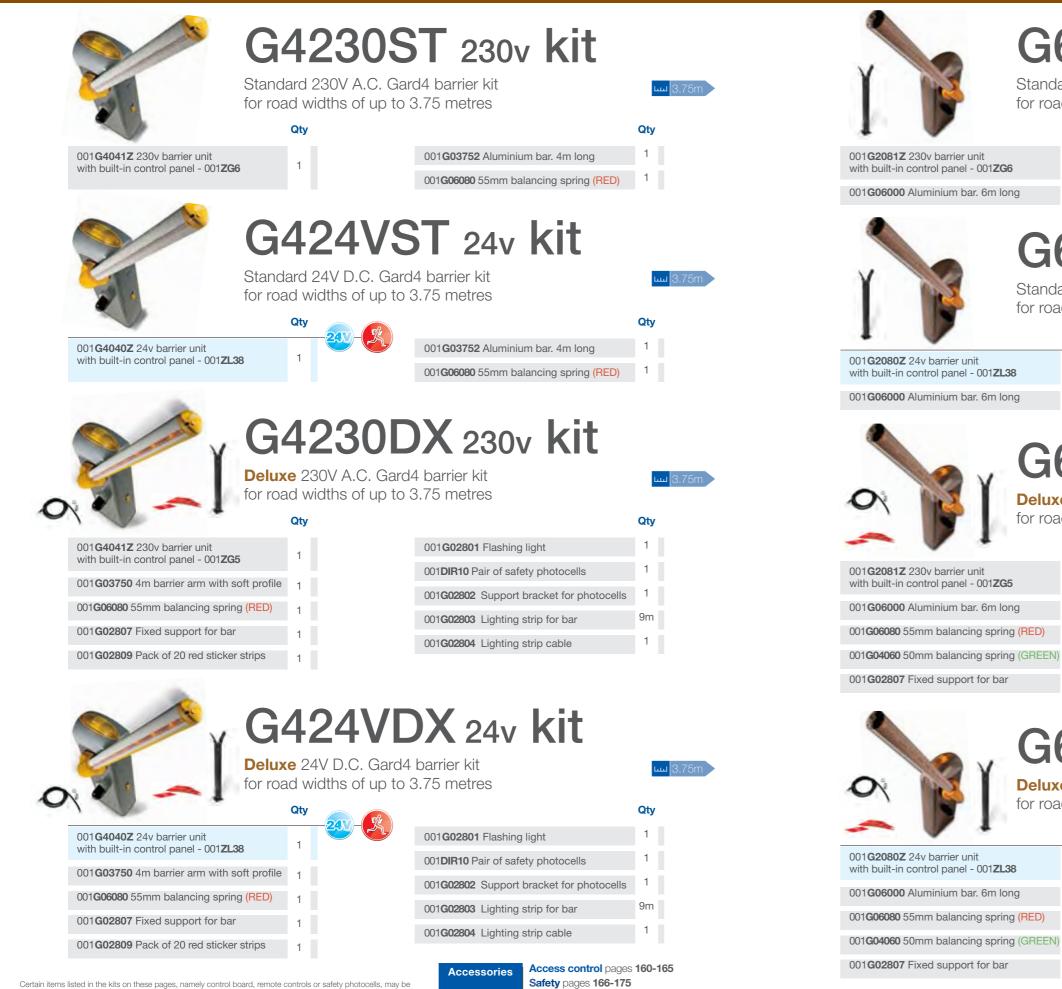
Complete Barrier Kits

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Qtv

Complete Barrier Kits



Radio control pages 176-189

Certain items listed in the kits on these pages, namely control board, remote controls or safety photocells, may be substituted without prior notice for a comparative alternative if the advertised item code is temporarily out of stock.

technical specifications & operational limits for all barriers shown below can be found on pages 98-106



G6230ST 230v kit

Standard 230V A.C. Gard8 barrier kit for road widths of up to 5.6 metres



	Qty
001 G02807 Fixed support for bar	1
001 G06080 55mm balancing spring (RED)	1
001 G04060 50mm balancing spring (GREEN)	1

G624VST 24v kit

Standard 24V D.C. Gard8 barrier kit for road widths of up to 5.6 metres

	Qty
001 G02807 Fixed support for bar	1
001 G06080 55mm balancing spring (RED)	1
001 G04060 50mm balancing spring (GREEN)	1



NOTE: Battery back-up is also See page 107 for

1

Qty



for road widths of up to 5.6 metres

001 G02809 Packs of 20 red sticker strips	2	
001 DIR10 Pair of safety photocells	1	
001G02802 Support bracket for photocells	1	
	10	
001G02803 Lighting strip for bar	13m	
001 G02803 Lighting strip for bar 001 G02804 Lighting strip cable	1	

G624VDX 24v kit

NOTE: Battery back-up is also available for this kit. See page 107 for more information

Otv



Deluxe 24V D.C. Gard8 barrier kit for road widths of up to 5.6 metres

001 G02809 Packs of 20 red sticker strips	2
001DIR10 Pair of safety photocells	1
001G02802 Support bracket for photocells	1
001G02803 Lighting strip for bar	13m
001G02804 Lighting strip cable	1
001 G02801 Flashing light	1

PARKING BARRIERS

⁹⁶ Complete Barrier Kits

4

technical specifications & operational limits for all barriers shown below can be found on page 106

Summary of features

•		
Go2303	ST 230v kit	
Standard 230V A.C. Ga		ما 7.6m
for road widths of up to	7.6 metres	
Qty		Qty
001 G2081Z 230v barrier unit with built-in control panel - 001 ZG6	001G02807 Fixed support for bar	1
001 G04000 Aluminium bar. 4m sections	001 G06080 55mm balancing spring (RED)	2
-	001 G06803 Arm section connecting joint	1
G824VS	ST 24v kit	
Standard 24V D.C. Gard		7.0
for road widths of up to		7.6m لسا
Qty		Qty
001 G2080Z 24v barrier unit	001G02807 Fixed support for bar	1
with built-in control panel - 001 ZL38	001 G06080 55mm balancing spring (RED)	2
001 G04000 Aluminium bar. 4m sections 2	001 G06803 Arm section connecting joint	1
	NOTE	: Battery back-up is also
Cable Control of the second se	JX 230v KIT 8 barrier kit	available for this kit. See page 107 for more information. 7.6m
Deluxe 230V A.C. Gard for road widths of up to Qty 001G2081Z 230v barrier unit	8 barrier kit	available for this kit. See page 107 for more information.
Deluxe 230V A.C. Gard for road widths of up to Qty 001G2081Z 230v barrier unit with built-in control panel - 001ZG5 1	8 barrier kit 7.6 metres	available for this kit. See page 107 for more information.
Deluxe 230V A.C. Gard for road widths of up to Qty Qty 001G2081Z 230v barrier unit with built-in control panel - 001ZG5 1 001G04000 Aluminium bar. 4m sections 2	8 barrier kit 7.6 metres 001 G02809 Packs of 20 red sticker strips	available for this kit. See page 107 for more information.
Deluxe 230V A.C. Gard for road widths of up to Qty Qty 001G2081Z 230v barrier unit with built-in control panel - 001ZG5 1 001G04000 Aluminium bar. 4m sections 2 001G06080 55mm balancing spring (RED) 2	8 barrier kit 7.6 metres 001 G02809 Packs of 20 red sticker strips 001 DIR10 Pair of safety photocells	available for this kit. See page 107 for more information.
Deluxe 230V A.C. Gard for road widths of up to or out widths of up to or out with solution of up to or out with solution of up to out with built-in control panel - 001ZG5 1 001G04000 Aluminium bar. 4m sections 2 001G06080 55mm balancing spring (RED) 2 001G06803 Arm section connecting joint 1	8 barrier kit 7.6 metres 001 G02809 Packs of 20 red sticker strips 001 DIR10 Pair of safety photocells 001 G02802 Support bracket for photocells	available for this kit. See page 107 for more information. Qty 2 1 1
Deluxe 230V A.C. Gard for road widths of up to Qty Qty 001G2081Z 230v barrier unit with built-in control panel - 001ZG5 1 001G04000 Aluminium bar. 4m sections 2 001G06080 55mm balancing spring (RED) 2	8 barrier kit 7.6 metres 001 G02809 Packs of 20 red sticker strips 001 DIR10 Pair of safety photocells 001 G02802 Support bracket for photocells 001 G02803 Lighting strip for bar	available for this kit. See page 107 for more information. Qty 2 1 1
Deluxe 230V A.C. Gard for road widths of up to or od widths of up to or od widths of up to or od widths of up to one of the sectors 001G02081Z 230v barrier unit with built-in control panel - 001ZG5 1 001G04000 Aluminium bar. 4m sections 2 001G06080 55mm balancing spring (RED) 2 001G06803 Arm section connecting joint 1 001G02807 Fixed support for bar 1	8 barrier kit 7.6 metres 001G02809 Packs of 20 red sticker strips 001DIR10 Pair of safety photocells 001G02802 Support bracket for photocells 001G02803 Lighting strip for bar 001G02804 Lighting strip cable 001G02801 Flashing light	available for this kit. See page 107 for more information. Qty 2 1 1
Deluxe 230V A.C. Gard for road widths of up to Qty 001G2081Z 230v barrier unit with built-in control panel - 001ZG5 1 001G04000 Aluminium bar. 4m sections 2 001G06080 55mm balancing spring (RED) 2 001G06803 Arm section connecting joint 1 001G02807 Fixed support for bar 1 1 001G02807 Fixed support for bar 1	8 barrier kit 7.6 metres 001G02809 Packs of 20 red sticker strips 001DIR10 Pair of safety photocells 001G02802 Support bracket for photocells 001G02803 Lighting strip for bar 001G02804 Lighting strip cable 001G02801 Flashing light	available for this kit. See page 107 for more information. Qty 2 1 1 1 17m 1 1 3 : Battery back-up is also available for this kit. See page 1047 for more information.
Deluxe 230V A.C. Gard for road widths of up to Cty 001G2081Z 230v barrier unit with built-in control panel - 001ZG5 1 001G04000 Aluminium bar. 4m sections 2 001G06803 55mm balancing spring (RED) 2 001G06803 Arm section connecting joint 1 001G02807 Fixed support for bar 1 1 001G02807 Fixed support for bar 1 0 Cty 001G2080Z 24v barrier unit	8 barrier kit 7.6 metres 001G02809 Packs of 20 red sticker strips 001DIR10 Pair of safety photocells 001G02802 Support bracket for photocells 001G02803 Lighting strip for bar 001G02804 Lighting strip cable 001G02801 Flashing light	available for this kit. See page 107 for more information. Qty 2 1 1 1 17m 1 1 3 : Battery back-up is also available for this kit. See page 1047 for more information.
Deluxe 230V A.C. Gard for road widths of up to Qty 001G2081Z 230v barrier unit with built-in control panel - 001ZG5 1 001G06080 55mm balancing spring (RED) 2 001G06803 Arm section connecting joint 1 001G02807 Fixed support for bar 1 1 001G02807 Fixed support for bar 1 1	8 barrier kit 7.6 metres 001G02809 Packs of 20 red sticker strips 001DIR10 Pair of safety photocells 001G02802 Support bracket for photocells 001G02803 Lighting strip for bar 001G02804 Lighting strip cable 001G02801 Flashing light DX 24v Kit barrier kit 7.6 metres	available for this kit. See page 107 for more information. Qty 2 1 1 1 17m 1 1 3 Battery back-up is also available for this kit. See page 1047 for more information. Qty
Deluxe 230V A.C. Gard for road widths of up to Qty 001G2081Z 230v barrier unit with built-in control panel - 001ZG5 001G04000 Aluminium bar. 4m sections 2 001G06803 Arm section connecting joint 1 001G02807 Fixed support for bar 1 001G02807 Fixed support for bar 2	8 barrier kit 7.6 metres 001G02809 Packs of 20 red sticker strips 001DIR10 Pair of safety photocells 001G02802 Support bracket for photocells 001G02803 Lighting strip for bar 001G02804 Lighting strip cable 001G02801 Flashing light DX 24v Kit barrier kit 7.6 metres 001G02809 Packs of 20 red sticker strips	available for this kit. See page 107 for more information. Qty 2 1 1 1 17m 1 1 3 Battery back-up is also available for this kit. See page 1047 for more information. Qty
Deluxe 230V A.C. Gard for road widths of up to determine the section of the sect	8 barrier kit 7.6 metres 001G02809 Packs of 20 red sticker strips 001DIR10 Pair of safety photocells 001G02802 Support bracket for photocells 001G02803 Lighting strip for bar 001G02804 Lighting strip cable 001G02801 Flashing light DX 24v Kit barrier kit 7.6 metres 001G02809 Packs of 20 red sticker strips 001DIR10 Pair of safety photocells	available for this kit. See page 107 for more information. Qty 2 1 1 1 17m 1 1 3 Battery back-up is also available for this kit. See page 1047 for more information. Qty
Deluxe 230V A.C. Gard for road widths of up to Qty 001G2081Z 230v barrier unit with built-in control panel - 001ZG5 001G04000 Aluminium bar. 4m sections 2 001G06803 Arm section connecting joint 1 001G02807 Fixed support for bar 1 001G02807 Fixed support for bar 2	8 barrier kit 7.6 metres 001G02809 Packs of 20 red sticker strips 001DIR10 Pair of safety photocells 001G02802 Support bracket for photocells 001G02803 Lighting strip for bar 001G02804 Lighting strip cable 001G02801 Flashing light DX 24v Kit barrier kit 7.6 metres 001G02809 Packs of 20 red sticker strips 001DIR10 Pair of safety photocells 001G02802 Support bracket for photocells	available for this kit. See page 107 for more information. Qty 2 1 1 1 1 17m 1 1 1 3 : Battery back-up is also available for this kit. See page 1047 for more information. Qty 2 1 1 1 1

001 G02801 Flashing light

Parking barriers

OPERATORS – SERIES		G2500	G4000 G4001 G6000 G6001	GARD4 GARD8	GARD4 GARD8	G12000	CAT-X	CAT-X24	UNIPAF
			ZL37		ZL38	ZL37B		ZL37C	ZL22
FUNCTIONAL FEATURES									
SELF-DIAGNOSIS of active safety devices function				٠					
Opening and closing PREFLASHING function			•	•	•	•		•	
REOPENING during closing function		•	•	•	•	•	٠	•	•
RECLOSING during opening function									
Obstacle STALL function	<u> </u>								
TOTAL STOP function	FET	•	•	•	•	•	•	•	٠
PARTIAL STOP of the gate-leaf function	SA								
OBSTACLE DETECTION function on photocells	- 10		•	•	•	•		•	
ENCODER operation									
MOVEMENT CONTROL and obstacle detection device	- 10			•					
AMPEROMETRIC DETECTION function			٠		٠	٠		•	٠
	_								
1 leaf PEDESTRIAN OPENING function	- 12								
1 leaf PARTIAL OPENING function									
TRANSMITTER OPEN ONLY function	- 82		•	•	•	•			
OPEN ONLY button connection function		•	•	٠	٠	٠	٠	•	
CLOSE ONLY button connection function		•	•	•	•	•	•	•	
OPEN-STOP-CLOSE-STOP button connection function	COMMAND								
OPEN-CLOSE-REVERSE button connection function	WN	•	•	•	•	•	•	•	•
MAINTAINED ACTION command function	0	•	٠	٠	٠	٠	٠	٠	
1st leaf DELAYED CLOSING function									
2st leaf DELAYED CLOSING function									
IMMEDIATE CLOSING function			•	•	•	•		•	
EMERGENCY RELEASE function from the remote control									
FLASHING LIGHT connection		•	•	•	•	•	•	•	
CYCLE LAMP connection									
COURTESY LAMP connection	- 11								
Antenna connection	- 11		•			•			
24V ACCESSORIES connections	- 84								
OPEN WARNING LIGHT connection	- 11					•			•
CLOSED WARNING LIGHT connection	- 11	•			•		•		
Contact output for 2nd RADIO CHANNEL	- 11	•					•		
Adjusting RUNNING TIME	- 84	•							
EXTRACTABLE, NUMBERED connection terminals	~	•	•	•	•	•		•	
	E 7				•				
SELF-LEARNING function of the transmitter's RADIO code RAM BLOW function to aid the release of the electrolock	FUNCTIONALITY		•		•			•	
	NCT	•	•	•	•	•	•	•	
Adjustable AUTOMATIC RE-CLOSING TIME function	5	•	•		•	•	•	•	
ELECTROLOCK/ELECTRORELEASE connection output				•					
OPENING AND/OR CLOSING deceleration					•				
EMERGENCY-BATTERY operation (optional)	_		•		•	٠		•	•
MASTER-SLAVE operation mode				•	•				
Adjustable RUNNING SPEED AND DECELERATION function			•		•	•		•	
Warning DISPLAY									
Electronic BRAKE					•				
CONTROL and warning led			•	•	•	•		•	٠
SELF-LEARNING function of the opening and closing endstops									

Access control pages 160-165 Safety pages 166-175 Radio control pages 176-189



97

PARKING BARRIERS

Gard Parking barriers

The fast automatic barriers.

For road widths of 2.5m, 4m and up to 6.5 metres, the Gard series of automatic barriers are the ideal solution for private or public zones of high passage intensity.



The versatile solution. The Gard series barriers can be installed on either the right or left of the roadway. Installation is guick and easy, and no pre-assembly is required.

Also in stainless steel. The G4001 model comes with a stainless steel cabinet for installations located in particularly exposed areas.



Absolute modularity. Safety accessories such as flashing light and photocells are applied directly onto the cabinet.

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		6 A 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	1.1	



The Gard series features models with 24V D.C. motors, which always yield maximum performance without compromising safety. These models are suitable for all settings that have intensive use requirements.

Advantages of Gard

Easy to install, they come complete with a full range of accessories such as various-section bars, lamps, racks, fixed supports. They do not require any additional assembly and, when installed in conjunction with the appropriate safety accessories, comply with the requirements of modern system engineering.

for road widths of 2.5 - 4 - 6.5 m

for road widths of 8'2" - 13'1" - 21'3" ft

The G2500 fast opening model is powered by 230V while the G4000 and G6000 models (including stainless steel versions) are fitted with a 24V D.C. operator and suitable for intensive use. Once installed, they do not require frequent periodic maintenance.

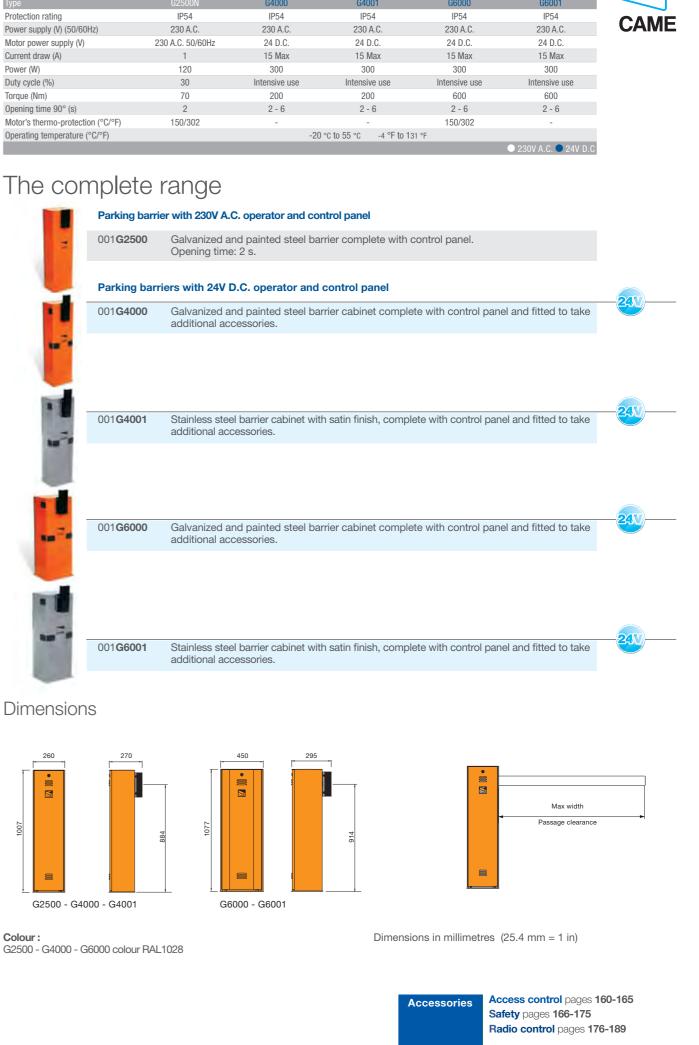
	Limits to use			
	Model	G2500	G4000 - G4001	G6000 - G6001
	Composition of the bar	Max width of road (
	Standard bar	2.5 / 8'2"	4 / 13'	6.5 / 22'
	Bar with G0403 rubber and G0460 lamps	-	3.5 / 11'	6 / 20'
	Bar with G0463 mobile support	-	3.5 / 11'	6 / 20'
4	Bar with G0403 rubber, G0460 lamps			
	and G0465 rack or G0463 mobile support	-	2.5 / 8'2"	6 / 20'
	Bar with G0465 rack and G0463 mobile support	-	2 / 6'5"	
	Bar with G0403 rubber, G0460 lamps			5.5 / 18'
	G0465 rack and G0463 mobile support	-	-	
			• 230V	A.C. • 24V D.C.

Tochnical foaturos

Technical leatures	5		
Туре	G2500N	G4000	G4
Protection rating	IP54	IP54	IP
Power supply (V) (50/60Hz)	230 A.C.	230 A.C.	230
Motor power supply (V)	230 A.C. 50/60Hz	24 D.C.	24
Current draw (A)	1	15 Max	15
Power (W)	120	300	3
Duty cycle (%)	30	Intensive use	Intens
Torque (Nm)	70	200	2
Opening time 90° (s)	2	2 - 6	2
Motor's thermo-protection (°C/°F)	150/302	-	
Operating temperature (°C/°F)			-20 °C to 55 °C

The complete range

		_
	Parking barri	er with 230V A.C. operator and control par
1	001 G2500	Galvanized and painted steel barrier com Opening time: 2 s.
	Parking barr	iers with 24V D.C. operator and control
	001 G4000	Galvanized and painted steel barrier cabi additional accessories.
•	001 G4001	Stainless steel barrier cabinet with satin fin additional accessories.
10.00	001 G6000	Galvanized and painted steel barrier cabi additional accessories.
	001 G6001	Stainless steel barrier cabinet with satin fin additional accessories.
and the second se		



Gard

Gard 100

The complete range

Accessories for Parking barrier with 230V A C operator

5
1
-
1
1.
1 m m

	Accessories for	or Parking barrier with 230V A.C. operator
1	001 G0251	White painted aluminium bar. Section: 60 x 40 x 2700 mm.
4	001 G0257	Joint for bar.
1	Accessories for	or Parking barriers with 24V D.C. operator
	002 LB38	Card for connecting 3 x 12V-7Ah emergency batteries for: G4000 - G4001 - G6000 and G6001 barriers.
1.645	Accessories for	or Parking barriers
1	001 G0401	White painted aluminium bar for G4000 and G4001 barriers. Section: 60 x 40 x 4200 mm
-	001 G0402	White painted aluminium bar for G4000 and G4001 barriers. Section: \emptyset 60 x 4200 mm (for areas subject to strong wind).
	001 G0461	Red adhesive refracting strips for bars (24-pieces package)
1	001 G0405	Fitting for G0402 bar.
1	001 G0403	Impact-resistant red protective rubber, complete with stoppers for G0601 bar.
1	001 G0460	Package of 6 x 24V signalling lamps for G0401 bars.
	001 G0465	Skirt for painted aluminium bar for G4000 - G4001 - G6000 - G6001 barriers (2 m / 6'6" ft modules). Note: We do not recommend that this skirt is fitted in areas that may be subject to windy conditions.
Щ		
C	001 G0467	Joint for bars. For G4000 - G4001 - G6000 - G6001 barriers.
V.		
7	001 G0462	Fixed support for bar. For G2500 - G4000 - G4001 - G6000 - G6001 barriers.
1	001 G0463	Mobile support for bar. For G4000 - G4001 - G6000 - G6001 barriers.

The complete range

1	001 G0601	Rectangular-section aluminium bar 40 x 10 For G6000 - G6001 barriers.
1	001 G0603	Impact-resistant red protective rubber, con
	001 G0602	Tubular aluminium bar \emptyset 100 x 6850 mm F (special accessory for areas subject to stro
Self.	001 G0605	Fitting for G0602 tubular bar.
	001 G04601	Adapter for application of the Kiaro flashing
	CGE	Coin operator unit.
	GET-2	1 x double grooved token coin for coin read
	GET-2-50	50 x double grooved token coins for coin m
	GET-2-100	100 x double grooved token coins for coin
	GET-3	1 x triple grooved token coin for coin reade
	GET-3-50	50 x triple grooved token coins for coin rea
	GET-3-100	100 x triple grooved token coins for coin re



Support for applying Doc series photocells on the cabinet. For G4000 - G4001 - G6000 - G6001 barriers. 001**G0468**



101 Gard

100 x 6850 mm

mplete with stoppers for G0601 rectangular bars.

For G6000 - G6001 barriers rong winds).

ng lights.

ader

reader

n reader

ader

reader

Accessories

Access control pages 160-165 Safety pages 166-175 Radio control pages 176-189

Gard4 Parking barriers

A new concept of automatic barriers. Gard4 is the new automatic parking barrier, engineered to manage vehicle access in both residential and commercial situations. Soft profiles and rounded corners counteract the sail effect in a barrier that integrates perfectly into a variety of installation contexts.



Design, materials, technology. The exclusive built-in flashing lamp with lighted LED diffuser needs no special maintenance and ensures complete visibility of the warning light.

The protective guard on the bar is a standard feature protecting the user from possible risk when the bar is in motion.

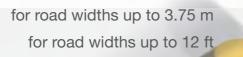


Modular design. Both the flashing lamp and photocells are installed directly onto the cabinet and integrate harmoniously and aesthetically with the system.





The Gard series also features models with 24V D.C motors, which always yield maximum performance without compromising safety.





Advantages of Gard4

Designed for a range of road widths up to 3.75m (12 ft), the new Gard barriers are the ideal solution for control of access to roads and parking areas in industrial and public settings.

The Gard series is available in the 230V A.C. motor and the 24V D.C motor versions and in a special version with stainless steel cabinet for those installations where high durability is important, such as in coastal areas with high salt content in the air.

Limits to use	
Model	G4041Z - G4040Z - G4040IZ
Composition of the bar	Max width of road (m / ft)
Bar with shock-resistant profile	3.75 / 12'3"
G02803 bar with shock-resistant profile and luminous cord	3.75 / 12'3"
Bar with G0465 rack	3.75 / 12'3"
Bar with G02803 luminous cord and G0465 rack	3.75 / 12'3"
Bar with shock-resistant profile and G02808 mobile support	3.75 / 12'3"
Bar with shock-resistant profile, G02803 luminous cord and	3.75 / 12'3"
and G02808 mobile support	
Bar with G0465 rack and G02808 mobile support	3.5 / 11'5"
Bar with G02803 luminous cord, G0465 rack and G02808 mobile support	3.5 / 11'5"
	● 230V A.C. ● 24V D.C.

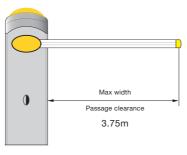
Technical features

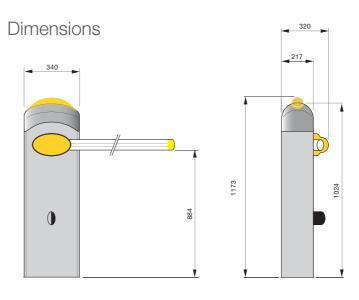
iechinical leatures		
Туре	G4041Z	
Protection rating	IP54	
Power supply (V) (50/60Hz)	230 A.C.	
Motor power supply (V)	230 A.C. 50/60Hz	
Current draw (A)	1	
Power (W)	120	
Duty cycle (%)	30	
Torque (Nm)	220	
Opening time 90° (s)	8	
Motors thermo-protection (°C/°F)	150/302	
Operating temperature (°C/°F)		-20 °C to 55 °C

Accessories and Installation

Depending on the configuration of the accessories required for mounting the boom, different kinds of springs are available to provide the best possible balance of movement. The table shows the possible combinations of the various accessories and the maximum length of the moving boom. Standard issue booms come with transparent profiles and head cap.

	Max width of road (m)								3.25	3.5	
Composition of the bar	Max width of road (ft)			6'6"		8'2"		9'8"			12'
Bar with shock-resistant profile		•	•	•	•	•	•	•	•	•	•
G02803 bar with shock-resistant profile	e and luminous cord	•	•	•	•	•	•	•	•	•	•
Bar with G0465 rack		•	•	•	•	•	•	•	•	•	•
Bar with G02803 luminous cord and G0	0465 rack	•	•	•	•	•	•	•	•	•	•
Bar with shock-resistant profile and GO	2808 mobile support	•	•	•	•	•	•	•	•	•	•
Bar with shock-resistant profile, G0280	3 luminous cord and G02808 mobile support	•	•	•	•	•	•	•	•	•	•
Bar with G0465 rack and G02808 mobile support		•	•	•	•	•	•	•	•	•	-
Bar with G02803 luminous cord, G0465	5 rack and G02808 mobile support	•	•	•				•		•	-





Colour : CABINET Grey textured cod. 053 0837 - COVER RAL9006



		G4040Z - G4040IZ
		IP54
		230 A.C.
		24 D.C.
		15 Max
		300
		Intensive use
		400
		2 - 6
		-
;	-4 °F to 131 °F	
		─ 230V A.C. ● 24V D.C

• G02040 balancing spring - ø 40 mm

• G04060 balancing spring - ø 50 mm

• G06080 balancing spring - ø 55 mm





Gard4

4

The complete range



Parking barrier with 230V A.C. operator and control panel

001**G4041Z** Galvanized and painted steel barrier cabinet **complete with control panel** and fitted to take additional accessories.



001**G4040Z** Galvanized and painted steel barrier cabinet **complete with control panel** and fitted to take additional accessories.

001**G4040IZ** Satin finish stainless steel barrier cabinet **complete with control panel** and fitted to take additional accessories.

Accessories for Parking barriers with 24V D.C. operator

.B38 Card for connecting 3 x 12V-7Ah emergency batteries.

001**G03751** Emergency battery rack.

001**G02808** Mobile support for bars.

Accessories for Parking barrier with 230V A.C. operator

Enables "Master & Slave" functionality for a pair of barriers. (for ZG5)

-	3
0	0
1	9

Accessories	for Parking barriers with 230V A.C. and 24V D.C. operator
001 G02040	Balancing spring ø 40 mm
001 G04060	Balancing spring ø 50 mm
001 G06080	Balancing spring ø 55 mm
001 G02801	Dome-shaped flashing light.
001 G02802	Support for series Dir photocells. Do not use with barriers with G0465 rack and/or G02808 mobile support.

001**G03750** White painted semi-oval aluminium bar with slot cover and impact-resistant profiles. Length = 4 m / 13'1" ft.

Accessories Access control pages 160-165 Safety pages 166-175 Radio control pages 176-189

The complete range

	001 G03752	White painted oval aluminium bar with slot
	001 G03753	Securing flange for G03752 oval bar.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Q	001 G02803	Lighting strip for bar.
5	001 G02804	Lighting strip cable.
TIT	001 G0465	Skirt for painted aluminium bar (2 m / 6'6
111		Note: We do not recommend that this skirt is fitte
Y	001 G02807	Fixed support for bar.
1		
	001 G02809	Red adhesive reflective strips for bars (pa
	CGE	Coin operator unit.
. =	GET-2 GET-3	Grooved token coins for coin reader. Availa Order in packs of 1, 50 and 100.

Also in stainless steel



Gard4 barriers can also be fitted with a stainless steel cabinet, for applications when tougher weather conditions make it necessary to protect the durability of the system.



Gard4

t cover profile L = 4 m / 13'1" ft.

6" ft modules). ted in areas that may be subject to windy conditions.

back of 20)

able with double or triple groove pattern.

Easy maintenance



The control panel is positioned horizontally on the upper part of the cabinet. Just remove the small dome-shaped cover to gain immediate, easy access when performing any scheduled maintenance operations.

Gard8 Parking barriers

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A new concept of automatic barriers.

The Gard8 automatic barrier is the ideal solution for control of access to roads and parking areas in private or public zones of high passage intensity. Soft profiles and rounded corners counteract the sail effect in a barrier that integrates perfectly into a variety of installation contexts.



Design, materials, technology. The exclusive built-in flashing lamp with lighted LED diffuser needs no special maintenance and ensures complete visibility of the warning light.

The protective guard on the bar is a standard feature protecting the user from possible risk when the bar is



Advantages of Gard8

areas in industrial and public settings.

with high salt content in the air.

Limits to use

Bar with G02808 mobile support

Bar with G02803 luminous cord

Bar with G0465 rack

Bar with G02808 mobile support and G02803 luminous cord

Bar with G0465 rack and G02803 luminous cord

Standard bar

Designed for larger road widths up to 7.6m (25 ft), the Gard series of

barriers are the ideal solution for control of access to roads and parking

The Gard series is available in the 230V A.C. motor and the 24V D.C motor

versions and in a special version with stainless steel cabinet for those

installations where high durability is important, such as in coastal areas

Z - G2080Z - G2080

7.6 / 25'

7 / 23'

7.6 / 25'

7 / 23'

7 / 23'

7 / 23'

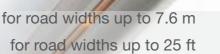
○ 230V A C ● 2

Modular design. Both the flashing lamp and photocells are installed directly onto the cabinet and integrate harmoniously and aesthetically with the svstem.

in motion.



The Gard series also features models with 24V D.C operators, which always yield maximum performance without compromising safety.



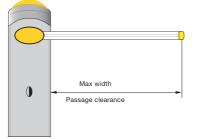
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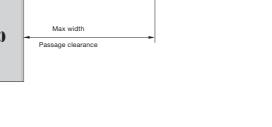
rechnical realures		
Туре	G2081Z	
Protection rating	IP54	
Power supply (V) (50/60Hz)	230 A.C.	
Motor power supply (V)	230 A.C. 50/60Hz	
Current draw (A)	2.8	
Power (W)	330	
Duty cycle (%)	30	
Torque (Nm)	250	
Opening time 90° (s)	8	
Motor's thermo-protection (°C/°F)	150/302	
Operating temperature (°C/°F)		-20 °C to 55 °C

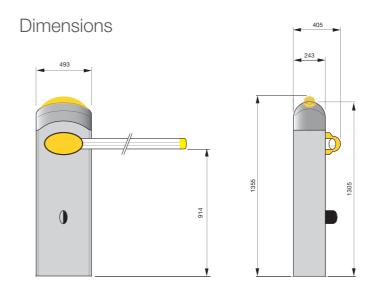
Accessories and Installation

Depending on the configuration of the accessories required for mounting the arm, different kinds of springs are available to provide the best possible balance of movement. The table shows the possible combinations of the various accessories and the maximum length of the moving boom. Standard issue arms come with transparent profiles and end cap.

Max width of road (m)				3.5		4.5			6.5		
Max width of road (ft)	6'6"	8'2"	9'8"		13'1"	14'8"	16'4"			23'	
	•	•	•	••	٠	• •	• •	••	••	• •	••
Standard bar and G02808 mobile support		•	••	••	• •	• •	••	••	••	••	-
Standard bar and G02803 luminous cord		•	••	••	••	••	••	••	••	••	••
Bar with G02808 mobile support and G02803 luminous cord		••	••	•	••	••	••	••	••	••	-
Standard bar and G0465 rack		•	••	•	• •	••	••	••	••	••	-
minous cord									••	••	-
	Max width of road (ft)	Max width of road (ft) 6'6"	Max width of road (ft) 6'6" 8'2"	Max width of road (ft) 6'6" 8'2" 9'8" Max width of road (ft) 6'6" 8'2" 9'8" Image: Second state of the second state	Max width of road (ft) 6'6" 8'2" 9'8" 11'5" Image: Second s	Max width of road (ft) 6'6" 8'2" 9'8" 11'5" 13'1" Max width of road (ft) 6'6" 8'2" 9'8" 11'5" 13'1" It Image: state stat	Max width of road (ft) Max width of road (ft) 6'6" 8'2" 9'8" 11'5" 13'1" 14'8"	Max width of road (ft) 6'6" 8'2" 9'8" 11'5" 13'1" 14'8" 16'4" t •	Max width of road (ft) 6'6" 8'2" 9'8" 11'5" 13'1" 14'8" 16'4" 18' t •	Max width of road (ft) 6'6" 8'2" 9'8" 11'5" 13'1" 14'8" 16'4" 18' 21'3" t •	Max width of road (ft) 6'6" 8'2" 9'8" 11'5" 13'1" 14'8" 16'4" 18' 21'3" 23' Image: Second secon







Colour: CABINET Grey textured cod. 053 0837 - COVER RAL9006



		G2080Z - G2080IZ
		IP54
		230 A.C.
		24 D.C.
		15 Max
		300
		Intensive use
		600
		4 - 8
		-
;	-4 °F to 131 °F	
		● 230V A.C. ● 24V D.C.

• G02040 balancing spring - ø 40 mm • G04060 balancing spring - ø 50 mm • G06080 balancing spring - ø 55 mm



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Gard8

Gard8

The complete range



Parking barrier with 230V A.C. operator and control panel

001 G2081Z Galvanized and painted steel barrier complete with control panel and fitted to take additional accessories.



002**LB38**

Accessories

001 G2080Z Galvanized and painted steel barrier complete with control panel and fitted to take additional accessories.

001 G2080IZ Satin finish stainless steel barrier cabinet complete with control panel and fitted to take additional accessories.





001 G02805 Emergency battery rack.

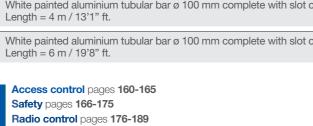
Accessories for Parking barrier with 230V A.C. operator

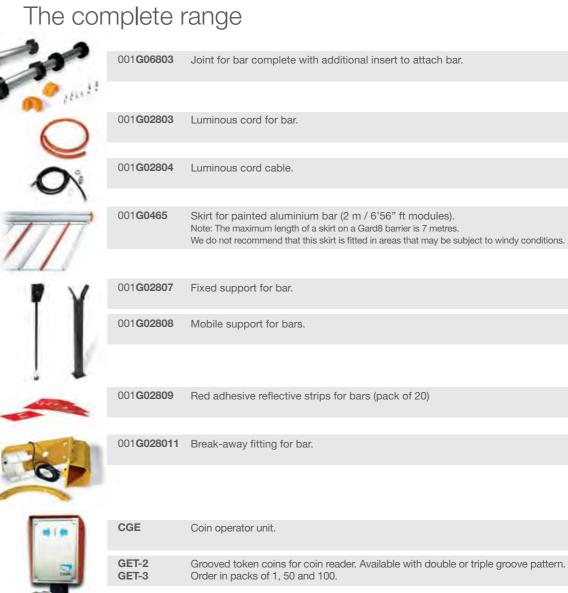
Enables "Master & Slave" functionality for a pair of barriers. (for ZG5) 002**RSE**

Card for connecting 3 x 12V-7Ah emergency batteries.



	Accessories	for Parking barriers with 230V A.C. and 24V D.C. operator	
,	001 G02040	Balancing spring ø 40 mm	
	001 G04060	Balancing spring ø 50 mm	
	001 G06080	Balancing spring ø 55 mm	
	001 G02801	Dome-shaped flashing light.	
	001 G02802	Support for series Dir photocells. Do not use with barriers with G0465 rack and/or G02808 mobile support.	
	001G 02000	White painted aluminium tubular bar ø 100 mm complete with slot cover profile. Length = 2 m / 6'6" ft.	
7	001 G04000	White painted aluminium tubular bar ø 100 mm complete with slot cover profile. Length = 4 m / 13'1" ft.	
	001 G06000	White painted aluminium tubular bar ø 100 mm complete with slot cover profile. Length = $6 \text{ m} / 19$ '8" ft.	





Also in stainless steel



Gard4 barriers can also be fitted with a stainless steel cabinet, for applications when tougher weather conditions make it necessary to protect the durability of the system.





Easy maintenance



The control panel is positioned horizontally on the upper part of the cabinet. Just remove the cover to gain immediate, easy access when performing any scheduled maintenance operations.

Gard12

Parking barriers

High performance barriers for special applications.

The G12000 model is suitable for large industrial and high intensity use passages.

CAME automatic parking barriers are carefully designed to ensure utmost reliability and specialist features suitable for the application context. For broad openings of up to 12 metres the exceptional G12000 barrier outperforms all others.



Double motor, double lasting power. G12000 is equipped with two operators, which are installed along the same axis and provide remarkable torque.

Counterweighted balance. For a safe, reliable boom movement, the system uses a modular counterweighted balancing system, which needs to be set up according to the length of the arm.

Integration and modularity. A special automation system which perfectly integrates with all the CAME command and safety accessories.







The 24V technology provides Gard12, despite the considerable size of the boom that needs to be moved, with the same standard of guarantee and safety provided by the CAME models that run on continual current.

for road widths up to 12 m for road widths up to 40 ft



Applications for Gard12

Two low voltage operators and industrial assembly structure make G12000 the ideal solution for controlling car and lorry parks, work passage areas, loading bays, cargo terminals, motorways and all other applications where fast, safe automation is necessary for large roadways.

A tube bar of different sections allows a 12 m / 40 ft passageway be opened and closed in just 10 seconds, as is often required in loading and unloading situations.

Limits to use		
Model	G12000	
Max width of passage clearance (m / ft)	12 / 40	
1		• 24V D.C.

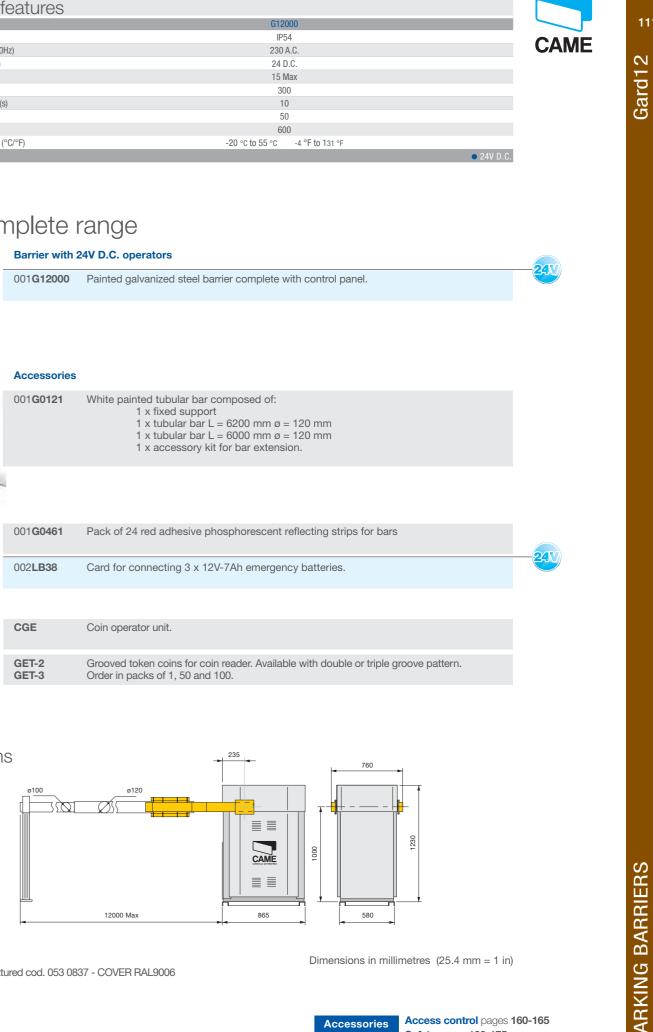
Technical features

Туре	G12
Protection rating	IP
Power supply (V) (50/60Hz)	230
Motor power supply (V)	24
Current draw (A)	15
Power (W)	3
Manoeuvre speed 90° (s)	1
Duty cycle (%)	5
Torque (Nm)	6
Operating temperature (°C/°F)	-20 °C to 55 °C

The complete range

	Barrier with 2	4V D.C. operators
	001 G12000	Painted galvanized steel barrier complete v
U	Accessories	
2.	001 G0121	White painted tubular bar composed of: 1 x fixed support 1 x tubular bar L = 6200 mm ø = 1 x tubular bar L = 6000 mm ø = 1 x accessory kit for bar extens
00		
ALCON.	001 G0461	Pack of 24 red adhesive phosphorescent
	002 LB38	Card for connecting 3 x 12V-7Ah emerger
	CGE	Coin operator unit.
	GET-2 GET-3	Grooved token coins for coin reader. Availab Order in packs of 1, 50 and 100.

Dimensions



Colour: CABINET Grey textured cod. 053 0837 - COVER RAL9006

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Safety pages 166-175 Radio control pages 176-189

Unipark

Parking-space savers

Reserving your parking space is now possible. The Unipark automatic barrier is CAME's innovative solution to reserving a private parking space in any residential or business context.

Convenient and practical, it is made out of galvanised steel and varnished to ensure resistance to corrosion. A command from the radio transmitter makes the bar rise and lower automatically, so there's no need to get out of the vehicle.



Two models to meet all needs. Besides the ARK1 version with the standard barrier. the system is also available with the larger ARK2 barrier, to better cover the area that needs to be reserved. Usually for parking spaces wider than 2 m / 6'6" ft.

Private parking spaces. An innovative idea to reserve ones parking space. Ideal for a range of situations, from inner-city apartment complexes to business premises.



One control panel for 4 parking spaces. With a motor expansion card it is possible to connect up to 4 Uniparks to the same control panel.





Unipark's 24V technology enhances the system's safety level, thanks to its electronic, obstacle detection feature, which blocks movement of the barrier if it touches the vehicle while closing.

Advantages of Unipark

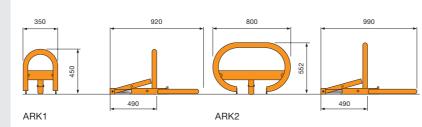
Designed for easy ground installation, Unipark is ideal for all those situations that require private or staff parking spaces to be safeguarded, for any residential or workplace application. It makes it possible to raise and lower the bar by simply using the radio transmitter.

It comes in two different models that adapt to one low-voltage 24v operator, featuring obstacle detection and movement reversal. Unipark offers long-lasting reliability over time.

24V D.C

Limits to use 2/6'5" 2.5 / 8'2"

Dimensions



Dimensions in millimetres (25.4 mm = 1 in)

Туре	
Protection rating	
Power supply (V) (50/60 Hz)	
Motor power supply (V)	
Current draw (A)	
Power (W)	
Manoeuvre time (s)	
Duty cycle (%)	
Resistance to crushing (Kg/cm ² / Ib/in ²)	
Colour	
Operating temperature (°C/°F)	-20 °C to 5

The complete range

	Parking space	e saver barrier with a 24V D.C. operator.
	001 UNIP	Self-locking operator complete with fixi
2		
	Accessories	
\sim	001 ARK1	Small barrier.
	001 ARK2	Large barrier.
	24V D.C. con	trol panel
	002 ZL22	Control panel for one barrier with built-i barriers with 3 additional LM22 cards.
	Accessories	
	002 LM22	Motor-management extension card.
	002 LB22	Card for connecting 2 x 12V-1.2Ah eme
Contraction of the local division of the loc		

			11
UNIPARK IP54			11
230 A.C.		CAME	
24 D.C. 1.7 Max			ark
20			b
10 Intensive use			Unipark
2.5/0.85			
RAL 1028			
55 °C -4 °F to 131 °F	• 24V D.C.		
ng plate.			
n radio decoder. Possibili	ty of controlling up to 4		
ergency batteries with racl	K.		
Accessories	Access control pages 1	160-165	PARKING BARRIERS
	Safety pages 166-175 Radio control pages 17	/6-189	P

Chain parking barriers

Cat

Innovative technology. Reliable performance. CAT is a unique, patented, high-technology product designed to blend harmoniously into a range of architectural environments, both historical and contemporary. Cat is an innovative idea to reserve a parking space or spaces, in any setting, whether residential, industrial or commercial.



Perfect integration. Thanks to its design, CAT is the ideal solution for historically sensitive locations and exclusive residential areas.

An additional service as well. The chain barrier is the ideal solution to limit access to parking areas in order to restrict their use by unauthorised personnel or outside of regular hours.

and its ground guides guarantee excellent protection to the lowered

barrier chain.







CAT is available with 24V D.C operators, which always yield maximum performance without compromising safety, thanks to its electronic obstacle detection and chain-speed movement adjustment features.

for openings of up to 8 m and 16 m

for openings of up to 26 ft and 52'5"



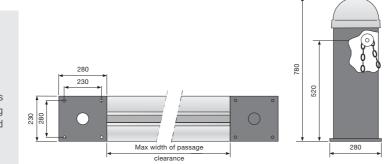
Advantages of CAT

CAT is a unique operator and is available in both the 230V and 24V versions. The great installation flexibility allows for creating automatic chains up to a maximum of 16 metres long with only two bollards and a single chain. One bollard (with built-in control panel and motor) is joined by a chain to the other bollard (with the counterweight). The chain lowers automatically and disappears into the ground guide. CAT is easy to install, can be fitted anywhere and does not require any prior assembly.

Limits to use

	0.00	
Model	CAT-X	CAT-X24
Type of chain	Max width of passage clearance (m / ft)	Max width of passage clearance (m / ft)
9 mm	8 / 26'	8 / 26'
5 mm	16 / 53'	16 / 53'
		230V A.C. 24V D.C

Dimensions



Dimensions in millimetres (25.4 mm = 1 in)

Technical features		
Туре	CAT-X	CAT-X24
Protection rating	IP54	IP54
Power supply (V) (50/60 Hz)	230 A.C.	230 A.C.
Motor power supply (V)	230 A.C. 50/60 Hz	24 D.C.
Current draw (A)	2.7	20 Max
Power (W)	300	240
Manoeuvre time (s)	11	9 - 14
Duty cycle (%)	30	Intensive use
Traction force (Kg/lb)	50/110	50/110
Colour	CABINET Grey textured co	d. 053 0837 - COVER RAL9006
Operating temperature (°C/°F)	-20 °C to 55 °C	-4 °F to 131 °F

The complete range

	230V A.C. chai	n barrier
	001 CAT-X	Bollard with built-in operator and control
	24V D.C. chai	n harrier
0		
	001 CAT-X24	Bollard with built-in operator and control p
	Chain barrier	bollard
	0010471	Dellevel with a subserve inlate and all significant
	001 CAT-I	Bollard with counterweights and chain ho
4.000	Accessories	
	Accessories 002LB38	Card for connecting 3x 12V-7Ah emerger
		Card for connecting 3x 12V-7Ah emerger
		Card for connecting 3x 12V-7Ah emerger 9 mm chain for clearances up to 8 m.
Same and	002 LB38	
	002 LB38 001 CAT-5	
	002 LB38 001 CAT-5	9 mm chain for clearances up to 8 m.
	002 LB38 001 CAT-5	9 mm chain for clearances up to 8 m.
	002 LB38 001 CAT-5 001 CAT-15	9 mm chain for clearances up to 8 m. 5 mm chain for clearances up to 16 m.
	002 LB38 001 CAT-5 001 CAT-15	9 mm chain for clearances up to 8 m. 5 mm chain for clearances up to 16 m.



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Cat

● 230V A C ● 24V D C

panel.

panel.

ooking.

ency batteries (for CAT-X24).

th = 2 m.

ngth = 2 m.

Access control pages 160-165 Safety pages 166-175 Radio control pages 176-189

Accessories



A world of safe automation

www.cameuk.com



Parking systems and access control







The range

The models

The Ps is a complete system designed to manage car parking in small, medium and large commercial settings. The entrance and exit units, together with the cash pay station, are specifically engineered to manage access for both occasional and membership-status users. The system can be set-up to be used with tokens, cards, transponder key-fobs, and coins (in the case of occasional users).

Systems can be configured to have several entrances and exits as well, over a number of floor levels, up to a maximum of 10,000 parking spaces.

The RBM21 is a SIMPLIFIED system for card-based access control for up to 500 users.

The **RBM84** is an EVOLVED access control system.

It works with many types of commands including radio transmitters. Through its dedicated software it can manage up to 5500 users of varying types including member-status users. It is suitable for use in multi-story car parks, company facilities, service centres and many other types of parking facilities. The table below lists the complete range of access control and automatic parking systems to help you quickly choose the right product for the job.

Use			INTENSIVE USE
			R
Series	Model	Places car	
Ps	Barcode	10,000	YES
Ps	Token	10,000	YES
Ps	Easy	-	YES
Rbm84	RBM84	5500	YES
Rbm21	RBM21	500	YES
			230V A.0

Standard recommended installation

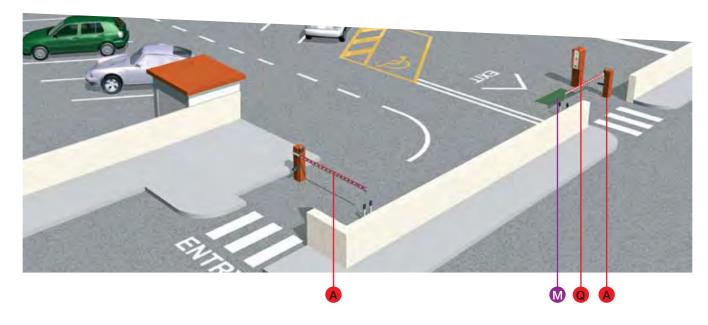
SIMPLIFIED standard installation

TRAINED users and positioned on PUBLIC STREET

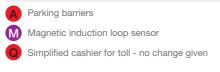
The example below is indicative of simplified car parking systems where users enter freely, park their vehicles and pay a fixed, standard rate, using coins, at the exit.

Important

The equipment shown in the diagram is for information purposes only and the command accessories, such as photocells and induction loop sensors, must be evaluated according to the actual needs of the installation. Standard-issue safety equipment for barriers is shown in the section dedicated to traffic barriers in this catalogue.



Standard Issue



Cable length (m)
Cable length (ft)
Power supply 230V A.C. (12
Power supply 230-400V A.0
 Motor power supply 230V A
Motor power supply 230-40
 Motor power supply 24V D.
O Endstop microswitches
Flashing light 24V A.CD.C.
Flashing light 230V A.C. (12
 TX Photocell
 RX Photocell
 Electric lock 12V D.C.
 Electric lock 24V D.C.
 Commands
Antenna

Automatic Gard barriers



The Gard series of automatic barriers naturally complement our automatic parking system. Available with 230V A.C. and 24V D.C. motors, they fit perfectly with the entrance and exit units and allow for quick passage selection.



LIBER

Note: The PS parking system is under continual on-going improvement. Please contct us before quoting a CAME parking system to ensure you have the latest product information.



	<10		10 - 20		20 - 30	
		< 32' 8"		32' 8" - 65' 6"		65' 6"- 98' 4'
OV A.C.) 750W Max	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG14	3Gx1.5mm ²	3GxAWG14
. 3-phase 750W Max	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15
.C. (120V A.C.) 750W Max	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG15
OV A.C. 3-phase 750W Max	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15
C 400W Max	2Gx1.5mm ²	2GxAWG15	2Gx2.5mm ²	2GxAWG13	2Gx2.5mm ²	2GxAWG13
	*n°x0.5mm ²	n°xAWG20	*nx0.5mm ²	n°xAWG20	*nx0.5mm ²	n°xAWG20
25W	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17
OV A.C.) 25W	2x1.5mm ²	2xAWG15	2x1.5mm ²	2xAWG15	2x1.5mm ²	2xAWG15
	2x0.5mm ²	2xAWG20	2x0.5mm ²	2xAWG20	2x0.5mm ²	2xAWG20
	4x0.5mm ²	4xAWG20	4x0.5mm ²	4xAWG20	4x0.5mm ²	4xAWG20
	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1.5mm ²	2xAWG15
	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17
	*n°x0.5mm²	n°xAWG20	*n°x0.5mm²	n°xAWG20	*n°x0.5mm²	n°xAWG20
			RG58 Max 10)m 32' 8" ft		

n° = see documentation
 European standards
 US standards

The new simplified parking system



The PSM5000 is the new, simplified, parking management system, where the parking rate is fixed and payable in coins. The unit comes with a coin reader and display, and can be integrated with a transponder card reader which could manage pre-paid subscription passes for the facility

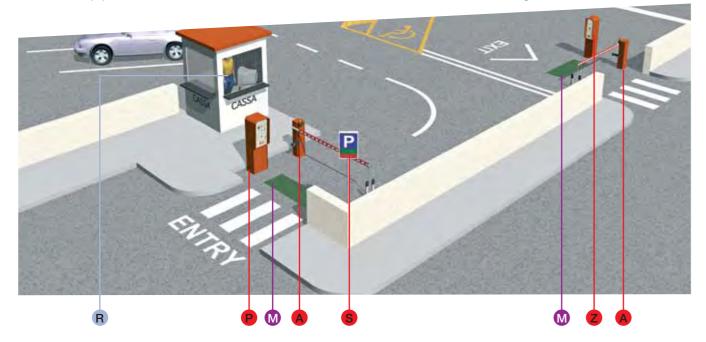
Standard installation with MANUAL CASHIER

TRAINED users and positioned on PUBLIC STREET

The example shown is indicative of an attended parking system with manual toll management.

Important

The equipment shown in the diagram is for information purposes only and the command accessories, such as photocells and induction loop sensors, must be evaluated according to the actual needs of the installation. Standard-issue safety equipment for barriers is shown in the section dedicated to traffic barriers in this catalogue.



Standard Issue

A	Parking barriers
M	Magnetic induction loop sensor
Z	Exit unit
P	Entry unit
R	Attended manual cashier
S	Free / Full luminous sign

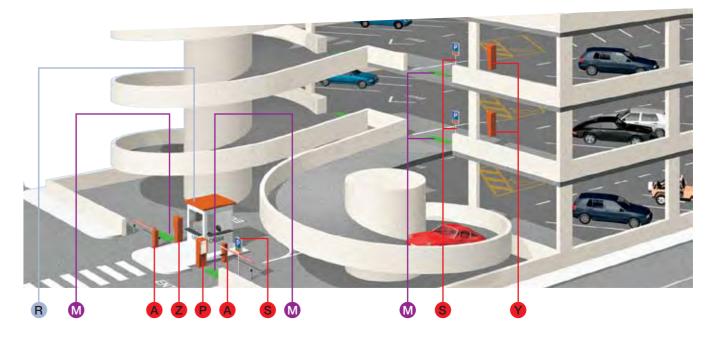
Cable length (ft)		< 32' 8"		32' 8" - 65' 6"		65' 6"- 98' 4"
Power supply 230V A.C. (120V A.C.) 750W Max	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG14	3Gx1.5mm ²	3GxAWG14
Power supply 230-400V A.C. 3-phase 750W Max	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15
Motor power supply 230V A.C. (120V A.C.) 750W Max	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG15
Motor power supply 230-400V A.C. 3-phase 750W Max	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15
 Motor power supply 24V D.C 400W Max 	2Gx1.5mm ²	2GxAWG15	2Gx2.5mm ²	2GxAWG13	2Gx2.5mm ²	2GxAWG13
O Endstop microswitches	*n°x0.5mm²	n°xAWG20	*nx0.5mm ²	n°xAWG20	*nx0.5mm ²	n°xAWG20
 Flashing light 24V A.CD.C. 25W 	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17
Flashing light 230V A.C. (120V A.C.) 25W	2x1.5mm ²	2xAWG15	2x1.5mm ²	2xAWG15	2x1.5mm ²	2xAWG15
TX Photocell	2x0.5mm ²	2xAWG20	2x0.5mm ²	2xAWG20	2x0.5mm ²	2xAWG20
RX Photocell	4x0.5mm ²	4xAWG20	4x0.5mm ²	4xAWG20	4x0.5mm ²	4xAWG20
 Electric lock 12V D.C. 	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1.5mm ²	2xAWG15
Electric lock 24V D.C.	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17
Commands	*n°x0.5mm²	n°xAWG20	*n°x0.5mm ²	n°xAWG20	*n°x0.5mm²	n°xAWG20
Antenna			RG58 Max 10	Om 32' 8" ft		
		*n° =	see documenta	ation Europea	n standards (US standards

Standard installation MULTI-FLOORS TRAINED users and positioned on PUBLIC STREET

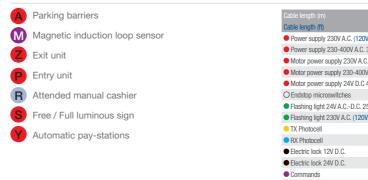
The example shown is indicative of a multi-level parking with automatic cashiers at any level and attended paystation at the exit.

Important

The equipment shown in the diagram is for information purposes only and the command accessories, such as photocells and induction loop sensors, must be evaluated according to the actual needs of the installation. Standard-issue safety equipment for barriers is shown in the section dedicated to traffic barriers in this catalogue.



Standard Issue



The auxiliary manual cashier



The PSC1 auxiliary manual cashier can be integrated into the Ps automatic parking system, to create a manned paystation, even without a direct PC connection.

The FREE - FULL sign



When installed in conjunction with the parking system, a FREE-FULL sign can notify when parking spaces are available. This is especially useful in busy city-centre carparks, as it avoids unnecessarily blocking entrance lanes when full and encourages visitors when not.

The new touch screen cashier



PSC6001 and PSC7001 automatic paystations gives customers the option to pay by coins and notes. Thanks to the coded ticket, the PSC7001 can also manage subscribers that use cards or transponder key fobs.

Antenna





	<10		10 - 20		20 - 30	
		< 32' 8"		32' 8" - 65' 6"		65' 6"- 98' 4"
V A.C.) 750W Max	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG14	3Gx1.5mm ²	3GxAWG14
. 3-phase 750W Max	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15
C. (120V A.C.) 750W Max	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG15
V A.C. 3-phase 750W Max	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15
400W Max	2Gx1.5mm ²	2GxAWG15	2Gx2.5mm ²	2GxAWG13	2Gx2.5mm ²	2GxAWG13
	*n°x0.5mm²	n°xAWG20	*nx0.5mm ²	n°xAWG20	*nx0.5mm ²	n°xAWG20
25W	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17
W A.C.) 25W	2x1.5mm ²	2xAWG15	2x1.5mm ²	2xAWG15	2x1.5mm ²	2xAWG15
	2x0.5mm ²	2xAWG20	2x0.5mm ²	2xAWG20	2x0.5mm ²	2xAWG20
	4x0.5mm ²	4xAWG20	4x0.5mm ²	4xAWG20	4x0.5mm ²	4xAWG20
	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1.5mm ²	2xAWG15
	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17
	*n°x0.5mm²	n°xAWG20	*n°x0.5mm ²	n°xAWG20	*n°x0.5mm²	n°xAWG20
			RG58 Max 10)m 32' 8" ft		

n° = see documentation
European standards
US standards

Parking subscriptions



The TST01 and TST04 cards are specifically designed to automatically manage car parking. Together with the PCT transponder keyfobs, they assist when managing clients with subscriber membership status

Parking systems

The barcode ticket reader solution for all types of parking, even on multiple levels.

Ps is a complete system for managing pay-to-park systems for both occasional and subscribed users. The built-in software allows the system to be personalised for the requirements of the car park manager. It is the most effective solution for parking control in hospitals, shopping centres, airports etc.



BARCODE tickets. Tickets are printed out on thermal fanfold paper. The paper roll is an ISO standard size, for easier and cheaper renewal of consumables.

Integrated graphical display on entrance and exit units. Provides real-time visual feedback on residual credit and the status of the user's subscription.



Subscribers or residents. Built-in transponder technology makes life easier for residents or members with personalised subscriptions. They simply swipe their card past the sensor and the barrier opens.





The PSC7001 is the latest automatic stations designed to be integrated into CAME's Ps range of parking systems. The user-friendly touch screen interface is entirely customisable to meet the needs of the application context.



Advantages of Ps Barcode

The CAME barcode ticket car park management system is the efficient solution to optimise parking efficiency and profits, while simultaneously providing the manager with unparalleled levels of data and ensuring better service, safety and a positive experience for the customer.

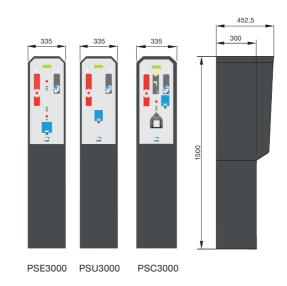
Each component part has been designed to meet the needs of modern parking areas, while still maintaining maximum integrative modularity with other CAME products, according to a precise policy that frees the system of any limits in terms of further development. The front panel of the entry and exit units can be customised with extra buttons, payment devices and the option to add a 'help' intercom.

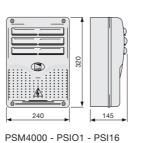
Cables		
Max connecting distance	(m)	(ft)
PC - PC50	1.5	4'9"
PC - RBMP1	1,000 Max	3,281 Max
RBMP1 - PSC3000	1,000 Max	3,281 Max
RBMP1 - PSE3000	1,000 Max	3,281 Max
RBMP1 - PSU3000	1,000 Max	3,281 Max
RBMP1 - PSC7001	1,000 Max	3,281 Max
Connecting cables		
PC - PC50	Standard issue	
PC50 - PSD1	Shielded Twisted Pair (UTP CAT5 AWG2	4) min 2x05 mm ²
PSD1 - RBMP1	Shielded Twisted Pair (UTP CAT5 AWG2	4) min 2x05 mm²
RBMP1 - PSC3000	Shielded Twisted Pair (UTP CAT5 AWG24) min 2x05 mm ²	
RBMP1 - PSE3000	Shielded Twisted Pair (UTP CAT5 AWG24) min 2x05 mm ²	
RBMP1 - PSU3000	Shielded Twisted Pair (UTP CAT5 AWG24) min 2x05 mm ²	
RBMP1 - PSC7001	Shielded Twisted Pair (UTP CAT5 AWG2	4) min 2x05 mm²

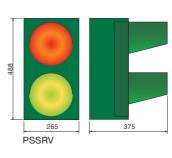
Note: The PS parking system is under continual on-going improvement. Please contct us before quoting a CAME parking system to ensure you have the latest product information.

Ta also in al fa alsona a					
Iechnica	Technical features				
Туре	Protection	Model	Dimensions (B x H x P) mm		
PSC3000	IP40	Automatic cashier	335 x 1500 x 452.5		
PSE3000	IP44	Entrance unit	445 x 1500 x 452.5		
PSU3000	IP44	Exit unit	295 x 1500 x 452.5		
PSM3000	-	Attended cashier station control unit	-		
PSC7001	IP40	Attended cashier station control unit	800 x 1755 x 600		
PC50	20	PC interface	320 x 240 x 145		
PSI16	-	Auxiliary cashiers control	320 x 240 x 145		
PSI01	-	Auxiliary devices control	320 x 240 x 145		
PSC3	-	Auxiliary cashier station	320 x 240 x 145		
PSD1	-	Display	145 x 185 x 40		
RBMP1	-	Control panel	320 x 240 x 145		
PSSRV	IP44	Red/green traffic light	-		
PSINS	IP44	Free / Full sign	445 x 1500 x 452.5		
TST01 -TST04	-	Transponder cards	IS07810-7813		

Dimensions







Dimensions in millimetres (25.4 mm = 1 in)

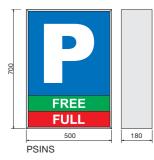
Power supply (V)	Material / Colour
230 A.C. 50/60 Hz	Steel / cod 053 0837
230 A.C. 50/60 Hz	Steel / cod 053 0837
230 A.C. 50/60 Hz	Steel / cod 053 0837
230 A.C. 50/60 Hz	-
230 A.C. 50/60 Hz	Steel / cod 053 0837
-	ABS
-	ABS / Polymethacrylate
-	ABS / Polymethacrylate
-	-







PSC7001



Accessories

Access control pages 160-165 Safety pages 166-175 Radio control pages 176-189

The complete range

230V A.C. automatic parking system





001PSE3000 Galvanised and painted steel car park entry station. Complete with transponder sensor, barcode ticket dispenser and digital display for showing remaining subscription credit.

Control unit for auxiliary devices such as PSSRV traffic lights, PSINS luminous signs, 002PSIO1 magnetic sensors and safety sensors (Max 8 outputs).



001**PSI16** Interface to connect up to 16 PSC3 units.

001PSC3

Auxiliary manual cashier with barcode ticket reader. If combined with a PSI16 enables implementation of a payment station without a direct connection to a PC.

The complete range

Signalling accessories



001PSINS Two-sided FULL-FREE luminous sign.



001PSSRV Red-green traffic light (ø 200 mm).



One-channel magnetic loop-detector sensor. 2 channel magnetic loop-detector sensor.

Easier exit for subscribed users



For car park managers who want to offer a subscription service to their customers, the PSC7001 offer several payment options. Parking can be managed on a hourly, daily or weekly basis. Users can pay by inserting their top-up card into the slot, or by waving their key-ring transponder in front of the sensor (see above). The subscription can be renewed manually by the system administrator, automatically, or by a 'pay-as-you-go' top up scheme. The customisable touch screen user interface guides customers through every step of the process.



The standard installation

Barcode

CAME offers a complete solution for small, medium or large scale single and multi-storey car parking operations.

PS parking systems are modular, versatile and customisable to meet the requirements of the situation. The most efficient system for management of personal subscription customers and occasional visitors alike, it is possible to connect up to 16 entry stations, 16 exit stations and 16 automatic paystations (8 x PSC3000 and 8 x PSC7001) to a centralised intelligent management system. Due to its modular nature, the system can be expanded and adapted should the need arise.

PSE3000 entry stations

Driver must press the button and take a ticket, or swipe their membership card/keyfob for the barrier to open.

PSU3000 exit stations

Accepts and verifies payment of barcode tickets or membership card/keyfob holders, before allowing the customer to leave.

PSC3000 - PSC7001 automatic paystations

Accepts payment via coins or banknotes. The PSC7001 model can also accept credit card payments.

PSC3 portable paystation

With hand-held barcode reader to allow the parking attendant to manually scan tickets, without the need to be connected to a PC.



Automatic paystation with touch-screen interface

The PCS7001 is the latest automatic paystation designed to be integrated into the CAME Ps range of parking systems. Made of sturdy steel plating, it takes coins, banknote and credit card payments. It is engineered to work with keyfobs and transponder cards, allowing subscribers to recharge their own account directly.

The functions:

- · Coin and banknote readers are both programmable for local currency.
- Barcode tickets are fed into the reader and verified.
- User friendly touch screen interface gives continual feedback and guidance throughout • Real-time SMS text status updates for the system administrator are available.
- Can be fitted with an additional 'HELP' push button, with a direct intercom connection to the car park attendant's office.
- Users can recharge their subscription 'top-up' cards and keyfobs using the automatic paystation. They can simply wave the proximity card or keyfob in front of the transponder sensor, and then increase the balance on their account using one of the available payment options.
- Language selection menu.
- The system administrator can sell or use valuable advertising space on the monitor screen.



The Software

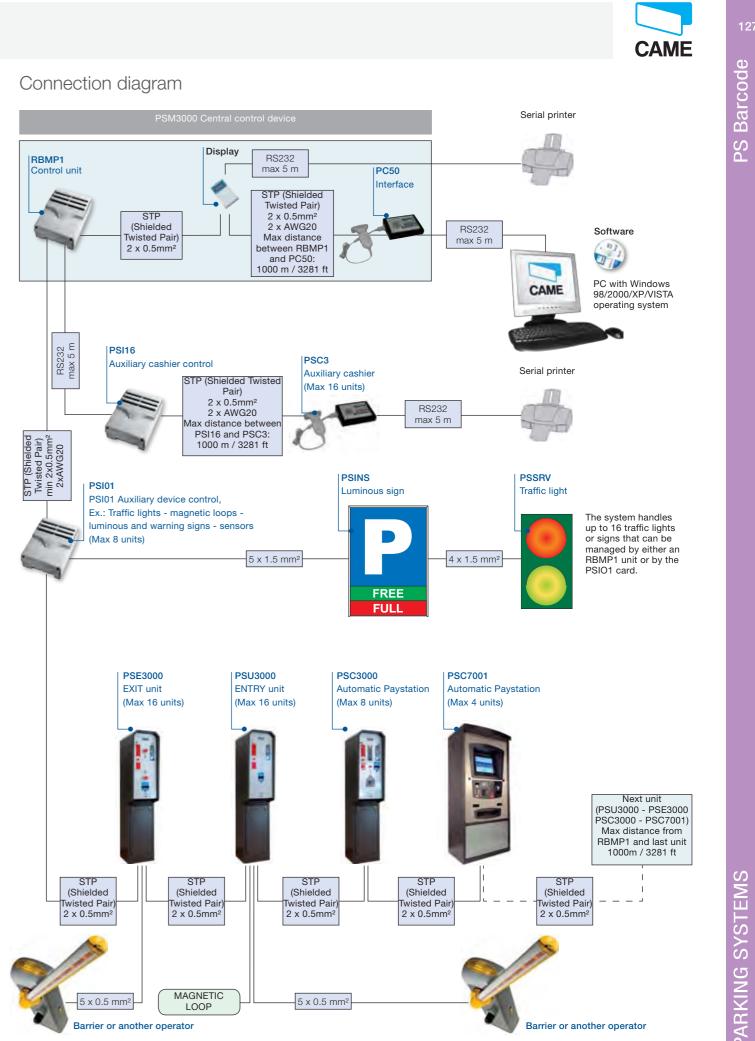
Simple and user-friendly, the PSS4000 software is designed for the complete management of the parking system. The database can manage access for up to 2500 subscription-based customers and 7500 occasional visitors.

PSC3 auxiliary manual cashier

The PSC3 manual cashier station enables payments to be managed even when remotely located, without the assistance of a PC. This can be extremely useful in installations such as supermarkets or hotels, where the parking service might be paid at the cash register when shopping, or the parking charge might be waivered at reception when checking out. It is also a very useful tool for the multistorey car park attendant/manager. The top-level configuration can operate up to 16 portable paystations with a PSI16 interface.

> Note: The PS parking system is under continual on-going improvement. Please contct us before quoting a CAME parking system to ensure you have the latest product information.







PARKING SYSTEMS

Ps Parking systems

The solution for all types of parking, even on multiple levels. Ps is a complete system for managing pay-to-park systems both for occasional as well as subscribed users. The system can be set up with one or more paystations on multiple levels, with outdoor signs displaying the number of available spaces.

Token



CAME

The GET transponder token. tokens are the ideal solution for occasional visitors. Besides its exceptional sturdiness, the token is not susceptible to magnetic fields and sun rays, it is small and can be easily stored in a wallet.

CAME transponders. The TST01 - TST04 cards and the PCT key fob are specifically designed to manage parking areas where clients have weekly, monthly or other passes.

Dedicated software. The PSS4000 software can manage a parking system and controls 2,500 subscribed users and 7,500 occasional visitors.







The PSC6001 is the latest automatic stations designed to be integrated into CAME's Ps systems. Made of sturdy steel plating, it is engineered to work with tokens, keyfobs and transponder cards. It accepts coin, banknote and prepaid options.



Advantages of Ps Token

The CAME token-reading car park management system is the efficient solution to optimise parking efficiency and profits, while simultaneously providing the manager with unparalleled levels of data and ensuring better service, safety and a positive experience for the customer.

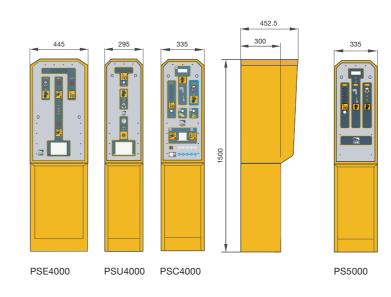
Each component part has been designed to meet the needs of modern parking areas, while still maintaining maximum integrative modularity with other CAME products, according to a precise policy that frees the system of any limits in terms of further development. The front panel of the entry and exit units can be customised with extra buttons, payment devices and the option to add a 'help' intercom.

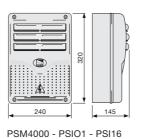
Cables		
Max connecting distance	(m)	(ft)
PC - PC30	1.5	4'9"
PC - RBMP1	1,000 Max	3,281 Max
RBMP1 - PSC4000	1,000 Max	3,281 Max
RBMP1 - PSE4000	1,000 Max	3,281 Max
RBMP1 - PSU4000	1,000 Max	3,281 Max
RBMP1 - PSC6001	1,000 Max	3,281 Max
Connecting cables		Type (only for USA)
PC - PC30	Standard issue	Standard issue
PC30 - PSD1	Shielded Twisted Pair min 2x05 mm ²	Shielded Twisted Pair min 2xAWG20
PSD1 - RBMP1	Shielded Twisted Pair min 2x05 mm ²	Shielded Twisted Pair min 2xAWG20
RBMP1 - PSC4000	Shielded Twisted Pair min 2x05 mm ²	Shielded Twisted Pair min 2xAWG20
RBMP1 - PSE4000	Shielded Twisted Pair min 2x05 mm ²	Shielded Twisted Pair min 2xAWG20
RBMP1 - PSU4000	Shielded Twisted Pair min 2x05 mm ²	Shielded Twisted Pair min 2xAWG20
RBMP1 - PSC6001	Shielded Twisted Pair min 2x05 mm ²	Shielded Twisted Pair min 2xAWG20

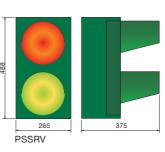
Note: The PS parking system is under continual on-going improvement. Please contct us before quoting a CAME parking system to ensure you have the latest product information.

Technica	Technical features			
Туре	Protection	Model	Dimensions (B x H x P) mm	
PSC4000	IP40	Automatic cashier	335 x 1500 x 452.5	
PSE4000	IP44	Entrance unit	445 x 1500 x 452.5	
PSU4000	IP44	Exit unit	295 x 1500 x 452.5	
PSM4000	-	Attended cashier station control unit	-	
PSC6001	IP40	Attended cashier station control unit	800 x 1755 x 600	
PC30	IP20	PC interface	320 x 240 x 145	
PSI16	-	Auxiliary cashiers control	320 x 240 x 145	
PSI01	-	Auxiliary devices control	320 x 240 x 145	
PSC1	-	Auxiliary cashier station	320 x 240 x 145	
PSD1	-	Display	145 x 185 x 40	
RBMP1	-	Control panel	320 x 240 x 145	
PSSRV	IP44	Red/green traffic light	-	
PSINS	IP44	Free/Full sign	445 x 1500 x 452.5	
TST01 -TST04	-	Transponder cards	IS07810-7813	
GET	-	Transponder token	ø 30	
PS5000	IP44	SIMPLIFIED automatic paystation	335 x 1500 x 452.5	

Dimensions

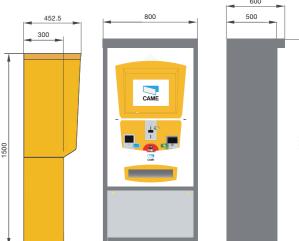




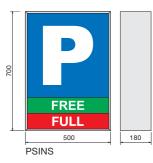


Dimensions in millimetres (25.4 mm = 1 in)

Power supply (V)	Material / Colour
230 A.C. 50/60 Hz	Steel / RAL1028
230 A.C. 50/60 Hz	Steel / RAL1028
230 A.C. 50/60 Hz	Steel / RAL1028
230 A.C. 50/60 Hz	-
230 A.C. 50/60 Hz	Steel / cod 053 0837
-	ABS
-	ABS / Polymethacrylate
-	ABS / Polymethacrylate
-	-
-	ABS
230 A.C. 50/60 Hz	Steel / RAL1028



PSC6001





CAME

Accessories

Access control pages 160-165 Safety pages 166-175 Radio control pages 176-189

The complete range

230V A.C. automatic parking system

, Č T Ĥ Ê



Note: The PS parking system is under continual on-going improvement. Please contct us before quoting a CAME parking system to ensure you have the latest product information.

The complete range **Control accessories** 009**GET**



Transponder token.

Signalling accessories

001 PSINS Two-sided FULL-FREE luminous sign.

001 PSSRV Red-green traffic light (ø 200 mm).

1

230V A.C. simplified system for automatic parkings

001PS5000 Galvanized and RAL 1028 painted steel automatic cashier complete with coin payment system (Fixed toll - doesn't give change).

Accessories

0098 009**S**

SMA	One-channel magnetic loop-detector ser
SMA2	2 channel magnetic loop-detector sensor



nsor.

Access control pages 160-165 Safety pages 166-175 Radio control pages 176-189

Accessories

The standard installation

Small parking facilities can operate with a minimal equipment setup; a PSE4000 entrance unit, a PSU4000 exit unit and a PSM4000 manual cashier system.

Typical applications for this would be the car park of a leisure attraction, a small town centre supermarket, or a hotel car park, where customers might pay for parking at the checkout, or claim back the parking fee at reception, or alternatively they might pay cash directly at a manned parking attendant's booth. This application ensures simple, efficient use while being perfectly expandable if the traffic volume needs were to increase or an automated solution was sought in future.

Alternatively, the PS5000 unit is the ideal solution when pay-to-park facilities require a fixed rate parking fee which can be paid with coins of different denominations. (Note: the PS5000 does not give back change.)



Automatic station for pay-to-park facilities

The PCS6000 (PSC6001) is the latest automatic paystation designed to be integrated into the CAME Ps range of parking systems.

Made of sturdy steel plating, it is engineered to work with tokens, keyfobs and transponder cards. It takes coins, banknote and credit card payments.

The functions:

- Coin and banknote readers are both programmable for local currency.
- Secure credit card payment is VisaPED certified.
- · Supports customised time-based pricing structure.
- Continual on-screen notification of amount owed and change given.
- GSM Diagnostics with real time system status checking mode.
- Intercom connection to attendant's office with 'HELP' button is available on request. • Subscriber management through cards, TAGs or transponder keyfobs, which can all be
- recharged directly at the paystation. • Language selection menu.
- The system administrator can sell or use valuable advertising space on the monitor screen.

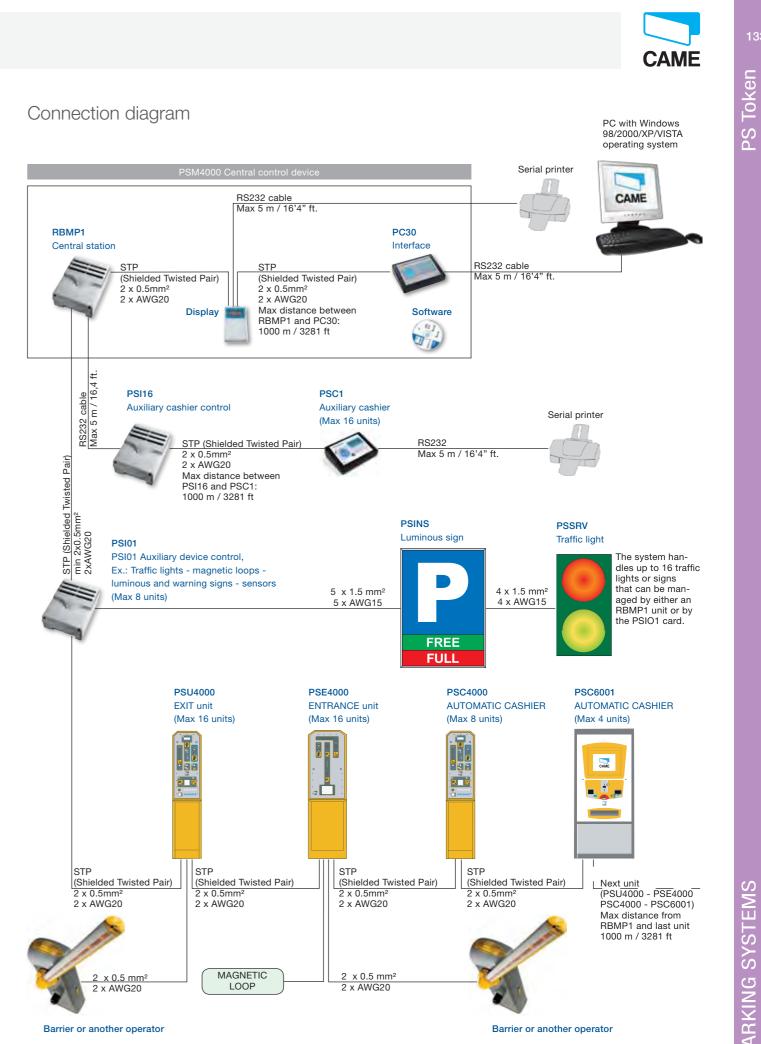


PSC1 portable paystation

The PSC1 manual cashier station enables payments to be managed even when remotely located, without the assistance of a PC. This can be extremely useful in installations such as supermarkets or hotels, where the parking service might be paid at the cash register when shopping, or the parking charge might be waivered at reception when checking out. It is also a very useful tool for the multi-storey car park attendant/manager. The top-level configuration can operate up to 16 portable paystations with a PSI16 interface

Parking subscriptions

For customers who choose to subscribe there are several configurable management options, with scalable pricing broken down into time or calendar terms. Access control monitored through transponder cards and key fobs, which are coded and inputted into the system. For systems equipped with automatic cashier paystations, subscriptions can be recharged by the user even when the attendant's office is unattended. Subscriptions may also be directly managed through the software when certain functions need to be activated or deleted from cards already in the system.



PARKING SYSTEMS

Rbm21 Access control

SIMPLIFIED access control system for up to 500 users.

RBM21 is designed for subscriber parking and is particularly suitable for sporting venues, leisure facilities and small private car parks as well as many other applications. The RBM21 is the ideal solution for managing situations where parking passes are issued allowing access to car parking facilities.



TSP00 transponder card sensor. The ideal tool for access control. The card is practical and sturdy. It is impervious to sun rays and magnetic fields.



The LT001 magnetic card sensor. A valid alternative; practical and functional, magnetic card reading is more cost effective when high numbers of subscribers are registered.

The PSSRV-PSINS traffic light and luminous sign. The natural complement for managing private parking, a FREE / FULL sign provides feedback to drivers on space availability.

Stand alone

RBM21 can work without a PC. Thanks to its sensor for inserting transponder cards on the control panel, new user cards can be configured into the system, even without a connection to a computer.



Advantages of Rbm21

The system is suitable for managing up to a maximium of 500 users. It is designed to be used with proximity or magnetic card sensors. It is supplied with dedicated management software, but also works when not permanently connected to a PC.

Limits to use	
Features	RBM21
Max number of users	500
Dedicated software	YES
Use without PC	YES (partial)
Type of PC connection	RS232 - RS485
Max distance between Rbm21 and PC	5 metres without PC40 (RS232) - 1,000 metres with PC40 (RS485)
Max number of connectable sensors	2 inputs + 2 outputs (or 2 inputs/outputs)
Relay outputs for automation control	2 (n.o n.c.)
Connection for traffic light or sign	1 (n.o n.c.)
Auxiliary Memory card	YES
On board warning display	YES
Magnetic loop connections	2
On-board sensor	YES (only for transponder cards)
	230V A C

Technical features

iecnnical teatures			
Туре	RBM21	PC40	
Protection rating	IP54	-	
Power supply (V)	230 A.C. 50/60 Hz	24 D.C. from RBM21	
Dimensions (mm)	320 x 240 x 145	117 x 75 x 26	
Operating temperature (°C/°	F)	-20 °C to 5	5 °C

The complete range

230V A.C. control and management units

software.

001 RBM2
001 PC40
Control a

Control accessories for proximity cards

1	001 TSP00	Transponder reader.
1		
	001 TST01	Proximity card - ISO7810 - 7813 format.
	001 TST04	Re-writable proximity card - ISO7810 - 78
•	009 PCT	Proximity key fob.
	009 TAG	Glass transponder bulb for TSP01 (It can be housed on TOP-432NA - TOP-434N

Control accessories and magnetic cards

001 LT001	Magnetic card reader.
001 TST02	ISO 7810 - 7813 format magnetic card.



Reader support.

Signalling Accessories



001**PSINS** Two-sided FULL-FREE luminous sign.



LT001 from RBM21

90 x 28 x 27



Rbm21

IP54 from RBM21 70 x 70 x 70 -4 °F to 131 °F

• 230V A.C.

BM21 Control unit for transponder sensors, magnetic loops and card readers, complete with

Interface to remotely connect to the PC (up to 1000 m / 3281 ft).

7813 format.

NA - TOP-862NA TOP-864NA - Atomo - Twin - Touch).

Accessories

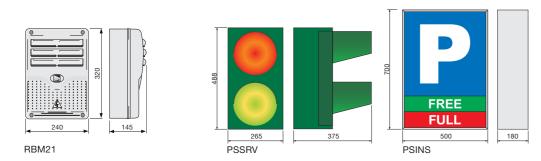
Access control pages 160-165 Safety pages 166-175 Radio control pages 176-189

Rbm21

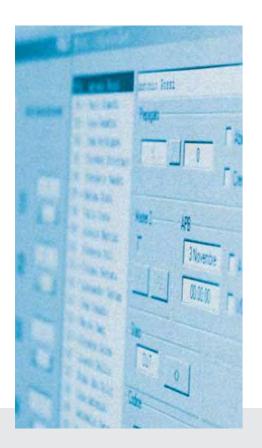
The standard installation

An increasingly commonplace application for the Rbm21 is to manage gyms or leisure facilities, where users access private parking facilities using a single, customised card that also works for additional access within the building. (turnstiles, automatic doors etc.) A simple yet highly capable system is achieved, seamlessly managing users and staff as well as entrances and services. RBM21 lets you manage subscribed membership status clients in a simple, quick way, using the dedicated software and with different membership modes that can be customised onto a single card.

Dimensions



Dimensions in millimetres (25.4 mm = 1 in)



The software

The dedicated software features a simple, user-friendly graphical interface. It runs on all versions of Windows and does not require any special hardware. The system can be easily configured according to system requirements, and enables individual cards to store the parameters of individual users. It also features a "deductible credit" access mode, where values may be adjusted for each single sensor. The opening command for the access control devices may also be given directly from PC if required.

The functions: Prepaid access

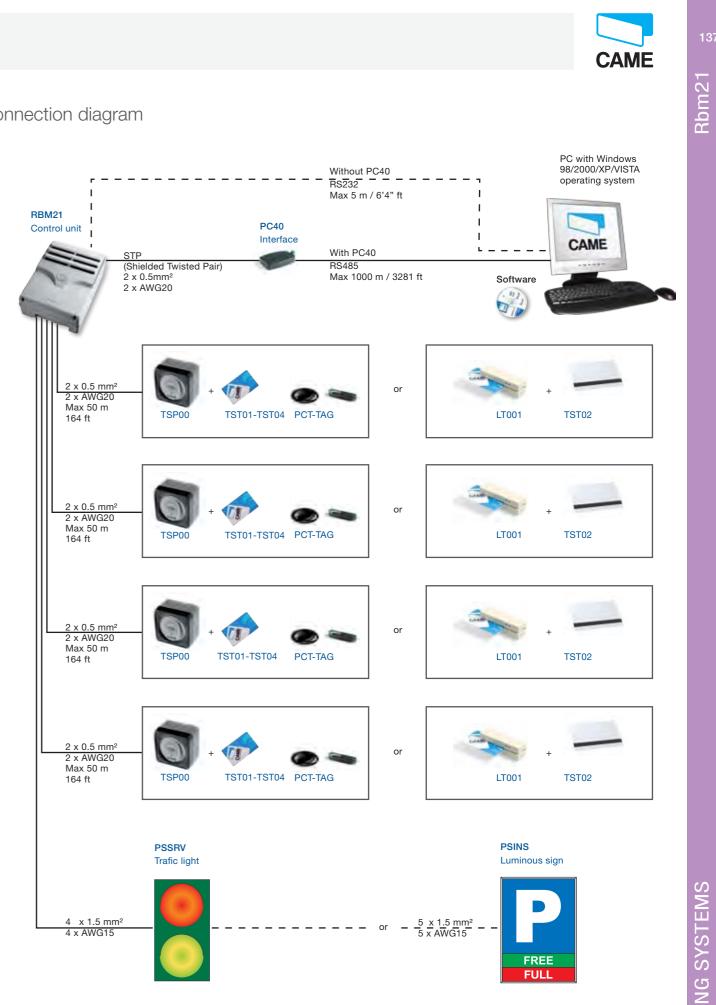
- Credit is deducted from the user's card at every use. Credits must be assigned at the time the card is added to the system and each sensor may be associated with a different credit value. Prepaid time
- Credits are deducted from the user's card based on the amount of time spent within the facility. Card blocker
- At any time the card's operation may be blocked within the system.
- New User
- At any time a new user may be added to the system's membership population. Antipassback
- This prevents more than one user from using the same card at the same time. Antipassback timer
- This function blocks the use of the card for an adjustable time-period after entry. With this function the card is normally cleared again on exit.

Parking Control

RBM21 can be used to control access to private, apartment block or company car parks, which are expressly reserved for members, residents or staff members only.

This application also includes the possibility of using external signage to inform users about available parking spaces. The system can be coupled with any of CAME's automated operators, including swing and sliding gate motors, Gard traffic barriers, Urbaco retractable bollards and Cat series chain barriers.

Connection diagram



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PARKING SYSTEMS

Rbm84 Access control

Evolved traffic managment.

Rbm84 offers dedicated access control solutions to the area where it is applied.

It adapts perfectly to passage selection needs as it wirelessly integrates with numerous access control systems using radio frequency communication. Additional functionality can be implemented with an easy and intuitive software package for customisable management of devices and users.



A powerful microprocessor The RBM84 is managed by a dedicated microprocessor. Data for each user is stored in the database, and through real-time software, processes the assigned permissions, for access to the controlled area.

Dedicated software. It can control up to 60 REM units (see opposite), 128 automated operations, 124 command devices, 128 digital inputs and no less than 5,500 users.

The highest possible level of integration. 128 digital inputs (via REM decoder units) allow for a high number of auxiliary sensors to be connected. for completely safe and secure access control.

44

Also by modem

Connection to the PC can be achieved up to a maximum of 1,000 metres away, or through a modem using GSM technology. The software therefore lets you operate access control throughout a whole premises from one centralised or remote location.



Advantages of Rbm84

The system features evolved management control for up to 5500 users by means of transponder cards, proximity cards, keypads and transmitters. The dedicated software registers user traffic throughout the premises and manages any customised clearance levels depending on how each individual user has been programmed into the system.

Limits to use	
Features	RBM84
Max number of users	5,500
Dedicated software	YES
Use without PC	YES
Programming without PC	NO
Type of PC connection	RS232
Max distance between RBM84 and PC	1000 m / 3281 ft with PC30 (RS485)
Max number of connectable sensors	124 (Max. configuration with 60 REM)
Relay outputs for automation control	128 (Max. configuration with 60 REM)
Digital inputs	128
Connection for traffic light or sign	YES
Magnetic loop connections	YES
	○ 230V A C

Tochnical foaturos

rechnical realures			
Туре	RBM84	PC30	
Protection rating	IP54	-	
Power supply (V)	230 A.C. 50/60 Hz	12 A.C. power supply unit	
Dimensions (mm)	320 x 240 x 145	117 x 75 x 26	
Operating temperature (°C/°F)		-20 °C to 55 °C	

The complete range

230V A.C. control and management units



with software.



and connection cable.

001**REM**

Unit with built-in radio decoder for Rbm84 expansion.

Control accessories for proximity cards

1000	0.0
	00
-	

01**TSP00** Transponder sensor.

001**WA01**

(Max 200 users).

Control accessories and transponder cards

Ca -	001 TST01	Proximity card - ISO7810 - 7813 format.
	001 TST04	Re-writable proximity card - ISO7810 - 78
O	009 PCT	Proximity key fob.
-	009 TAG	Glass transponder bulb for TSP01 (It can be housed on TOP-432NA - TOP-434N

from R700

90 x 28 x 27



Rbm84

IP54 from R700 70 x 70 x 70 -4 °F to 131 °F

• 230V A.C.

001**RBM84** Radio control unit for transponder sensor, magnetic loops and card readers, complete

Interface for Rbm84 control unit management via PC, complete with 12V - 800mA feeder

Home automation transponder sensor with built-in 433,92 MHz "stand-alone" transmitter

813 format.

JA - TOP-862NA TOP-864NA - Atomo - Twin - Touch).

Accessories

Access control pages 160-165 Safety pages 166-175 Radio control pages 176-189

Rbm84

The complete range

001**LT001**

001**TST02**

Control accessories and magnetic cards

Magnetic card reader.

ISO 7810 - 7813 format magnetic card.



R	001 LTT	Reader support.
	Additional ac	cessories
The second se	001 R800	Access control management and decoder card with S5000 - S6000 - S7000 digital selectors.
	001 R700	Access control management and decoder card with TSP00 - LT001.
E.	001 R501N	Radio module (to combine with AF43S).
	001 S5000	Galvanized and painted steel surface-mounted keypad with illuminated front panel. 16,777,216 combinations.
50's	001 S6000	Flush-mounted keypad. 1,679,616 combinations.
0 0 0 0 0 0 0 0	001 S7000	Surface-mounted keypad. 1,679,616 combinations.
1.19	001 S0001	One-channel card for S5000 - S6000 - S7000 (1 memorisable code).
	001 S0002	2 channel card for S5000 - S6000 - S7000 (2 memorisable codes).
D	Signalling Acc	essories
FREE	001 PSINS	Two-sided FULL-FREE luminous sign.



001**PSSRV** Red-green traffic light (ø 200 mm).

Selectors



009**SMA** One-channel magnetic loop-detector sensor. 009**SMA2** 2 channel magnetic loop-detector sensor.



001**CSS** Natural anodized aluminium post with tamper-proof support for S6000 - S9000. Height =1 m.

001**CSSN** Black anodized aluminium post with tamper-proof support for S6000 - S9000. Height =1 m.

The complete	range
--------------	-------

	433,92 MHz tr	ansmitters
	001T AM-432SA	2 channel multi-user transmitter. 16,777,2
	001 T432	2 channel multi-user transmitter. 16,777,2
	001 T434	4 channel multi-user transmitter. 16,777,2
1	001 T438	8 channel multi-user transmitter. 16,777,2
	433,92 MHz ro	lling code transmitters
0.0	001 AT01	One-channel rolling code transmitter. 4,2
. 19	001 AT02	2 channel rolling code transmitter. 4,294,
0.0	001 AT04	4 channel rolling code transmitter. 4,294,
	433,92 MHz tr	ansmitters with KEY CODE
	001 TWIN2	2 channel multi-user transmitter 4,294,96 (Twin transmitters can be used only with standard of
	001 TWIN4	4 channel multi-user transmitter 4,294,96 (Twin transmitters can be used only with standard o
	Accessories	
4	001 TOP-A433N	Antenna.
S	001 TOP-RG58	Antenna cable.
Q	001 P3V	Package of 2 x 3V D.C. CR2016 lithium b
Q	001 P3VB	Package of 2 x 3V D.C. CR1620 lithium b
No. William	433,92 MHz re	eceivers
	001 AF43S	Plug-in radio frequency card.



001AF43TW Plug-in radio frequency card (for TWIN2 and TWIN4).



Rbm84

,216 combinations with self-learning.

,216 combinations.

,216 combinations.

,216 combinations.

294,967,896 combinations.

,967,896 combinations.

,967,896 combinations.

67,896 combinations with KEY CODE. coding, compatible with the Tam series).

67,896 combinations with KEY CODE. coding, compatible with the Tam series)

batteries (for Atomo and Twin series).

batteries (for TAM-432SA).

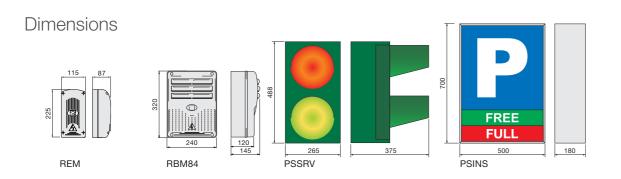
Accessories

Access control pages 160-165 Safety pages 166-175 Radio control pages 176-189

Rbm84

The standard installation

Ideal for many types of applications and is specifically designed for facilities with large numbers of users requiring integration of several control devices (transmitters, coded keypads, cards, etc.) and where it is essential to have real-time data available for all the users in the controlled area. The RBM84 is a product that brings together high levels of practical flexibility and the latest manufacturing technologies available on the market today. The configuration modes and relative applications are varied and diversified depending on the specific operational needs.



Dimensions in millimetres (25.4 mm = 1 in)



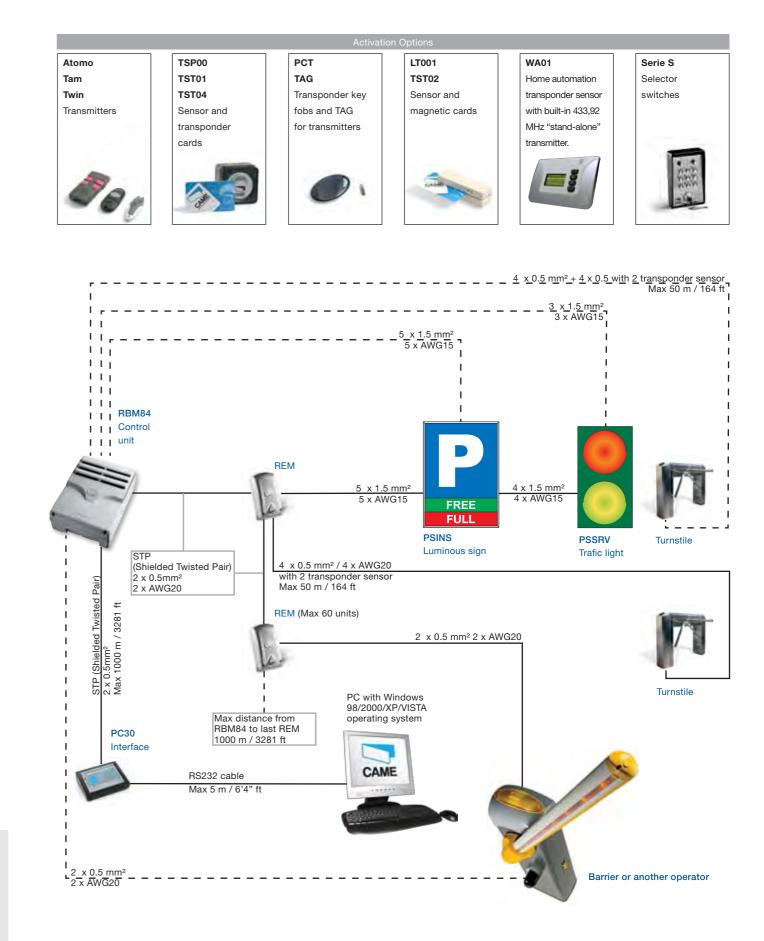
The software

The dedicated software features a light, easy-to-use graphic interface. It runs on the Windows OS and does not require any special hardware.

Functions & Features:

- Prepaid access
- Prepaid time
- Selected times
- Card blocker from PC
- Card insertion from PCParking function
- Event printing
- Event printing
 Anti-passback at entrance/exit
- Anti-passback at ent
 Antipassback timer
- Flow history
- Instant event visualisation
- Direct automation system command
- Differentiated user control (through groups)
- Opening and/or closing of facilities on pre-set dates
- Automatic opening of facilities at pre-set times
- Total block of the system from PC
 Secure password protection
- Synchronization of the state of the facilities

Connection diagram

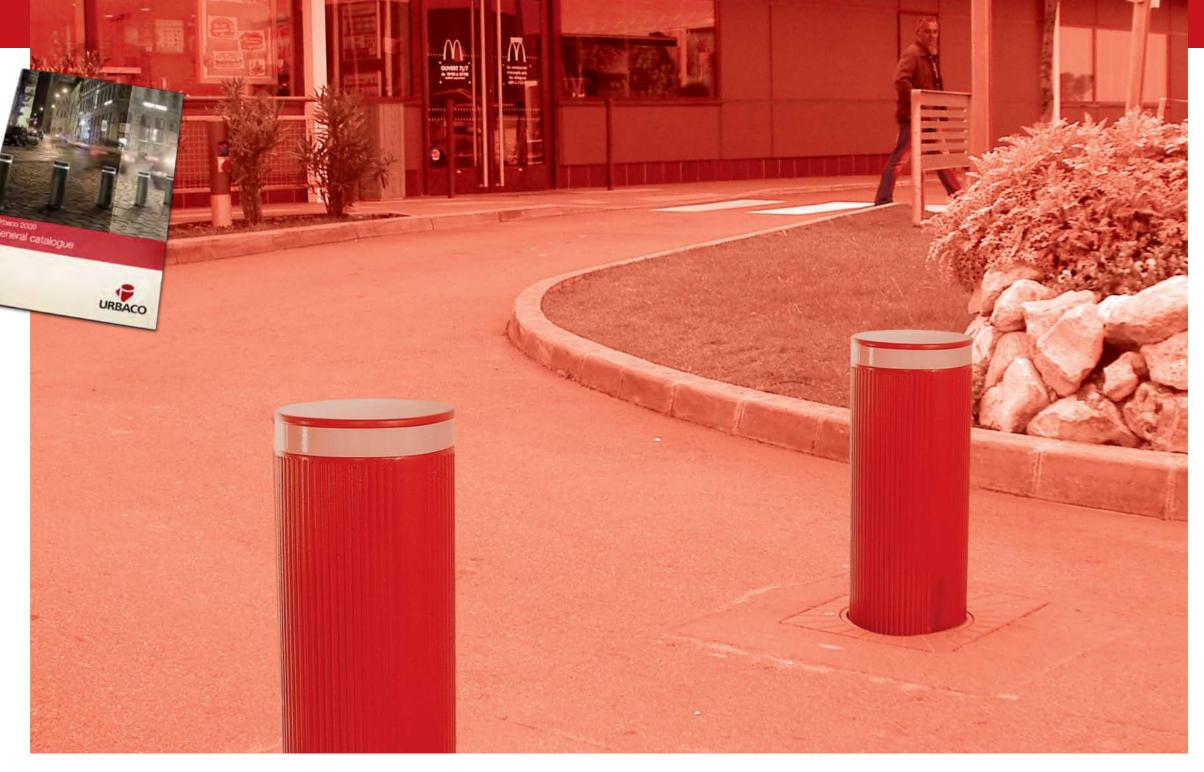




PARKING SYSTEMS

The following section contains only a fraction of the Urbaco product range.

For more information please request a copy of the Urbaco General Catalogue.



A world of safe automation



Automatic **Retractable Bollards**





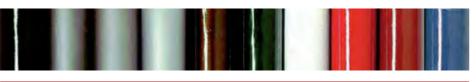
The range



The models

Aquired by CAME in 2004, Urbaco are manufacturers of Automatic Retractable Bollards, Removable Bollards, Fixed Bollards and Posts. Since inventing the 'retractable bollard' Urbaco has developed many models of bollards to meet the technical and aesthetic standards and security needs of its clients. The Generation 6 line of bollards can be fixed, removable or retractable to compliment the existing Tradition range. The Luxor range maintains the same proven high performance standards; providing a strong physical presence and visual deterrant in all situations, even for projects on a restricted budget. Urbaco bollards are completely compatible with CAME products and accessories.

Colours



NOTE: Bollards are supplied in RAL 3020 (Traffic Red) unless otherwise specified.

Urbaco Colour Ref. #	RAL Ref. #	Colour	
TPUNO	RAL 9017	Traffic Black	
TPUGA	RAL 7016	Anthracite Grey	
TPUGR	special Steel Grey		
TPUGM	special	Aluminium Grey	
TPUVK	-	Bronze Khaki Green	
TRRED	RAL 3020 Traffic Red		
OPTIONAL	Other colours are range of RAL gloss Non-standard finis Please contact us		

Lux	Luxor		Pneumatic		
Diameter (of bollard head)	Height (Above Ground)	Weight	Product Code		
200	600	68 kg	BPLUXE60LC		
200	800	76 kg	BPLUXE80LC		
270	600	78 kg	BPLUXF60LC		
270	800	89 kg	BPLUXF80LC		
320	600	89 kg	BPLUXG60LC		
320	800	101 kg	BPLUXG80LC		
12766236					



Cylinder		Cylinder		
Diameter (of bollard head)	Height (Above Ground)	Weight	Product Code	
120	500	54 kg	BPCLPD50LC	
120	750	72 kg	BPCLPD75LC	
200	500	87 kg	BPCLPE50LC	
200	750	108 kg	BPCLPE75LC	
250	500	113 kg	BPCLPF50LC	
250	750	149 kg	BPCLPF75LC	

Acropole		Acropole		
Diameter Height (of bollard head) (Above Ground)		Weight	Product Code	
120	500	54 kg	BPACED50LC	
120	750	72 kg	BPACED75LC	
200	500	87 kg	BPACEE50LC	
200	750	108 kg	BPACEE75LC	
250	500	113 kg	BPACEF50LC	
250	750	149 kg	BPACEF75LC	

Athéna			Pneumatic	
Diameter (of bollard head)	Height (Above Ground)	Weight	Product Code	
120	500	54 kg	BPATND50LC	
120	750	72 kg	BPATND75LC	
200	500	87 kg	BPATNE50LC	
200	750	108 kg	BPATNE75LC	
250	500	113 kg	BPATNF50LC	
250	750	149 kg	BPATNF75LC	

Chate	eauneuf		Pneumatic	
Diameter (of bollard head	Height d) (Above Ground)	Weight	Product Code	
120	500	54 kg	BPCHPD50LC	
120	750	72 kg	BPCHPD75LC	
200	500	87 kg	BPCHPE50LC	
200	750	108 kg	BPCHPE75LC	
250	500	113 kg	BPCHPF50LC	
250	750	149 kg	BPCHPF75LC	

Vend	Vendôme		Vendôme		Pneumatic	
Diameter (of bollard head)	Height (Above Ground)	Weight	Product Code			
120	500	54 kg	BPVDMD50ILC			
120	750	72 kg	BPVDMD50ILC			
200	500	87 kg	BPVDME50ILC			
200	750	108 kg	BPVDME75ILC			
250	500	113 kg	BPVDMF50ILC			
250	750	149 kg	BPVDMF75ILC			



The Range

Hydraulic
Product Code
-
-
BHCLPE50
BHCLPE75
BHCLPF50
BHCLPF75
Hydraulic
Product Code
-
-
BHACEE50
BHACEE75
BHACEF50
BHACEF75
Hydraulic
Product Code
-
-
BHATNE50
BHATNE75
BHATNF50
BHATNF75
Hydraulic
Product Code
-
-
BHCHPE50
BHCHPE75
BHCHPF50
BHCHPF75
Hydraulic
Product Code
-
-
BHVDME50I
BHVDME75I
BHVDMF50I
BHVDMF75I



CYLINDER

 $\Box \Box$





URBACO BOLLARDS

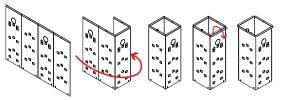
Luxor Automatic Retractable Bollards

Technologically advanced, affordable and secure. Luxor, the newest addition to the Urbaco family, is a retractable pneumatic bollard developed to meet any and all requirements. Luxor is the ideal answer to meet the demands of heavy duty private use and public applications: business centres, supermarket chains, pedestrianised town centres, car dealerships, and architecturally sensitive sites where aesthetics are as important as public safety.



Visual and audible notification. The illuminated ring is composed of 12 LED lights, designed to function even after impact, as they are protected within the centre of the bollard. An audible warning siren also helps to ensure pedestrian safety during operation.





Lower shipping costs, easier storage and transportation. Made from 1.5mm thick galvanised steel, the folding foundation casing (above, right) can be assembled on-site in just 10 minutes. It is practical to install thanks to its reduced weight, yet remains extremely durable.



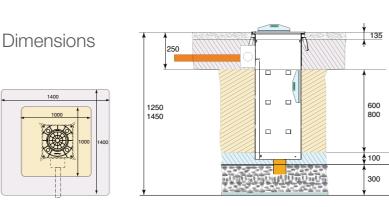


Advantages of Luxor

Movement of the Luxor pneumatic bollard is signalled by light and sound. The illuminated ring improves the visibility of the bollard in all weather conditions, day or night. The acoustic signal helps ensure the safety of any pedestrians or cyclists in close proximity to the moving bollard.

The cast iron design of the head is engineered to be aesthetically more pleasing to the eye when the bollard is retracted as it perfectly integrates with the pavement. The cast-iron cover can be fixed with tamper-proof screws that can only be removed using a special key. The speciallytreated coating on the bollard's body may be ordered in any RAL colour and ensures exceptional resistance to corrosion even under the most extreme weather conditions. (comes in RAL 3020 traffic red as standard).

Innovations in design mean that Luxor is lighter, more affordable and easier to install than its predecessors, without compromising security.



Technical features

Toorn nour routuroo			
Туре			Luxor
Material			Cast Ste
Time to descent			3 - 5 se
Height above ground			600 mm or 8
Working pressure			6/8 ba
Max opening force (Newtons)		from 1500 to 19	18 (depending on
Operating temperature (°C/°F)	-20 °C to 70 °C	-4 °F to 158 °F	(Note: a heater

The complete range

	Automatic retra	ctable bollards (supplied with folding f
	BPLUXE60LC BPLUXE80LC BPLUXF60LC BPLUXF80LC BPLUXG60LC BPLUXG80LC	Luxor pneumatic bollard. Comes with foundation casing to suit (s and powder coated paint finish (availab security device as standard, which allo Switching cable not included. Note: All bollards, if not in stock, have a delivery sch
or i		Folding foundation casings. The correct codes above.
		Made from 1.5mm thick galvanised ste guarantee a simple, successful installat makes them easier and more economic to assemble on site.
	Accessories	
	BOEVB-LUX	Fail SAFE security device. Bollards remain in the UP position in the
)		
2==	U100	Control panel for one access and one
	U200	Control panel for two accesses and up
-		
	CC6 U200 PRR CC6 U200 PRS	230V A.C. technical control centre. Va 300mm) includes U200 control panel v use air compressor with pressure gauge

Dimensions of the bollard (mm) - see diagram

	BPLUXE60	BPLUXF60	BPLUXG60	BPLUXE80	BPLUXF80	BPLUXG80
Α	600	600	600	800	800	800
в	200	270	320	200	270	320
С	85	85	85	85	85	85
D	878	878	878	1078	1078	1078
Е	393	393	413	393	393	413
F	363	363	383	363	363	383
G	197.5	197.5	197.5	197.5	197.5	197.5
н	680.5	680.5	680.5	880.5	880.5	880.5
I	452	452	473	452	452	473
J	422	422	443	422	422	443

teel

secs

800 mm

n height and diameter of bollard) er is available if installing in exceptionally exposed areas)

foundation casing)

(see below), 25m of air hose, zinc coating ble in 6 RAL colours). Fitted with fail OPEN ows bollard to drop in the event of a power cut.

hedule of 4-8 weeks.

ct foundation case is supplied with the 'LC'

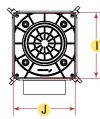
eel, the new foundation cases are essential to tion. They are delivered 'flat packed', which cal to transport, and they take just 10 minutes

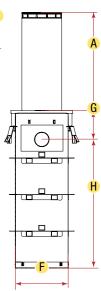
the event of a power failure.

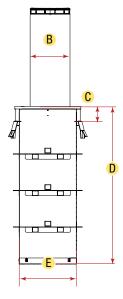
or two pneumatic retractable bollards.

up to eight bollards (dependant on size).

arnished steel protective cabinet (600 x 800 x with built in radio receiver, and an intensive ge and safety valve.







URBACO

149

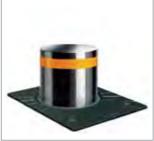
URBACO BOLLARDS

Generation 6

Automatic Retractable Bollards

Maximum protection for highly sensitive locations. The result of over 20 years experience, the sixth generation of Urbaco's retractable bollards are manufactured from three separate parts, each cast solidly in one piece. There is no mechanical welding involved, no parts assembly with bolts or screws and no wearing parts with limited lifespan, ensuring an almost indestructable means of vehicular access control.







High impact resistance. Impact resistance has been certified from 2.500 to 15,000 joules* depending on the size and model. Three Generation 6 bollards together have shown an impact resistance of up to 675.000 joules! (or 7 tons at 31 mph)



hydraulic/pneumatic

Urbaco Generation 6 retractable bollards can be activated by either hydraulic or pneumatic compressors. Pressurised oil offers greater force and resistance to vertical loads, while compressed air offers simplicity and the option for greater distance between the bollard and technical centre.

Note: Please refer to the URBACO CATALOGUE for fixed and mechanical versions of these models, or visit www.urbaco.co.uk.

Advantages of Generation 6

Urbaco generation 6 bollards require little or no periodic maintenance. With resistance levels of more than 4.5 million operation cycles* without any breakdown or need for replacement parts CAME are able to offer a 10-year limited parts warranty on these products. In addition to this, structural parts are totally interchangeable. With 5 bollard head designs (available in 3 diameters and 2 heights) and custom powder-coated paint colours (additional charge may be incurred), Generation 6 bollards can compliment any architectural situation.

The patented Monobloc® casing has a very high impact resistance as it is formed from cast steel up to 24 mm thick. Cast in one piece from steel, it fully protects the bollard. Shock energy received by the bollard is divided into the counter components before disipating through the embedded casing. A guiding ring of thick plastic eases the travel of the bollard up and down reducing friction and noise. The bollard head itself (11mm thick cast steel) provides superior mechanical resistance. A solid, single piece, it integrates smoothly with the guide rails and is designed to withstand the harshest of conditions.

* official certificate available upon rec



Technical features

roorn nouter touter oo						
Туре	Cylinder	Athéna	Acropole	Chateauneuf	Vendôme	
Material	Cast Steel	Cast Steel	Cast Steel	Cast Steel	Cast / Stainless	
Bollard head thickness	11mm	11mm	11mm	11mm	13mm	
Height above ground	500 mm or 750 mm					
Bollard diameter	120 mm, 200 mm or 250mm					
Tested durability	4.5 million operation cycles					
Impact resistance (Joules)		up to 90	00 (depending on height and d	liameter of bollard)		
Operating temperature (°C/°F)	-10 °C to 55 °C	14 °F to 131 °F	(Note: an internal heater kit is	available if installing in excepti	onally exposed areas)	

The con	nplete ra	inge
	Automatic retra	ctable bollards
	BPCLPD50LC BPCLPD75LC BPCLPE50LC BPCLPE75LC BPCLPF75LC BPCLPF75LC	Cylinder model bollard. With monobloc® casing and cover. Comes 25m of air hose, zinc coating and powder of colours). Switching cable not included. Note: All bollards, if not in stock, have a delivery schedule
	BPATN D50 LC BPATN D75 LC BPATN E50 LC BPATN E75 LC BPATN F50 LC BPATN F75 LC	Athena model bollard with wide vertical gr With monobloc® casing and cover. Comes 25m of air hose, zinc coating and powder colours). Switching cable not included. Note: All bollards, if not in stock, have a delivery schedul
	BPACE D50 LC BPACE D75 LC BPACE E50 LC BPACE E75 LC BPACE F50 LC BPACE F75 LC	Acropole model bollard with thin vertical f With monobloc® casing and cover. Comes 25m of air hose, zinc coating and powder of colours). Switching cable not included.
	BPCHPD50LC BPCHPD75LC BPCHPE50LC BPCHPE75LC BPCHPF50LC BPCHPF75LC	Chateauneuf model bollard with horizonta With monobloc® casing and cover. Comes 25m of air hose, zinc coating and powder of colours). Switching cable not included. Note: All bollards, if not in stock, have a delivery schedul
	BPVDMD50ILC BPVDMD75ILC BPVDME50ILC BPVDME75ILC BPVDMF50ILC BPVDMF75ILC	Vendôme inox stainless steel bollard. With monobloc® casing and cover. Comes reflective strip, 25m of air hose, zinc coatin in 6 RAL colours). Switching cable not inclu Note: All bollards, if not in stock, have a delivery schedul
		Folding foundation casings. The correct fo
		Made from 1 5mm thick galvanised steel t



Tolding foundation casings. The con
Made from 1.5mm thick galvanised a guarantee a simple, successful insta
makes them easier and more econo
to assemble on site.

Accessories

U100	Control panel for one access and one
U200	Control panel for two accesses and u

	Chatea
el	Cast

Cast / Stainless Stee 13mm



ပ Generation

151

s with foundation casing to suit (see bottom), coated paint finish (available in 6 RAL

le of 4-8 weeks

rooves. es with foundation casing to suit (see bottom), coated paint finish (available in 6 RAL

le of 4-8 weeks.

flutes.

es with foundation casing to suit (see bottom), coated paint finish (available in 6 RAL

le of 4-8 weeks.

al grooves. es with foundation casing to suit (see bottom), coated paint finish (available in 6 RAL

le of 4-8 weeks

s with foundation casing to suit (see below), ng and powder coated paint finish (available luded.

le of 4-8 weeks

oundation case is supplied with all 'LC' codes.

steel, the new foundation cases are essential to allation. They are delivered 'flat packed', which omical to transport, and they take just 10 minutes

e or two pneumatic retractable bollards.

up to nine bollards (dependant on size).

Technical Centres

For Automatic Retractable Bollards

Flexible control options.

For all automatic rising bollards, Urbaco technical control centres are made up of three items; The control panel, the compressor and the cabinet. Altering the configuration of these items will allow you to control different combinations of bollards.



Standard 230v technical centre.

This rust-proof cabinet contains all the necessary hardware to run up to 4 automatic retractable bollards. The heavy duty air compressor is designed to operate under intensive-use situations and requires little or no periodic maintenance.

U200 control panel. The state of the art control panel runs limit switches, lights indicating bollard position, induction loops, and remote control actuators by dry contact as well as compressor surveillance. A maximum of two optional U201 expansion cards can be built into the box, allowing you to run a 2nd and 3rd accessways





Pre-assembled control centres

As well as the option to purchase individual elements to suit your needs, Urbaco technical control centres are available in standard configurations to suit the majority of requirements. Compressors are supplied preprepared to accept 10mm automatic bollard air line supplied with all bollards enless otherwise stated.

All URBACO control centres (and therefore automatic bollards) can be operated by the usual range of CAME radio transmitters, keypads, card readers, induction loops etc. and can easily accomodate a wide range of safety loops and detectors.

Limits to use

Features	CU0011PP	CU0011PPR	CC6U200PR	CC6U200PRS
Max no. of small pneumatic bollards	4	6	8	8
Max no. of large pneumatic bollards	2	3	4	4
Operation intermittence	50% (15 mins 0	N - 15 mins OFF)	40%	40%
Shock index		IK 10 (1kg	at 50cm)	
Min operating temperature (°C/°F)	-10 °C / 1	4 °F (Note: an internal	heater kit is available	e if necessary)
Max operating temperature (°C/°F)		55 °C /	131 °F	
Built-in isolation switch	NO	NO	NO	NO
Sound insulation	YES	YES	NO	YES
Limit switch management	YES	YES	YES	YES
Reserve Compressor Capacity (L)	0	5	10	10
				230V A.C

Technical f							4.5
Technical Control Centre		0011PP	CU0011PPR	CC6U200PR	CC6U200PRS		15
Cabinet Material	1.5mm	thick steel	1.5mm thick steel	1.5mm thick steel	1.5mm thick steel		
Surface Finish	RAL 7	035 (grey). Phospha	atation, passivation, neutralisation	and polyester coating of 60µm by	electro-static powdering.	URBACO	
Protection rating	IP44 (contro	ol panel is IP54)	IP44 (control panel is IP54)	IP44 (control panel is IP54)	IP44 (control panel is IP54)		
Power supply (V)	230V A	.C. (2 P+E)	230V A.C. (2 P+E)	230V A.C. (2 P+E)	230V A.C. (2 P+E)		2
Dimensions (mm)	H 600 x L	. 400 x W 260	H 800 x L 600 x W 260	H 600 x L 800 x W 300	H 600 x L 800 x W 300		H
Weight (Kg)		-	-	-	-		
Ventilation	Na	atural	Natural	Natural	Natural		Centres
					• 230V A.C.		
The con		control centrol centrol 230V A.C. te	echnical control centre. Va	use with Generation 6 b	lated cabinet		Technical
	CC0011 PPR	intensive use 230V A.C. te (800 x 600 x	e air compressor with pre echnical control centre. Va 260mm) contains U200 (control panel with built in ssure gauge and safety v arnished steel sound-insu control panel with built in essure gauge, safety valve	alve. Ilated cabinet radio receiver, large		
	Pre-assembled	control centr	res - recommended for	use with Luxor bollards			
	CC6 U200 PRR	300mm) incl		arnished steel protective of with built in radio receive uge and safety valve.			
	CC6 U200 PRS	(600 x 800 x	300mm) includes U200 d	arnished steel cabinet wit control panel with built in ssure gauge and safety v	radio receiver, and an	- (Jen	
	Accessories						
	U200	bollards (dep		to eight Luxor or six Gene ace for up to 2 optional U			
Finites	U201	Expansion c	ard. Allows additional ac	cessway to be controlled	using the U100 panel.		
~						- new	
	CORE H02 -LUX	Plinth for floo	or-mounting Luxor contro	ol centres.			

nical Control Centre						
		0011PP	CU0011PPR	CC6U200PR	CC6U200PRS	
net Material		thick steel	1.5mm thick steel	1.5mm thick steel	1.5mm thick steel	URBACO
ace Finish	RAL 7	'035 (grey). Phosph	atation, passivation, neutralisation	n and polyester coating of 60µm by	electro-static powdering.	UNDALU
ection rating	IP44 (contro	ol panel is IP54)	IP44 (control panel is IP54)	IP44 (control panel is IP54)	IP44 (control panel is IP54)	
er supply (V)	230V A.	.C. (2 P+E)	230V A.C. (2 P+E)	230V A.C. (2 P+E)	230V A.C. (2 P+E)	
nsions (mm)	H 600 x L	400 x W 260	H 800 x L 600 x W 260	H 600 x L 800 x W 300	H 600 x L 800 x W 300	
ght (Kg)		-	-	-	-	
lation	Na	atural	Natural	Natural	Natural	
					230V A.C.	
ne con	nplete ra Pre-assembled	0	res - recommended for	use with Generation 6 I	bollards	
	CC0011 PP	(600 x 400 x	260mm) contains U200	/arnished steel sound-ins control panel with built ir essure gauge and safety	radio receiver, and an	
	CC0011 PPR	(800 x 600 x	260mm) contains U200	/arnished steel sound-ins control panel with built ir essure gauge, safety valv	n radio receiver, large	
Passerell						
	Pre-assembled CC6U200PRR	230V A.C. te 300mm) incl	echnical control centre. \	arnished steel protective I with built in radio receive uge and safety valve.	cabinet (600 x 800 x	
		230V A.C. te 300mm) incl use air comp 230V A.C. te	echnical control centre. V udes U200 control pane pressor with pressure ga echnical control centre. V	/arnished steel protective I with built in radio receive uge and safety valve. /arnished steel cabinet wi	cabinet (600 x 800 x er, and an intensive ith sound-insulation	new
	CC6 U200 PRR CC6 U200 PRS	230V A.C. te 300mm) incl use air comp 230V A.C. te (600 x 800 x	echnical control centre. V udes U200 control pane pressor with pressure ga echnical control centre. V 300mm) includes U200	/arnished steel protective I with built in radio receive uge and safety valve.	cabinet (600 x 800 x er, and an intensive ith sound-insulation n radio receiver, and an	
	CC6 U200 PRR	230V A.C. te 300mm) incl use air comp 230V A.C. te (600 x 800 x	echnical control centre. V udes U200 control pane pressor with pressure ga echnical control centre. V 300mm) includes U200	/arnished steel protective I with built in radio receive uge and safety valve. /arnished steel cabinet wi control panel with built in	cabinet (600 x 800 x er, and an intensive ith sound-insulation n radio receiver, and an	
	CC6 U200 PRR CC6 U200 PRS	230V A.C. te 300mm) incl use air comp 230V A.C. te (600 x 800 x intensive use Control pane bollards (dej	echnical control centre. N udes U200 control pane pressor with pressure ga echnical control centre. N 300mm) includes U200 e air compressor with pr	/arnished steel protective I with built in radio receive uge and safety valve. /arnished steel cabinet wi control panel with built in	cabinet (600 x 800 x er, and an intensive ith sound-insulation n radio receiver, and an valve.	
	CC6U200PRR CC6U200PRS Accessories	230V A.C. te 300mm) incl use air comp 230V A.C. te (600 x 800 x intensive use Control pane bollards (dep for additonal	echnical control centre. Nudes U200 control pane pressor with pressure gate echnical control centre. N 300mm) includes U200 e air compressor with pr el for one access and up pendant on size). With sp l accessways.	/arnished steel protective I with built in radio receive uge and safety valve. /arnished steel cabinet wi control panel with built in essure gauge and safety	cabinet (600 x 800 x er, and an intensive ith sound-insulation n radio receiver, and an valve. heration 6 retractable J201 expansion cards	
	CC6U200PRR CC6U200PRS Accessories U200 U201	230V A.C. te 300mm) incl use air comp 230V A.C. te (600 x 800 x intensive use Control pane bollards (dep for additonal Expansion c	echnical control centre. N udes U200 control pane pressor with pressure gate echnical control centre. N 300mm) includes U200 e air compressor with pr el for one access and up pendant on size). With sp accessways.	/arnished steel protective I with built in radio receive uge and safety valve. /arnished steel cabinet wi control panel with built in essure gauge and safety to eight Luxor or six Ger bace for up to 2 optional to eccessway to be controlled	cabinet (600 x 800 x er, and an intensive ith sound-insulation n radio receiver, and an valve. heration 6 retractable J201 expansion cards	
	CC6U200PRR CC6U200PRS Accessories U200 U201	230V A.C. te 300mm) incl use air comp 230V A.C. te (600 x 800 x intensive use Control pane bollards (dep for additonal Expansion c	echnical control centre. Nudes U200 control pane pressor with pressure gate echnical control centre. N 300mm) includes U200 e air compressor with pr el for one access and up pendant on size). With sp l accessways.	/arnished steel protective I with built in radio receive uge and safety valve. /arnished steel cabinet wi control panel with built in essure gauge and safety to eight Luxor or six Ger bace for up to 2 optional to eccessway to be controlled	cabinet (600 x 800 x er, and an intensive ith sound-insulation n radio receiver, and an valve. heration 6 retractable J201 expansion cards	

IT IN	
2	
16	
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tures						
)011PP	CU0011PPR	CC6U200PR	CC6U200PRS		15
1.5mm	thick steel	1.5mm thick steel	1.5mm thick steel	1.5mm thick steel		
RAL 70	035 (grey). Phosphat	ation, passivation, neutralisation	and polyester coating of 60µm by e	electro-static powdering.	URBACO	
IP44 (contro	l panel is IP54)	IP44 (control panel is IP54)	IP44 (control panel is IP54)	IP44 (control panel is IP54)		S S
230V A.	.C. (2 P+E)	230V A.C. (2 P+E)	230V A.C. (2 P+E)	230V A.C. (2 P+E)		Ľ
H 600 x L	400 x W 260	H 800 x L 600 x W 260	H 600 x L 800 x W 300	H 600 x L 800 x W 300		J
	-	-	-	-		e B
Na	atural	Natural	Natural	Natural		Centres
				230V A.C.		
						ğ
						ĿΞ
loto ra	nao					
olete ra	lige					5
						Technical
e-assembled	control centre	es - recommended for	use with Generation 6 b	ollards		
C0011 PP	230V A.C. tec	chnical control centre. V	arnished steel sound-insu	lated cabinet		
0001111			control panel with built in			
			essure gauge and safety v			
			0 0 7			
					— (nəw)	
C0011 PPR			arnished steel sound-insu			
	•		control panel with built in			
	Intensive-use	air compressor with pre	essure gauge, safety valve	e and 5L air reserve .		
e-assembled	control centre	es - recommended for	use with Luxor bollards			
					-new)	
C6 U200 PRR			arnished steel protective of			
			with built in radio receive	r, and an intensive		
	use air compr	ressor with pressure gau	uge and safety valve.			
C6 U200 PRS	230V A C. tec	hnical control centre V	arnished steel cabinet wit	h sound-insulation		
			control panel with built in			
			essure gauge and safety v			
			, ,			
cessories						
000		few even encoder and our	ta siaht luuran an sin Oan			
200	Control panel	for one access and up	to eight Luxor or six Gene ace for up to 2 optional U	eration 6 retractable		
	for additional a			201 expansion carus		
		100033Way3.				
201	Expansion ca	rd. Allows additional ac	cessway to be controlled	using the U100 panel.		
	1			J		
					new	
JKEHU2-LUX	Plinth for floor					
		r-mounting Luxor contro	ol centres.		<u> </u>	
		r-mounting Luxor contro	ol centres.			
		r-mounting Luxor contro	ol centres.			
PURA15		r-mounting Luxor contro				



	011PP	CU0011PPR	CC6U200PR	CC6U200PRS	
	thick steel	1.5mm thick steel	1.5mm thick steel	1.5mm thick steel	URBACO
	(e e, e	atation, passivation, neutralisation			UNDACO
	l panel is IP54) C. (2 P+E)	IP44 (control panel is IP54) 230V A.C. (2 P+E)	IP44 (control panel is IP54) 230V A.C. (2 P+E)	IP44 (control panel is IP54) 230V A.C. (2 P+E)	
	400 x W 260	H 800 x L 600 x W 260	H 600 x L 800 x W 300	H 600 X L 800 X W 300	
000 X L	- 400 X W 200		H 000 X L 000 X W 300		
Na	tural	Natural	Natural	Natural	
Nu	turui	Naturai	Naturai	• 230V A.C.	
er (inge				
	0				
nbled	control cent	res - recommended for	use with Generation 6 b	ollards	
	220V/ A C to	chnical control centre. Va	projected steel sound incu	ulated cabinat	—(new)
		260mm) contains U200			
		e air compressor with pre			
		· · · · · · · · · · · · ·	,		
PR		chnical control centre. Va			
		260mm) contains U200			
	Intensive-us	e air compressor with pre	ssure gauge, salety valv	e and SE air reserve .	
nbled	control cent	res - recommended for	use with Luxor bollards	•	
					-(new)
PRR		chnical control centre. Va			
		udes U200 control panel		er, and an intensive	
	use air comp	pressor with pressure gau	ige and safety valve.		
					-new
PRS	230V A.C. te	chnical control centre. Va	arnished steel cabinet wi	th sound-insulation	
		300mm) includes U200 (
	intensive use	e air compressor with pre	ssure gauge and safety v	valve.	
es					
		el for one access and up			
		pendant on size). With sp	ace for up to 2 optional U	J201 expansion cards	
	tor additonal	accessways.			
	Expansion	ard Allows additional as	personal to be controlled	using the 11100 panel	
	Expansion c	ard. Allows additional ac	cessway to be controlled	using the 0100 panel.	
-LUX	Plinth for flo	or-mounting Luxor contro	ol centres.		
	Automatia		ral controc		-(new)
	Automatic p	urge valve for Luxor cont	roi centres.		

Technical Control Centre Operational Limits (Max No. of Bollards)													
	Accessways		Generation 6			Luxor Range							
Diameter of bollard (mm)		ø1	20	ø 2	200	ø 2	250	ø 2	200	ø 2	270	ø 3	320
Height of bollard (mm)		h 500	h 750	h 500	h 750	h 500	h 750	h 600	h 800	h 600	h 800	h 600	h 800
CC0011PP	1 - 3	4	3	3	2	2	2	-	-	-	-	-	-
CC0011PPR	1 - 3	6	4	4	3	3	3	-	-	-	-	-	-
CC6U200PR	1 - 3	-	-	-	-	-	-	8	6	7	5	6	4
CC6U200PRS	1 - 3	-	-	-	-	-	-	8	6	7	5	6	4

Sound-Proofing

Compressors and control centres shown on these pages are NOT SILENT when operating. Urbaco compressors can reach up to 66dB during operation. Noise output can be reduced by fitting sound insulation inside the ocntrol centre cabinet.

Please call us on 0115 9210 430 to discuss your requirements.



A world of safe automation

www.cameuk.com



Accessories



ACCESSORIES

The range

Radio remote controls

The models

To ensure maximum efficiency and peace-of-mind for the user, a modern automation system requires integration of simple controls with safety devices that successfully optimise performance.

For all system types and requirements CAME offers a wide range of devices designed to solve all issues concerning safety, in compliance with current European Standards. The table opposite sums up the complete range of command and safety accessories and their main features. In the following pages, the features of all the accessories are described, making it easier and quicker to choose the right product.

Main features

	TRANSMITT	ERS		
Series	Model	Number of keys	Frequency (MHz)	Features
Atomo	AT01	1	433,92 rolling code	• • •
Atomo	AT02	2	433,92 rolling code	• • •
Atomo	AT04	4	433,92 rolling code	• • •
Tam	T432	2	433,92	• • •
Tam	T434	4	433,92	• • •
Tam	T438	4+4	433,92	• • •
Tam	TAM-432SA	2	433,92	• • • •
Tfm	T152	2	30,900	• • •
Tfm	T154	4	30,900	• • •
Tfm	T158	4+4	30,900	• • •
Top 433,92	TOP-432NA	2	433,92	• • • •
Top 433,92	TOP-434NA	4	433,92	
Top 433,92	T0P-432A	2	433,92	• •
Top 433,92	TOP-434A	4	433,92	• •
Top 433,92	T0P432S	2	433,92	• •
Top 868,35	TOP-862NA	2	868,35	
Top 868,35	TOP-864NA	4	868,35	• • • •
Top 30,900	T0P-302A	2	30,900	• •
Top 30,900	T0P-304A	4	30,900	• •
Top 30,900	T0P-3022M	2+2	30,900	• • •
Touch	TCH-4024	4	40,685	• • • •
Touch	TCH-4048	4+4	40,685	
Twin	TIW02	2	433,92	• • • •
Twin	TIW04	4	433,92	• • • •

Sensitive keys



Thanks to its ergonomic shape, the transmitter is practical to use, and prevents accidental commands from being sent.



• Approved devices. All CAME radio control

systems are approved for use in both European and non-European countries.

• Self-learning of the radio code "from the transmitter to the receiver".

This function allows the receiver to memorise the code of a device.

• Self-learning of the radio code "from transmitter to transmitter".

This function allows a transmitter to copy onto a new one. It permits the creation of transmitters with the same code.

• Multi-user system. A different code can be associated to each button on the transmitter. This gives control over independent systems, even within the same effective range.









The external receivers



For installations that cannot use normal snap-in cards, such as for controlling garden lighting or sprinklers. CAME offers outside receivers or radio modules, with 2 or 4 channels, powered by 12 - 24V D.C. or 230V A.C. and which are transmitted according to the frequency used.

¹⁵⁸ Infrared-beam photocells

Main features

	INFRARED	D-BEAM PH	OTOCELLS	
Series		Range (m/ft)	Power supply (V)	
Doc	DOC-I	18 / 59'	12-24 A.CD.C.	
Doc	DOC-E	18 / 59'	12-24 A.CD.C.	
Dir	DIR10	10/32'8"	12-24 A.CD.C.	•
Dir	DIR20	20 / 65' 6"	12-24 A.CD.C.	•
Dir	DIR30	30 / 98' 4"	12-24 A.CD.C.	•
Db	DBC01	10 / 32' 8"	Tx batteries 4 x 1.5 AAA10	•
Db	DBC03	10 / 32' 8"	batteries 4 x 1.5 AAA10	•
Db	DBC04	10 / 32' 8"	batteries 4 x 1.5 AAA10	•
Db	DBC01	10 / 32' 8"	Tx batteries 4 x 1.5 AAA10	• • •
Db	DBS01	10 / 32' 8"	Tx batteries 4 x 1.5 AAA10	• • •
Db	DBCT	10 / 32' 8"	batteries 4 x 1.5 AAA10	• • •

Synchronised infrared

beam. Photocell synchronisation (via cable) can be carried out between each pair of transmitters and receivers. This allows for multiple sets of photocells even in close proximity to each other or at double heights without the risk of interference.

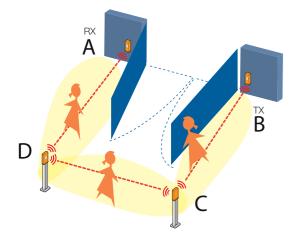
• Wireless photocells. No cables or digging required and guaranteed perimeter protection on the moving area of the gate.



• The integrated system. The integrated Db + Df system can control the traffic zone and that behind the sliding gate leaves. Infrared beam technology can work with sensitive edges installed on the gate leaf, thereby solving the risk of accidental contact with the gate and does away with complicated cable laying.



Application schemes for swing gates and Parking barriers



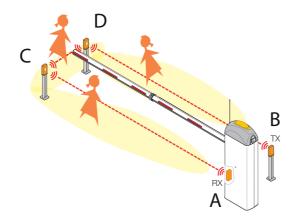
Example of perimeter coverage on a swing gate with Wireless photocells.

- A = DBC01 receiver
- B = DBC01 transmitter
- C = DBC03 repeater D = DBC04 repeater
- D = DBC04 repeater

Dir: The synchronised photocell



The DIR photocells' operation principle consists of auto-sychronising the infrared beams between receiver and transmitter. This function allows for multiple installation requirements that are typical in industrial settings, where devices need to be placed at two different heights.



Example of perimeter coverage on a Parking barrier with Wireless photocells.

Photocell mounting is simple, thanks to

Elegant and accurate in design, they

are always perfectly integrable in any

applicable context.

the range of modular aluminium columns.

- A = DBC01 receiver
- B = DBC01 transmitter
- C = DBC03 repeater
- D = DBC04 repeater

Accessories

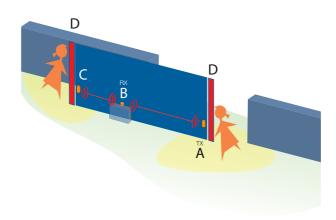


Sensitive safety edges

Main features

	Sensit	Sensitive safety edges		
Series			Length (m/ft)	Connected accessories
Df	DF15	Mechanical contact	1.5 / 4'11"	Db series photocells
Df	DF17	Mechanical contact	1.7 / 5'6"	Db series photocells
Df	DF20	Mechanical contact	2 / 6'5"	Db series photocells
Df	DF25	Mechanical contact	2.5 / 8'2"	Db series photocells





Example application of the Db+Df integrated system on a sliding gate.

- A = Pair of photocells DBS01 (TX) P = Pair of DBS01 photocella (DX)
- B = Pair of DBS01 photocells (RX) C = Additional DBCT transmitting module
- C = Additional DBCT transmitting mode D = Sensitive safety edges - Df series

Certified and patented product



The Df models are patented by CAME and are built in compliance with the EN 12978 and EN 954-1 European Standards, providing systems that are always certified and compliant.



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For sliding gates. Thanks to the integrated Db + Df system, safety edges can be installed on the sliding-gate leaves for their opening and closing phases.

For swing gates. Installed vertically on the end of the gate leaf or across the gate's fixed part to protect the area just behind the gate's movement range.

Entirely deformable. Thanks to their patented internal mechanism, Df safety edges are deformable along their entire length and have no rigid parts. This guarantees top protective efficacy.







Various models for all needs



The Df sensitive edges come in various sizes and are ready to install, or they can also be assembled up to maximum of 6 m / 19'8" ft in length.

Wave Home automation

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Affordable Home Automation Solution. Wave lets you control all the automated appliances in your home; the gate, garage door, garden lights, curtains and shutters, the sprinkler system or the heating. Wherever you are, Wave utilises programmable timers to monitor, open / close and turn on / off the electronics in your home.



Oled technology. Wave's viewing screen is made of energy-saving, high-visibility OLED diodes, which makes it easy to browse among the integrated software's functions.

Handy, quick buttons. Wave's face plate is fitted with standard buttons with which you can directly control your devices.



Time Settings

Universal mounting. Wave fits perfectly into the regular. 3 module hold-all boxes. Simple, modular application – anywhere in the home.





The WAVE can also function as an access control system, the WA01 allows for the programming of 200 users and integrates a proximity reader to facilitate access. To expand the system further the WA01 can be combined with an RBM84 to provide a more complete access control solution.

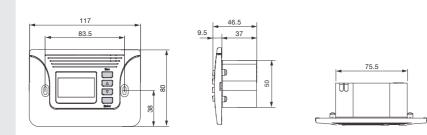
up to 200 users



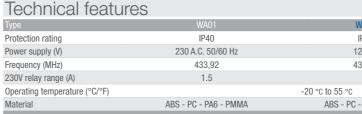
Advantages of Wave

- Command of up to 5 automatic devices through radio signal or relay.
- Programmable alarm clock over two time zones.
- Thermostat function to adjust the temperature.
- Visual display of room temperature, date and time.
- Timer can program 16 time zones and relay or radio signal activation. For example: turning on the indoor lights, garden lights, burglar alarm, timed gate opening, garden sprinkler.
- "Stand alone" access control function, as a transponder card sensor, for up to 200 users. Its software provides you with a visual display of each user's information and requested service (e.g. checking residual credit for membership or active scalar cards).
- Integrated clock back-up battery.
- Multi-language menu.
- · Password protected by alphanumeric code for programming access. or alternatively, by transponder card.
- Possibility to connect to the WI08 to control up to 8 WA02s.
- Possibility to connect the WA01 to the RBM84 access control.

Dimensions

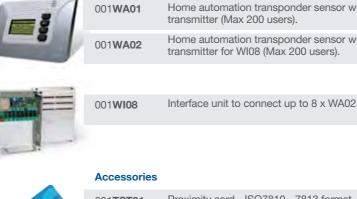


Dimensions in millimetres (25.4 mm = 1 in)



The complete range

230V A.C. 433,92 MHz radio control unit



Interface unit to connect up to 8 x WA02.

Proximity card - ISO7810 - 7813 format. 001**TST01** 001**TST04** Re-writable proximity card - ISO7810 - 7813 format. 009**PCT** Proximity key fob.

009**TAG**

Glass transponder bulb for TSP01

A02	WI08
240	IP54
A.C.	230 A.C. 50/60 Hz
3,92	-
-	5
-4 °F to 131 °F	
PA6 - PMMA	ABS - PC - PA6 - PMMA
	230V A.C. • 12V A.C.



Wave

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ith built-in "stand-alor	e"
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Home automation transponder sensor with built-in

(It can be housed on TOP-432NA - TOP-434NA - TOP-862NA TOP-864NA - Atomo - Twin - Touch).

Accessories

Access control pages 160-165 Safety pages 166-175 Radio control pages 176-189

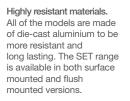
Set Control accessories

A complete product line for remotely giving the open and close commands. CAME offer product solutions for servicing a variety of differing situations and satisfying real user needs. The SET series of keyswitches are all made of die-cast aluminium and are robust enough to resist tampering and acts of vandalism.



Open with the Transponder. The TSP01 transponder sensor allows the user to trigger the automation system using either TST01 or TST04 proximity cards, or alternatively, with the handy PCT keyfobs or TAG transponders. Up to 250 passes can be saved.

Also with magnetic key. The SEM-2 model with magnetic key lets you use a practical and lightweight . coded key.





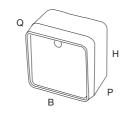


Advantages of Set

CAME's range of control keyswitches includes 7 models. They differ according to type of command and function. From the traditional metal key switch selector, to the version featuring a practical and lightweight magnetic key (which facilitates customised commands for multiple users). The TSP01 model memorises up to 250 different transponders, an essential feature in complex multiple-user systems.

Dimensions

Model and dimensions (mm)				
SET-I	70	70	73	13
SET-E - SET-EN	70	70	86	13
SET-K	70	70	73	13
SET-J	70	70	45	13
TSP01	70	70	43	13
SEM-2	70	70	86	13
SMA - SMA2	23	94	92	
PCT	33	49	4	
TST01 TST04		ISO 7810 - 7813		



Tachnical factures

lechnical tea	atures						
Туре	SET-I	SET-E / SET-EN	SET-J	SET-K	SEM-2	TSP01	SMA / SMA2
Protection rating	IP54	IP54	IP54	IP54	IP54	IP54	-
Contacts range (A - V)	1 - 24	1 - 24	3 - 24	3 - 24	1 - 24	5 - 24	5 A
Max. no. of cards	-	-	-	-	-	250	-
Operating temperature (°C/°F) -20 °C to 55 °C -4 °F to 131 °F							
Material	Alu alloy	Alu alloy	Alu alloy	Alu alloy	Alu alloy	ABS	ABS

The complete range

-	Selectors	
	001 SET-I	Flush-mounted key switch with aluminiu
	001 SET-E	Surface-mounted key switch with alumin
	001 SET-EN	Black-varnished, surface-mounted key sw
	001 SET-K	Flush-mounted key switch with aluminiu flap-door and cylinder.
	001 SET-J	Surface-mounted key switch with alumin flap-door and cylinder.
â	001 SEM-2	Surface-mounted magnetic key switch w
2	001 SEC	Code magnetic key.
0	001 TSP01	Stand-alone transponder for card, key-for
	001 TST01	Proximity card - ISO7810 - 7813 format.
08	001 TST04	Re-writable proximity card - ISO7810 -
	009 PCT	Proximity key fob.
	009 TAG	Glass transponder bulb for TSP01 (It can be housed on TOP-432NA - TOP-434I
	009 SMA	One-channel magnetic loop-detector se
	009 SMA2	2 channel magnetic loop-detector sense
	001 CLM	Natural anodized aluminium post with ta Height = 1 m.
	001 CSS	Natural anodized aluminium post for SE Height = 1 m.
	001 CLMN	Black anodized aluminium post with tarr Height = 1 m.
11	001 CSSN	Black anodized aluminium post for SET- Height = 1 m.





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um alloy casing and DIN lock cylinder.

inium alloy casing and DIN cylinder.

witch with aluminium alloy casing and DIN cylinder.

um alloy casing, lock protecting

inium alloy casing, lock protecting

with aluminium alloy casing.

fob and TAG reader for up to 250 users.

7813 format.

4NA - TOP-862NA TOP-864NA - Atomo - Twin - Touch.)

ensor.

amper-proof support for SEM-2.

ET-I - SET-K - TSP01.

mper-proof support for SEM-2.

-I - SET-K - TSP01.

Digital Control accessories

The secure and functional digital keypad. CAME's digital keypads command an automated system through a personal numeric code. Safe and user friendly thanks to a technology which allows control to take place outside of the keyboard, they are built of steel and provide a guarantee of reliability and durability, while at the same time doing away with traditional keys.



User-friendly and illuminated. For practical use in any unlit outdoor areas, the S5000 version is fitted with courtesy lights that light up the keypad.

No cables or digging reauired. The S9000 wireless model is specifically designed to solve any installation issues when the setting lacks existing wiring or where it is difficult to position/lay cables.

Highly resistant materials. All of the models are built in die-cast aluminium and stainless steel for resistance, durability and reliability over time.





Advantages of Digital

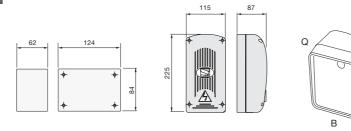
Code security is safeguarded by more than 16 million numerical combinations and an electronic anti-burglary system which blocks the device's functionality in the event of tampering.

Also available is the S9000 wireless version. Employing radio frequency technology, it is especially suited for settings where no wiring exists or would be difficult or costly to install.

The Digital series selectors are a valid alternative to do away with any worries about carrying keys around.

Dimensions

	Model and dimensions (mm)				
	S5000	80	130	40	-
1	S6000	70	70	73	13
k	S7000	70	70	51	13
	S9000	70	70	32	13



S0001 - S0002

S0004N

Technical features

Гуре	S5000	S6000
Protection rating	IP54	IP54
Power supply (V)	12-24 A.CD.C.	12-24 A.CD.C.
Combinations	16,777,216	1,679,616
Frequency (MHz)	-	-
Code ciphers	8 Max	6 Max
Dperating temperature (°C/°F)		-20 °C to 55
Material		Alu al

The complete range

Keypad selectors

	001 S5000	Galvanized and painted steel surface-m 16,777,216 combinations.
1		
D	001 S6000	Flush-mounted keypad. 1,679,616 com
L	001 S7000	Surface-mounted keypad. 1,679,616 co
	001 S9000	433,92 MHz surface-mount radio keypa



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1 S9000	433,92 MHz surface-mount radio key
	programming access password.
	Compatible with AF43S - AF43SM -
	1,562,500 combinations (390,625 pos

SHAR De	
	2

001 S0001	One-channel card for S5000 - S6000
001 S0002	2 channel card for S5000 - S6000 - S



4 channel card for S5000 - S6000 - S7000. 001**S0004N** Possibility of radio controlling the 1st channel. (4 memorisable codes).

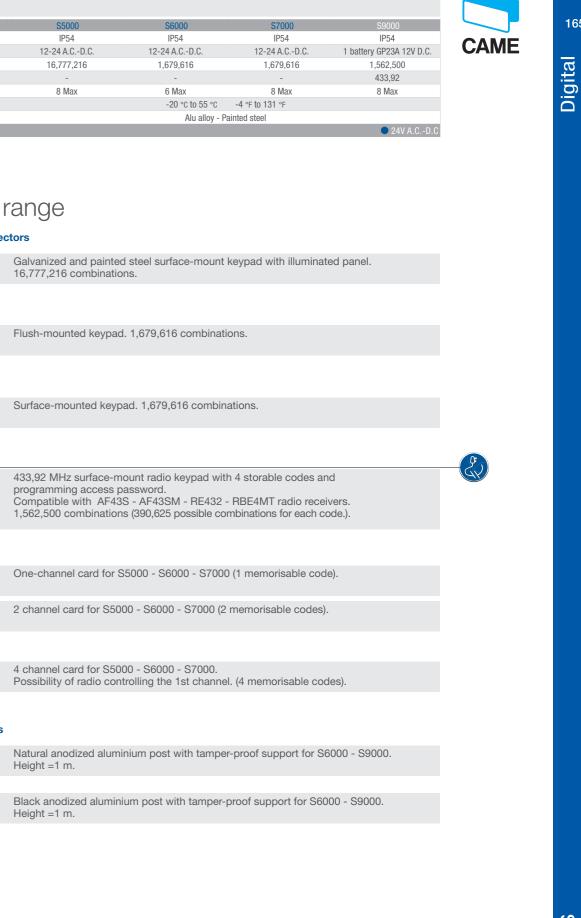
Accessories

001 CSS	Natural anodized aluminium post with ta Height =1 m.
001 CSSN	Black anodized aluminium post with tam Height =1 m.

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Dimensions in millimetres (25.4 mm = 1 in)



ACCESSORIES

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Kiaro Safety accessories

Smart flashing light.

Modern design, attractive materials, energy efficiency and the ability to program the light to give periodic warnings when the system requires maintenance. The Kiaro series of flashing lights guarantees not only high safety standards but includes other features that makes it much more than just a flashing light.



Maximum modularity when mounting. The radio antenna can be integrated and mounted on either side of the flashing light.

The assistant flashing light. The KIAROIN and KIARO24IN flashing lights can be set to warn when the system has performed, 5,000, 10,000, 20,000 or 50,000 operations. It is an automatic solution for programming the system's routine maintenance schedule.

Dedicated accessories. The KIAROS modular. wall-mounting bracket is designed to work in any possible installation scenario Adjustments: 90°- 180°- 270°.









Advantages of Kiaro

The Kiaro series of flashing warning lights are the result of thoughtful, precise and accurate engineering. They are built with high quality, durable materials and are designed to meet the application needs of modern automated installations, and to help them conform with current safety regulations.

As well as the traditional movement-notification function, the KIARO-IN flashing light has a special way of counting the manoeuvres carried out by the system. On reaching the pre-set threshold, a red light alternates with the standard yellow one to warn that the system needs periodic maintenance.

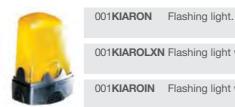
Limits to use		
Model	Lamp (W)	Power supply (V)
KIARON	25	230 A.C. 50/60 Hz
KIAROLXN	6 (XENON)	230 A.C. 50/60 Hz
KIAROIN	25	230 A.C. 50/60 Hz
KIAR024I	25	24 A.CD.C.
KIAR024IN	25	24 A.CD.C.
		─ 230V A.C. ● 24V D.

Tachnical factures

lecnnical teatures					
Туре	KIARON	KIAROIN	KIAROLXN	KIAR024N	KIAR024IN
Protection rating	IP54	IP54	IP54	IP54	IP54
Power supply (V)	230 A.C. 50/60 Hz	230 A.C. 50/60 Hz	230 A.C. 50/60 Hz	24 A.CD.C.	24 A.CD.C.
Dimensions (mm)	130 x 170 x 76	130 x 170 x 76	130 x 170 x 76	130 x 170 x 76	130 x 170 x 76
Lamp power (W)	25	25	6	25	25
Duty cycle (%)	50	50	50	50	50
Operating temperature (°C/°F)		-20	°C to 55 °C -4 °F to 1	31 °F	
Material	ABS – Polycarbonate	ABS – Polycarbonate	ABS – Polycarbonate	ABS – Polycarbonate	ABS – Polycarbonate
				0 230)V A.C . 🔵 24V A.CD.C

The complete range

230V A.C. flashing lights



001**KIAROLXN** Flashing light with xenon lamp. 001KIAROIN Flashing light with manoeuvres counter fu



24V A.C.-D.C. flashing lights

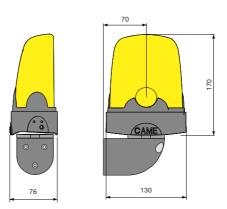
001KIARO24N Flashing light.

001KIARO24IN Flashing light with manoeuvres counter



001**KIAROS** Wall fixing bracket.

Dimensions



Dimensions in millimetres (25.4 mm = 1 in)



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5	
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and Press		
unction.		

	-241
function.	

Safety accessories

Sensitive edges for total safety. Designed to meet current safety norms, DF sensitive safety edges are the answer to the requirements of multiple active protection. CAME offers a host of ready to install and customisable profiles to suit the requirements of any installation.



Certified and patented product. The Df models are patented by CAME and are built in compliance with the EN12978 and EN954-1 European Standards, ensuring systems that are always certified and compliant.

Even on sliding gates. The DB Wireless photocells allow you to use the Df sensitive edges even on the moving gate leaves of sliding gates, on the front and back of the actual leaf.



Entirely deformable The internal mechanism of the Df ensures the edge is entirely deformable along the entire length and has no rigid parts.



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Advantages of Df

Completing a certified automation system is now vitally important. This is true for both the installer who carries out the job as well as the client who wants to guarantee its safe use. CAME meets these needs with many specifically designed solutions, all of which comply with European Standards and are tested according to strict company standards that ensure safety is the number one priority when creating every new product. The Df sensitive safety-edges are therefore, along with other dedicated accessories, the optimal solution to

	Limits to use	
	Model	Df
	Max length (m/ft)	6 / 19'8"
-	Max speed at leaf edge (m / min) (ft / min)	12 / 39'4"
1		
6		
12.		
		\mathbf{A}
	Dimonoiono	
1000	Dimensions	
		Max length of the profile
		o assemble = 6 m / 19'6" ft
	20 190	
	190	
	46	
	\checkmark \checkmark	

Technical features

up to 6 m

up to 19'8" ft

Туре	DF15 - DF17 - DF20 - DF20N -	DF25	
Protection rating	IP54		
Max. length (m/ft)	6 / 19'8"		
24V relay Max range (A)	1		
Operating temperature (°C/°F)		-20 °C to 55 °C	-4 °F to 131 °F
Material	TPE 65 Short A		

The complete range

Sensitive safety edges

	001 DF15	Grey sensitive mechanical safety edge. L For use in combination with 001DFI self-
	001 DF17	Grey sensitive mechanical safety edge. L For use in combination with 001DFI self-
	001 DF20	Grey sensitive mechanical safety edge. L For use in combination with 001DFI self-
	001 DF25	Grey sensitive mechanical safety edge. L For use in combination with 001DFI self-
	001 CMP	Grey rubber and aluminium profile for ma For use in combination with 001DFI self-
	001 DF20N	BLACK sensitive mechanical safety edge For use in combination with 001DFI self-
	001 TME	Sot of cape and machanisms for maximu

001 TMF	Set of caps and mechanisms f
001 TMF6	Set of caps and mechanisms f
001 DFI	Self-diagnosing card for DF el

Cable collecting kits

the states	BRC5 KIT	Power cable holder system for sensitivity installed on sliding gates up to 5m in le
	BRC10 KIT	Power cable holder system for sensitivi installed on sliding gates up to 10m in
	BRC15 KIT	Power cable holder system for sensitivi installed on sliding gates up to 15m in
le me leg	001 BRCP	Aluminium extension profile for use wi

Sensitive safety edges

	009 CP30	Rubber and aluminium profile for pneuma
-1	001 PPA	N.O. contact pressure-switch.
-1	001 PPC	N.C. contact pressure-switch.
\bigcirc	009 TBP	Connector tube for PPC and PPA.
~		
	009 TP30	Rubber cap for pneumatic sensitive edg

raise system safety and quality to the highest possible levels.

168

IP54 4 / 13'1"

CAME

DF

169

TPE 65 Short A

Length = 1.5 m / 4'11" -diagnosing card.

Length = 1.7 m / 5'6" -diagnosing card.

Length = 2 m / 6'6" f-diagnosing card.

Length = 2.5 m / 8'2" -diagnosing card.

naximum 6 m long DF sensitive edges. -diagnosing card.

ge (length 2 m / 6'6" ft). f-diagnosing card.

for maximum 4 m long DF sensitive safety edges.

for maximum 6 m long DF sensitive safety edges.

lectrical connections.

ive safety edges, length. (1 x BRC5 + 1 x BRCP)

ive safety edges, n length. (1 x BRC10 + 2 x BRCP)

ive safety edges, n length. (1 x BRC15 + 3 x BRCP)

rith BRC. Length = 5.1 m

natic sensitive edges. H = 30 mm

ges H = 30 mm



Doc-Dir

Safety accessories

Infrared-beam photocells. Vitally important for compliance with European Standards, CAME photocells are specifically designed to provide effective control of a door or gate's area of movement. This is a necessary accessory to guarantee safety standards in any setting.



DOC

The Doc series comes in both the surface mounted and flush mounted versions. Its compact dimensions and easy-to-install features make these devices extremely versatile and suitable for all possible scenarios.

DIR

The Dir series offers maximum modularity when mounting thanks to a complete range of accessory profiles. These are especially designed to be installed in any possible setting.

Protection against impacts. With a protective cover made from a robust alloy, the DIR-Z is a useful accessory when the photocell needs to be protected from potential impacts against it.



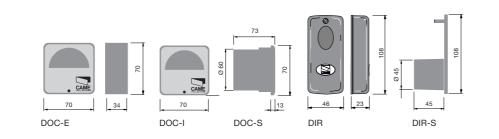


Advantages of Doc-Dir

DOC is the most widely used series of photocells for all applications. It gives considerable range and the option for external or flush mounting. The DIR infrared photocell cuts out possible interference from other apparatus in the system, due to auto-synchronisation of the infrared beams between transmitter and receiver. Yielding remarkable savings in terms of time and cables, the DIR can be easily installed, even in systems fitted with a host of devices, such as those found in industrial settings.

Limits to use					
Model	DIR10	DIR20	DIR30	DOC-I	DOC-E
Max range (m)	10	20	30	18	18
				1 2V-	-24V A.CD.C.

Dimensions



Dimensions in millimetres (25.4 mm = 1 in)

Technical features

IECHINCAI IEALUIES			
Туре	DOC-I	DOC-E	DIR10 - DIR20 - DIR30
Protection rating	IP54	IP54	IP54
Power supply (V)	12-24 A.CD.C.	12-24 A.CD.C.	12-24 A.CD.C.
Max range (m)	18	18	10 - 20 - 30
24V relay Max range (A)	1	1	1
24V A.C. current draw (mA)	60	60	60
Operating temperature (°C/°F)		-20 °C to 55 °C -4 °F to 131 °F	
Material	ABS – Polycarbonate	ABS – Polycarbonate	ABS – Polycarbonate
			12V-24V A.CD.C.

The complete range

Doc Series photocells 001**DOC-I** Pair of flush mount photocells complete with casing. Range: 18 m / 59 ft. 001**DOC-E** Pair of flush mount photocells. Range: 18 m / 59 ft. Doc series accessories



009 DOC-S	Flush mount casing.
001 DOC-R	Steel support for DOC-E (for pillar surfa
00120011	
001 DOC-L	Natural anodized aluminium post. H =
001DOC-L	
001 DOC-LN	Black anodized aluminium post. H = 50

Dir series infrared photocells with synchro-beam

001 DIR10	Pair of photocells. Range: 10 m / 32'9"
001 DIR20	Pair of photocells. Range: 20 m / 65'7"
001 DIR30	Pair of photocells. Range: 30 m / 98'5"

Dir series accessories

1040		
	001 DIR-S	Flush mount casing.
1	001 DIRZ	Aluminium alloy impact-proof protection.
1	001 DIR-L	Natural anodized aluminium post. H = 50
	001 DIR-LN	Black anodized aluminium post. H = 50 c
	001 DIR-P	Natural anodized aluminium extension fo To apply on double pair of Dir photocells.
	001 DIR-PN	Black anodized aluminium extension for I To apply on double pair of Dir photocells.



face mounting).

50 cm

50 cm.

0 cm.

or DIR-L. H = 50 cm post.

DIR-LN. H = 50 cm post.

Safe, fast, anywhere.

Db

The new, improved series of Db wireless photocells provide a revolutionary way to install protection. They are also a great solution for retrofitting to existing projects, as they save on costly digging and masonry work. Because it is bidirectional, the Db also lets you have perimeter coverage on all types of automation devices.



Easy installation. Today, Wireless technology makes using safety devices much more flexible. It especially favours the installation of systems that will provide total peace-ofmind to the end user.

Bidirectional beam. The DBC03 and DBC04 modules are able to both receive and transmit in two directions. This feature enables them to provide perimeter protection.

Battery powered. The DBC01 transmitter and DBC03 and DBC04 repeaters run on standard sized AAA batteries. We recommend using long-life lithium batteries to avoid unnecessary inconvenience to the end user.







Advantages of Wireless Db

The Db is the new bidirectional wireless photocell which removes any issues related to additional groundwork, cabling and conduit.

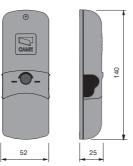
It is a battery-operated device, efficient and provides continual service with little consumption. Using long-life lithium batteries ensures many months of maintenance-free operation.

Also, thanks to its bidirectional capability, with few additional items you can offer perimeter protection, increasing safety.

Limits to use			
Model	DBC01	DBC03	DBC04
Max Range (m)	10	10	10
			• 12V-24V A.CD.C.

NOTE: Uses 4 x 1.5v AAA batteries. min.1000mAh. (Supplied separately)

Dimensions

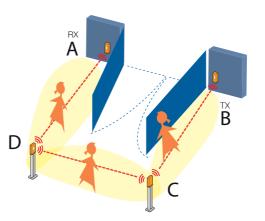


nical features	DB	
rating	IP54	
supply (V)	12-24 A.CD.C. (RX - DBC01)	CAME
es (V)	4 x 1.5 AAA LR03	
nge (m/ft)	10 / 32' 8"	
ay Max range (mA)	500	
draw	DBCT 70µA - DBC01 50mA (24V A.C.) - DBC03 150µA - DBC04 150µA	
ng temperature (°C/°F)	-20 °C to 55 °C -4 °F to 131 °F	
1	ABS – Polycarbonate 12V-24V A.C.	
e complete	range	
Db series	photocells	
001DBC0	•	
	Pair of surface mount wireless monodirectional infrared photocells	
	 Pair of surface mount wireless monodirectional infrared photocells 1 receiver + 1 battery operated transmitter (batteries not included). Surface mount bidirectional infrared repeater module (batteries not included) 	
001 DBC0	Pair of surface mount wireless monodirectional infrared photocells 1 receiver + 1 battery operated transmitter (batteries not included).	
001 DBC0	 Pair of surface mount wireless monodirectional infrared photocells 1 receiver + 1 battery operated transmitter (batteries not included). Surface mount bidirectional infrared repeater module (batteries not included) (side receiver + front transmitter). Range: 10 m / 32' 8" ft. 	
	 Pair of surface mount wireless monodirectional infrared photocells 1 receiver + 1 battery operated transmitter (batteries not included). Surface mount bidirectional infrared repeater module (batteries not included) (side receiver + front transmitter). Range: 10 m / 32' 8" ft. Surface mount bidirectional infrared repeater module (batteries not included) (front receiver + side transmitter). Range: 10 m / 32' 8" ft. 	
001 DBC0	 Pair of surface mount wireless monodirectional infrared photocells 1 receiver + 1 battery operated transmitter (batteries not included). Surface mount bidirectional infrared repeater module (batteries not included) (side receiver + front transmitter). Range: 10 m / 32' 8" ft. Surface mount bidirectional infrared repeater module (batteries not included) (front receiver + side transmitter). Range: 10 m / 32' 8" ft. 	

Db series	photocells

Db series photocells Image: Complete range 01DBC01 Pair of surface mount wireless monodirectional infrared photocells 1 receiver + 1 battery operated transmitter (batteries not included). Image: Complete range 01DBC03 Surface mount bidirectional infrared repeater module (batteries not included). Image: Complete range 01DBC04 Surface mount bidirectional infrared repeater module (batteries not included) (side receiver + front transmitter). Range: 10 m / 32' 8" ft. Image: Complete range 01DBC04 Surface mount bidirectional infrared repeater module (batteries not included) (front receiver + side transmitter). Range: 10 m / 32' 8" ft. Image: Complete range DitDBC04 Surface aluminium post. H = 50 cm. Image: Complete range 01DB-LN Black anodized aluminium post. H = 50 cm. Image: Complete range	ng V) ft) range (mA) perature (°C/°F)	DB IP54 12-24 A.CD.C. (RX - DBC01) 4 x 1.5 AAA LR03 10 / 32' 8" 500 DBCT 70µA - DBC01 50mA (24V A.C.) - DBC03 150µA - DBC04 150µA -20 °C to 55 °C -4 °F to 131 °F ABS – Polycarbonate 12V-24V A.CD.C.	CAME
001DBC01 Pair of surface mount wireless monodirectional infrared photocells 1 receiver + 1 battery operated transmitter (batteries not included). 001DBC03 Surface mount bidirectional infrared repeater module (batteries not included) (side receiver + front transmitter). Range: 10 m / 32' 8" ft. 001DBC04 Surface mount bidirectional infrared repeater module (batteries not included) (front receiver + side transmitter). Range: 10 m / 32' 8" ft. 001DBC04 Surface mount bidirectional infrared repeater module (batteries not included) (front receiver + side transmitter). Range: 10 m / 32' 8" ft. Accessories 001DB-L Natural anodized aluminium post. H = 50 cm.	-	-	
(side receiver + front transmitter). Range: 10 m / 32' 8" ft. 001DBC04 Surface mount bidirectional infrared repeater module (batteries not included) (front receiver + side transmitter). Range: 10 m / 32' 8" ft. Accessories 001DB-L Natural anodized aluminium post. H = 50 cm.		Pair of surface mount wireless monodirectional infrared photocells	
(front receiver + side transmitter). Range: 10 m / 32' 8" ft. Accessories 001DB-L Natural anodized aluminium post. H = 50 cm.		r receiver + i battery operated transmitter (batteries not included).	
001 DB-L Natural anodized aluminium post. H = 50 cm.	001 DBC03	Surface mount bidirectional infrared repeater module (batteries not included) (side receiver + front transmitter). Range: 10 m / 32' 8" ft.	
	8	Surface mount bidirectional infrared repeater module (batteries not included) (side receiver + front transmitter). Range: 10 m / 32' 8" ft. Surface mount bidirectional infrared repeater module (batteries not included)	
001 DB-LN Black anodized aluminium post. H = 50 cm.	001 DBC04	Surface mount bidirectional infrared repeater module (batteries not included) (side receiver + front transmitter). Range: 10 m / 32' 8" ft. Surface mount bidirectional infrared repeater module (batteries not included) (front receiver + side transmitter). Range: 10 m / 32' 8" ft.	
	001DBC04	Surface mount bidirectional infrared repeater module (batteries not included) (side receiver + front transmitter). Range: 10 m / 32' 8" ft. Surface mount bidirectional infrared repeater module (batteries not included) (front receiver + side transmitter). Range: 10 m / 32' 8" ft.	

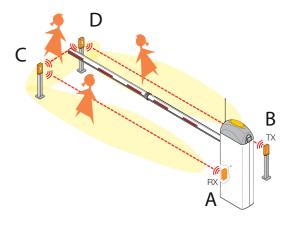
Application schemes



Example of perimeter coverage on a swing gate with Wireless photocells. A = DBC01 receiver B = DBC01 transmitter

C = DBC03 repeater

D = DBC04 repeater



Example of perimeter coverage on a Parking barrier with Wireless photocells.

A = DBC01 receiver

B = DBC01 transmitter

C = DBC03 repeater

D = DBC04 repeater



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Db+Df Integrated safety system

For sensitive safety edges on sliding gates. Using the Db series photocells and Df sensitive edges, installers can now fit active protection on sliding gates as required by the European Standards.

The infrared bidirectional protection extends the field of detection, while the soft deformable edge protects against accidental contact with people, objects or pets.

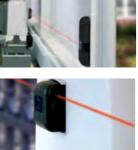


Battery powered. Using long life lithium batteries to power the photocells ensures many months of maintenance-free operation. This feature does away with the need for complex cabling operations, which would otherwise be required.

Patented product. The Db+Df integrated system is an exclusive CAME patent.

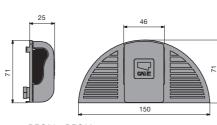


Add on to the BX-243, Bx and Bk series The receiver is connected directly to the operator's control board and can receive the modulated, infrared beam on opposite axis. This feature makes it possible to install sensitive edges on both ends of the sliding gate without the need for complicated wiring.





Dimensions





Technical features

Туре	DBS01 -
Protection rating	
Power supply (V)	24 A.
Batteries (V)	4 x 1.5
Max range (m/ft)	1
Current draw (mA a 24V A.C.)	48 (F
Operating temperature (°C/°F)	-20 °C to 55 °
Material	ABS –

The complete range

Connection	systems for Df sensitive safety edges
001 DBS01	Pair of wireless bidirectional infrared pho Built-in receiver and external transmitter For Bx-243, Bx and Bk series operators
001 DBS02	Pair of wireless bidirectional infrared pho Built-in receiver and external transmitter For Bx-243, Bx and Bk series operators
001 DBCT	Surface mount transmitter module to co (Max range: 10 m / 32'8" ft).

Advantages of Db+Df

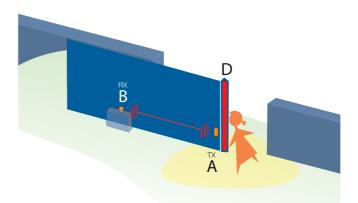
Ready for integral mounting on sliding gate operators of the Bx-243, Bx and Bk series, the Db photocells are the answer to increased safety requirements in sliding gate systems.

Battery-powered wireless operation means that installation is simple. No digging, cabling or masonry work is necessary. This system is easier to set up while at the same time providing greater safety. Even the paperwork is easier, because the products are already certified.

	Limits to use			
	Model	DBS01	DBS01	DBCT
	Max range (m / ft)	10 / 32'8"	10 / 32'8"	10 / 32'8"
	Max speed at leaf edge (m / min) (ft / min)	12 / 39'4"	12 / 39'4"	12 / 39'4"
				• 24V A.CD.C.
-	NOTE: Lless / x 1 5v AAA batteries	min 1000mAb	(Supplied separately)	

NOTE: Uses 4 x 1.5v AAA batteries. min.1000mAh. (Supplied separately)

Application schemes



Find in the diagram an example of standard installation on a sliding gate with Wireless photocells. A = Pair of photocells - DBS01 (TX)B = Pair of photocells - DBS01 (R)

D = Safety sensitive edge - Df series

Dimensions in millimetres (25.4 mm = 1 in)

1 - DBS01 - DBCT

IP54 IA.C.-D.C. (RX) 1.5 AAA10 (TX) 10 / 32'8" 3 (RX) - 70 (TX) 5 °C -4 °F to 131 5 - Polycarbonate

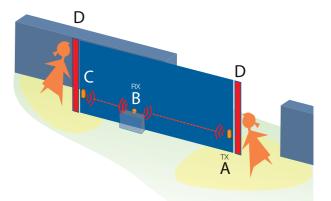


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otocells with single contact output. r (batteries not included). ; (Max range: 10 m / 32'8" ft).

otocells with double contact output. r (batteries not included). s (Max range: 10 m / 32'8" ft).

ombine with DBS02 (batteries not included)



Find in the diagram a possible application of the Db+Df integrated system on a sliding gate.

A = Pair of photocells - DBS01 (TX)

B = Pair of photocells - DBS01 (RX)

C = Additional DBCT transmitting module

D = Sensitive safety edges - Df series

Atomo Radio remote control system

Total safety.

A blend of design and technology, this elegant and ergonomic product employs state-of-the-art materials while prioritising security. Atomo utilises "rolling code" technology, which varies with each impulse and guarantees maximum security and secrecy of the emitted signal.



Easy "self-learning". Atomo can memorise the code from the transmitter to the receiver through its radio self-learning function.

Long-lasting performance. Atomo transmitters are powered with lithium micro batteries, supplied as standard on all models. High autonomy is achieved through low energy consumption.



Double function. Atomo can house a TAG transponder sensor which also lets you use it as a proximity card.





433,92 MHz rolling code

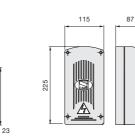
Advantages of 433,92 MHz Atomo

With every command impulse, a new 'rolling' code is transmitted. This code is generated from over 4 billion possible combinations using a sophisticated algorithm that only its respective receiver can decode. For even greater security, Atomo's 'double-checking' feature make each unique transmitter truly impossible to clone.

It comes in the 1, 2 and 4 channel versions, and is the perfect solution when you need to integrate various controls into one apparatus: automatic gate, garage door operator, outdoor lighting etc. thanks to small, outdoor receivers which can be located anywhere.

Limits to use	
Model	Range (m / ft)
AT01	50 - 150 / 160' - 500'
AT02	50 - 150 / 160' - 500'
AT04	50 - 150 / 160' - 500'

Dimensions



RE432RC

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RBE4RC

Tochnical foaturos

rechnicarieatures		
Туре	AT01	
Frequency (MHz)	433,92	4
Batteries	2 x CR2016 Lithium	2 x CR
Dimensions (mm)	32 x 68 x 13	32
Combinations	4,294,967,896	4,29
Operating temperature (°C/°F)		-20 °C to 55 °C
Material	ABS	
Weight (g)	16	

The complete range

433,92 MHz rolling code transmitters.

9	001 AT01	One-channel rolling code transmitter. 4,2
	001 AT02	2 channel rolling code transmitter. 4,294
	001 AT04	4 channel rolling code transmitter. 4,294

433,92 MHz rolling code receivers.

001 AF43SR	Plug-in radio frequency card for Max. 25
001 RE432RC	12 - 24V D.C. IP54 surface mount 2 char

001**RBE4RC** 12 - 24V D.C. IP54 surface mount 4 channel receiver for Max. 500 transmitters, complete with 1 AT04 transmitter (master).

Accessories

009**TAG**

001TOP-A433N Antenna.

Package of 2 x 3V D.C. CR2016 lithium batteries. 001**P3V**

Glass transponder bulb for TSP01.

001TOP-RG58 Antenna cable.

433,92 R2016 Lithium x 68 x 13 94,967,896 °C -4 °F to 131 °F ABS 16



433,92

2 x CR2016 Lithium

40 x 85 x 12

4,294,967,896

ABS 22



294,967,896 combinations.

1.967.896 combinations.

4,967,896 combinations.

5 transmitters.

annel receiver for Max. 25 transmitters.

433,92 MHz

Technical featur	es			
Туре	TAM-432SA	T432	T434	T438
Frequency (MHz)	433,92	433,92	433,92	433,92
Batteries	2 x CR2016 Lithium	1 x 12V AAA battery	1 x 12V AAA battery	1 x 12V AAA battery
Dimensions (mm)	24 x 68 x 12.5	45 x 92 x 15	45 x 92 x 15	45 x 92 x 15
Combinations	16,777,216	16,777,216	16,777,216	16,777,216
Operating temperature (°C/°F)		-20 °C to 55 °C	-4 °F to 131 °F	
Material	ABS	ABS	ABS	ABS
Weight (g)	12	44	46	46

The complete range

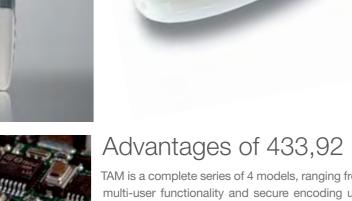
001 TAM-432SA	2 channel multi-user transmitter.	16,777,2
001 T432	2 channel multi-user transmitter.	16,777,
001 T434	4 channel multi-user transmitter.	16,777,2
001 T438	8 channel multi-user transmitter.	16,777,2

433,92 MHz receivers

1	001 AF43S	Plug-in radio frequency card.
	001 AF43SM	Plug-in radio frequency card with memor
-		
	001 RE432	12 - 24V A.CD.C. IP54 surface mount 2
	001 RBE4N	12 - 24V A.CD.C. IP54 surface mount 4
-	001 RBE42	230V A.C. IP54 surface mount 4 channel
	001 RBE4MT	12 - 24V A.CD.C. IP54 surface mount 4 receiver to store up to 999 codes (users).
2		
	Accessories	
4	001 TOP-A433N	Antenna.
	001 P3VB	Package of 2 x 3V D.C. CR1620 lithium b

001TOP-RG58 Antenna cable.

433,92 MHz transmitters



Easy encoding. TAM-432SA lets you memorise codes from "transmitter to transmitter" through its radio-encoding function. So you can easily generate copies if you have the original.

Standard multi-user mode.

TAM remotes emit their own separate code-differentiated

commands; perfect for those

functionality is a must. (i.e. apartment buildings)

applications where multi-user

The multi-user radio system In both industrial installations and residential apartment complexes, it is often necessary to have a radio receiver that can manage differentiated codes. The RBE4MT is the answer to this need. It comes complete with a display on which to monitor up to 999 codes and features a back-up function.





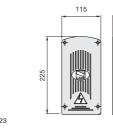
Advantages of 433,92 MHz Tam

TAM is a complete series of 4 models, ranging from 2 to 8 channels, all with multi-user functionality and secure encoding utilising 16 million possible combinations.

The receivers that they are paired with come in 6 models; there are plug-in radio frequency cards that fit straight into the standard CAME control panels, or external 2 or 4 channel cards (featuring multi-code storing) that are housed in their own separate IP54-rated ABS plastic housing. The RBE4MT receiver allows you to manage and store up to 999 different transmitter codes, thus simplifying multi-user management.

Limits to use		
Model	Range (m / ft)	
TAM-432SA	50 - 150 / 160' - 500'	
T432	50 - 150 / 160' - 500'	
T434	50 - 150 / 160' - 500'	
T438	50 - 150 / 160' - 500'	

Dimensions



46 RE432

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RBE4N - RBE42 - RBE4MT

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Tam

Elegance, design and technology for multi-user applications.

transmitter.

Radio remote control system

CAME has concentrated all of its technology and know-how into just 12 grams by making a transmitter

that offers 16 million code combinations, standard

multi-user function, and practicality, all in one handy





179

,216 combinations with self-learning.

.216 combinations.

.216 combinations.

,216 combinations.

bry to store up to 128 codes (users).

2 channel receiver.

4 channel radio module.

l radio module.

4 channel multi-user

batteries (for TAM-432SA).

Tfm Radio remote control system

Up to 8 handy channels.

CAME has concentrated all of its technology and know-how into just 34 grams by making a transmitter that offers 16 million code combinations, standard multi-user function, and practicality in one handy device to control up to 8 different automation devices.



Standard multi-user mode. TFM remotes emit their own separate code-differentiated commands; Perfect for those applications where multi-user functionality is a must. (i.e. apartment buildings)

"Via cable" encoding. The T432 – T434 and T438 models can be connected up by cable to the RBE4N receiver to simplify encoding procedures when there are many identical transmitters, such as in a residential apartment complex.

Up to 8 channels The T158 model of the Tfm 30,900 MHz series lets you control up to eight different channels using only four buttons, thanks to the lateral selector switch.



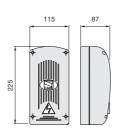


Advantages of 30,900 MHz Tfm

The modulated frequency radio signal is generically less sensitive to external interference and provides for greater range compared to other transmission systems. The Tfm series offers this feature together with the standard multiuser function. It also allows you to encode the transmitters via cable, by connecting them to the receiver. This can dramatically speed up operations, especially in systems where many transmitters are using one code.

	Limits to use	
	Model	Range (m / ft)
	T152	50 - 200 / 160' - 650'
	T154	50 - 200 / 160' - 650'
-	T158	50 - 200 / 160' - 650'
_		

Dimensions



30,900 MHz

RBE4N - RBE42

Technical features		
Туре	T152	T154
Frequency (MHz)	30,900	30,900
Batteries	1 x 12V AAA battery	1 x 12V AAA battery
Dimensions (mm)	45 x 92 x 15	45 x 92 x 15
Combinations	16,777,216	16,777,216
Operating temperature (°C/°F)		-20 °C to 55 °C -4 °F to 131 °F
Material	ABS	ABS
Weight (g)	34	56

The complete range

30,900 MHz transmitters

001 T152	2 channel multi-user transmitter. 16,777
001 T154	4 channel multi-user transmitter. 16,777
0011134	4 Ghannei multi-user transmitter. 10,777
001 T158	8 channel multi-user transmitter. 16,777

Plug-in radio frequency card.

30,900 MHz receivers

001**AF150**

12 - 24V A.C.-D.C. IP54 surface mount 4 channel radio module .. 001**RBE4N**

Accessories

001**RBE42**

001TOP-A309N Antenna.

001TOP-RG58 Antenna cable.



30,900

1 x 12V AAA battery 45 x 92 x 15

> 16,777,216 ABS 56

_
\geq

7,216 combinations.

7.216 combinations.

7,216 combinations.

230V A.C. IP54 surface mount 4 channel radio module.

Тор Radio remote control system

Simple and handy transmitters.

The superheterodyne radio systems are specifically designed to meet all the needs of modern automation systems. Elegant, lightweight design, small dimensions and multi-user capability are the key features of these transmitters.



Standard multi-user mode. The latest TOP series remotes* emit their own separate code-differentiated commands; Perfect for those applications where multi-user functionality is a must. (i.e. apartment buildings)

Easy coding. The Top series lets you memorise codes from "transmitter to transmitter" through its radio-encoding function. So, you can easily generate copies if you have the original.*

Double function. The latest TOP series* models can house a TAG transponder sensor which also lets you use them just like a proximity card in conjunction with TSP00 and TSP01 devices.

Lightweight and compact. Top 868,35 MHz transmitters offer further flexibility to the TOP range of remotes. Containing all the user friendly features of our regular TOP remotes with a new radio frequency.

* Applicable to the following models only: TOP-432NA, TOP-434NA TOP-862NA TOP-864NA





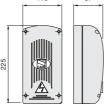








RE432



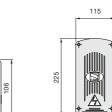
868,35 MHz

Advantages of Top

Complete with a range of 5 radio transmitters and 6 different receivers, the 433,92 MHz TOP series offers a high quality solution characterised by its special ergonomic style and refined design. TOP is the popular solution for radio controlling any type of installation, be that residential or commercial.

The new 868,35 MHz TOP transmitter is a high quality product characterised by its special ergonomic style and refined design. It is designed for residential environments such as apartment buildings.

Limits to use	
Model	Range (m / ft)
TOP-432NA	50 - 150 / 160' - 500'
TOP-434NA	50 - 150 / 160' - 500'
TOP-432A	50 - 150 / 160' - 500'
TOP-434A	50 - 150 / 160' - 500'
T0P432S	50 - 150 / 160' - 500'
TOP-862NA	50 - 150 / 160' - 500'
TOP-864NA	50 - 150 / 160' - 500'



433,92 MHz	Technic

ical features Frequency (MHz) 433,92 433,92 433,92 433,92 x 12V AAA I Batteries 2 x CR2016 Lithium 32 x 68 x 13 40 x 85 x 12 45 x 92 x 15 45 x 92 x Dimensions (mm) Combinations 4,096 4,096 1,024 1,024 Operating temperature (°C/°F) -20 °C to 55 °C Material ABS ABS ABS ABS Weight (g) 16 22 44 45

The complete range

433,92 MHz and 868,35 MHz transmitters

-		
3	001 TOP-432NA	2 channel 433,92 MHz multi-user trans 4,096 combinations with self-learning
de la	001 TOP-434NA	4 channel 433,92 MHz multi-user trans 4,096 combinations with self-learning
2	001 TOP-862NA	2 channel 868,35 MHz multi-user trans 4,096 combinations with self-learning
	001 TOP-864NA	4 channel 868,35 MHz multi-user trans 4,096 combinations with self-learning
-	001 TOP-432A	2 channel 433,92 MHz transmitter 1,02
	001 TOP-434A	4 channel 433,92 MHz transmitter 1,02
	001TOP-432S	2 channel miniaturized 433,92 MHz tra

433,92 MHz and 868,35 MHz receivers

	001 AF868	868,35 MHz Plug-in radio frequency ca
	001 AF43S	433,92 MHz Plug-in radio frequency ca
W.L.	001 AF43SM	433,92 MHz Plug-in radio frequency ca
	001 RE432	12 - 24V A.CD.C. IP54 surface mount
	001 RE862	12 - 24V A.CD.C. IP54 surface mount
	001 RBE4N	12 - 24V A.CD.C. IP54 surface mount
	001 RBE42	230V A.C. IP54 surface mount 4 chann
	001 RBE4MT	12 - 24V A.C D.C. IP54 surface mour up to 999 codes (users).
	Accessories	
4	001 TOP-A433N 001 TOP-A862N	433,92 MHz Antenna. 868,35 MHz Antenna
Q	001 P3V	Package of 2 x 3V D.C. CR2016 lithium (for TOP-432NA - TOP-434NA - TOP-8
	009 TAG	Glass transponder bulb for TSP01 (It can be housed on TOP-432NA - TOP-43
P	001 TOP-RG58	Antenna cable.

Dimensions in millimetres (25.4 mm = 1 in)

RBE4N - RBE42 - RBE4MT

34A	T0P-432S	TOP-862NA	TOP-864NA
2	433,92	868,35	868,35
battery		2 x CR201	6 Lithium
x 15	31 x 65 x 15	32 x 68 x 13	40 x 85 x 12
4	1,024	4,096	4,096
-4 °F to 131 °F			
	ABS	ABS	ABS
	25	16	22

mitter. feature.	
mitter. jeature.	
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024 combinations.

024 combinations.

ransmitter. 1,024 combinations.

ard.

ard.

ard with memory to store up to 128 codes (users).

nt 2 channel 433,92 MHz receiver.

nt 2 channel 868,35 MHz receiver.

nt 4 channel radio module.

nel radio module.

unt 4 channel multi-user receiver to store

n batteries 862NA - TOP-864NA).

34NA - TOP-862NA - TOP-864NA)



183

Top Radio remote control system

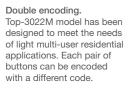
The digitally encoded transmitter.

Top 30,900 MHz series transmitters are all fitted with digital encoding. This technology permits the emitted radio code to be managed using the same keys found on the remote. This guarantees security and ease-of-use.



Digital coding. The digital encoding function makes it possible to use the transmitter's buttons to insert codes. The system thereby makes the code unreadable in the event the transmitter is opened.

The internal battery. The transmitters of the Top 30,900 MHz series are powered by a regular 12V AAA battery.







30,900 MHz

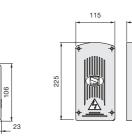
Advantages of 30,900 MHz Top

The signal emitted by the transmitters of the Top 30,900 MHz series is quartz modulated. This provides for maximum selectivity and precision. All remotes in this series are free of the traditional encoding "dip switches" so the code is well-protected even if the device is opened.

The 3022M model with digital "double-code" is perfect for lighter multi-use situations (homes and apartments).

۲	Limits to use	
	Model	Range (m / ft)
	TOP-302A	50 - 150 / 160' - 500'
	TOP-304A	50 - 150 / 160' - 500'
	T0P-3022M	50 - 150 / 160' - 500'

Dimensions



RE301

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RBE4N - RBE42

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IEC	i ii iiCai	teatu	162

lechnical featur	es		
Туре	T0P-302A	TOP-304A	TOP-3022M
Frequency (MHz)	30,900	30,900	30,900
Batteries	1 x 12V AAA battery	1 x 12V AAA battery	1 x 12V AAA battery
Dimensions (mm)	58 x 113 x 23	58 x 113 x 23	40 x 88 x 20
Combinations	1,024	1,024	1,024
Operating temperature (°C/°F)		-20 °C to 55 °C -4 °F to 131 °F	
Material	ABS	ABS	ABS
Weight (g)	16	22	30

The complete range

30,900 MHz transmitters

001 TOP-302A	2 channel transmitter	1,024 combina
001 TOP-304A	4 channel transmitter	1,024 combina

30,900 MHz receivers

001 AF30	Plug-in radio frequency card.
001 RE301	12 - 24V A.CD.C. IP54 surface mount of
001 RBE4N	12 - 24V A.CD.C. IP54 surface mount 4
001 RBE42	230V A.C. IP54 surface mount 4 channel

Accessories

001TOP-A309N Antenna.

001TOP-RG58 Antenna cable.





185

ations.

ations.

001TOP-3022M 2 channel multi-user transmitter 1,024 combinations.

one-channel receiver

4 channel radio module.

el radio module.

Touch Radio remote control system

The elegant, multi-functional 8 channel transmitter. Touch offers over 16 million possible personal code combinations, to be used over 8 different channels. Stylish, elegant and very ergonomic, with a front panel made of polished polycarbonate and a "Soft Touch" rubber grip; Touch doesn't just transmit radio signals it also transmits style.



Diversified light signals. Depending on the operating channel, the transmitter sends a red signal for the first channel sequence, and a light-blue one for the second.

Sensitive buttons. Touch's ergonomics makes this transmitter easy to use. Its sensitive buttons protect the system from involuntary activation.



Harmonized global frequency. Touch works on a frequency that is not limited by prevailing EU and UK regulations, making it more suitable for commercial and industrial applications.





40,685 MHz

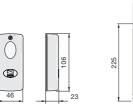
Advantages of 40,685 MHz Touch

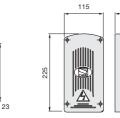
Touch is the latest generation radio transmitter that combines quartz technology with the practicality of multi-use functioning. A single remote control for all automation systems, at home and in the workplace; Pedestrian passageways, gates, overhead garage doors, car-park security, indoor and outdoor lighting, or roller shutters. Touch allows you to create a complete integrated automation system for home or business.

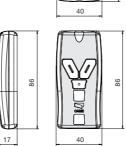
Limits to use	
Model	Range (m / ft)
TCH-4024	50 - 150 / 160' - 500'
TCH-4048	50 - 150 / 160' - 500'

Dimensions

RBE432







TCH4024 - TCH4048

Tochnical foaturos

rechnical realures		
Туре	TCH-4024	
Frequency (MHz)	40.685	
Batteries	1 x 12V AAA battery	
Dimensions (mm)	40 x 86 x 17	
Combinations	16,777,216	
Operating temperature (°C/°F)		-20 °C to 55 °C
Material	Polycarbonate - Rubber	
Weight (g)	45	

The complete range

40,685 MHz transmitters



40,685 MHz receivers

2	001 AF40	Plug-in radio frequency card.
	001 RE402	12 - 24V A.CD.C. IP54 surfa
	001 RBE4N	12 - 24V A.CD.C. IP54 surfa
7.	001 RBE42	230V A.C. IP54 surface moun

C.-D.C. IP54 surface mount 4 channel radio module. P54 surface mount 4 channel radio module.

Accessories



001TOP-RG58 Antenna cable.

009**TAG** Glass transponder bulb for TSP01.

Dimensions in millimetres (25.4 mm = 1 in)

RBE4N - RBE42



Touch

187

40.685 1 x 12V AAA battery 40 x 86 x 17 16,777,216

-4 °F to 131 °F

Polycarbonate - Rubbe 45

001**TCH-4024** 2 + 2 channel multi-user transmitter 16,777,216 combinations with self-learning function.

001**TCH-4048** 4 + 4 channel multi-user transmitter 16,777,216 combinations with self-learning function.

C.-D.C. IP54 surface mount 2 channel receiver

Twin new Radio remote control system

More protection, more convenience.

Twin is the new CAME transmitter with a 12 bit "Duplication Code Lock". This system ensures unauthorised duplication of remote controls is restricted, allowing additional remotes to be cloned only by administrators who have the original code.



CODE LOCK. The administrator's code combination is inserted using the dip-switches. The code is then activated with the transmitter buttons.

CODE LOCK protected self-learning mode. TWIN allows those who know the dip-switch code to memorise commands from "transmitter to transmitter" through its radio-encoding function. Additional remotes cannot be cloned without knowing the secret code.

Top and Tam series receivers.

Compatible with Top and Tam. If they are used without Code Lock. Twin remotes are compatible with 433.92MHz



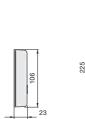
433,92 MHz rolling code

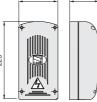
Advantages of 433,92 MHz Twin

The new TWIN multi-user radio remote controls are available in 2 or 4 button variations. They feature rolling code technology utilising 4 billion possible combinations, and are programmable in standard mode (which is compatible with the TOP and TAM series receivers) or "Code-locked" mode to protect the device from unauthorised duplication. A TAG transponder bulb may also be inserted to allow TWIN to activate TSP00 and TSP01 proximity sensors.

Range (m / ft)
50 - 150 / 160' - 500'
50 - 150 / 160' - 500'
ĺ

Dimensions





RE432TW

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Tochnical foaturos

rechnical realures		
Туре	TW02	
Frequency (MHz)	433,92	
Batteries	2 x CR2016 Lithium	
Dimensions (mm)	32 x 68 x 13	
Combinations	4,294,967,896	
Operating temperature (°C/°F)		-20 °C to 55 °C
Material	ABS	
Weight (g)	16	

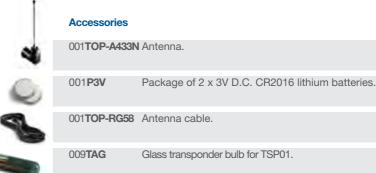
The complete range

433,92 MHz transmitters with KEY CODE

001 TWIN2	2 channel rolling code multi-user trans with KEY CODE.
001 TWIN4	4 channel rolling code multi-user trans with KEY CODE.

433,92 MHz receivers

1	001 AF43TW	Plug-in radio frequency card
	001 RE432TW	12 - 24V A.CD.C. IP54 surf
	001 RBE4N	12 - 24V A.CD.C. IP54 surf
	001 RBE42	230V A.C. IP54 surface mou





RBE4N - RBE42



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n'	-	
F	_	

189

433,92 2 x CR2016 Lithium 32 x 68 x 13 4,294,967,896 -4 °F to 131 °F ABS 16

smitter 4,294,967,896 combinations

smitter 4.294.967.896 combinations

face mount 2 channel receiver.

face mount 4 channel radio module.

unt 4 channel radio module.



A world of safe automation





Industrial door operators



INDUSTRIAL DOOR OPERATORS

The range

The models

CAME provides a full range of motors for large sliding, sectional or folding doors, which are suited for any type of system; including extra-large doors, or where space limitations are an issue and for roller shutters where the versitile H motor is capable of solving most usage requirements.

The table below lists the full range of products for industrial doors and roller shutters in relation to the type of application and the dimensions of the door, to help you quickly choose the right product for the job.

Use		RESIDENTIAL	APARTMENTS	INDUSTRIAL	INTENSIVE USE
		\bigcirc			×
Corico	Madal			(m / ft) May loof weight (//g	
Series	Model			(m / ft) - Max leaf weight (Kg	(/ IU)
F4000 F4000	F4000	2 - 6'5" / 300 - 660 2 - 6'5" / 300 - 660	2 - 6'5" / 300 - 660	0 615" / 200 660	YES
F4000	F4024	2 - 0 3 / 300 - 000	2 - 6'5" / 300 - 660	2 - 6'5" / 300 - 660	TES
Series	Model	FOLDING DOORS (O	NE LEAF) - Max leaf widt	h (m / ft) - Max leaf weight (l	Kg / Ib)
F4000	F4000	1.5 - 5' / 200 - 440	1.5 - 5' / 200 - 440		
F4000	F4024	1.5 - 5' / 200 - 440	1.5 - 5' / 200 - 440	1.5 - 5' / 200 - 440	YES
Series	Model	SLIDING AND SLIDIN	IG FOLDING DOORS -	• Max leaf width (m / ft)	
Cbx	C-BX	11 / 36'	11 / 36'	11 / 36'	
Cbx	C-BXE	5.5 / 18'	5.5 / 18'	5.5 / 18'	
Cbx	C-BXK	11 / 36'	11 / 36'	11 / 36'	
Cbx	C-BXEK	5.5 / 18'	5.5 / 18'	5.5 / 18'	
Cbx	C-BXET		5.5 / 18'	5.5 / 18'	
Cbx	C-BXE24	5.5 / 18'	5.5 / 18'	5.5 / 18'	YES
Cbx	C-BXT		11 / 36'	11 / 36'	
Series	Model	SECTIONAL DOORS V	VITH "DIRECT GRIP" T	RANSMISSION - Max heig	ht door (m / ft)
Cbx	C-BX	5.5 / 18'	5.5 / 18'	5.5 / 18'	
Cbx	C-BXE	5.5 / 18'	5.5 / 18'	5.5 / 18'	
Cbx	C-BXK	5.5 / 18'	5.5 / 18'	5.5 / 18'	
Cbx	C-BXEK	5.5 / 18'	5.5 / 18'	5.5 / 18'	
Cbx	C-BXET		5.5 / 18'	5.5 / 18'	
Cbx	C-BXE24	5.5 / 18'	5.5 / 18'	5.5 / 18'	YES
Cbx	C-BXT		5.5 / 18'	5.5 / 18'	
Series	Model	SECTIONAL DOORS	WITH CHAIN TRANS	MISSION - Max height door	(m / ff)
Cbx	C-BX		8.5 / 28'	8.5 / 28'	(
Cbx	C-BXE		8.5 / 28'	8.5 / 28'	
Cbx	C-BXK		8.5 / 28'	8.5 / 28'	
Cbx	C-BXEK		8.5 / 28'	8.5 / 28'	
Cbx	C-BXET		8.5 / 28'	8.5 / 28'	
Cbx	C-BXE24	8.5 / 28'	8.5 / 28'	8.5 / 28'	YES
Cbx	C-BXT		8.5 / 28'	8.5 / 28'	
	0.0		0.07 20	0.07 20	230-400V A.C. 3-phas

		ROLLER	SHUTTERS - Lift capa	acity (Kg / Ib)	
Н	H1003	120 /265			
Н	H1103	120 /265			
Н	H2003	200 / 440	200 / 440	200 / 440	
Н	H2103	200 / 440	200 / 440	200 / 440	
					• 230V A

Standard recommended installation Compliant with EN12453 and EN12445 safety norms.

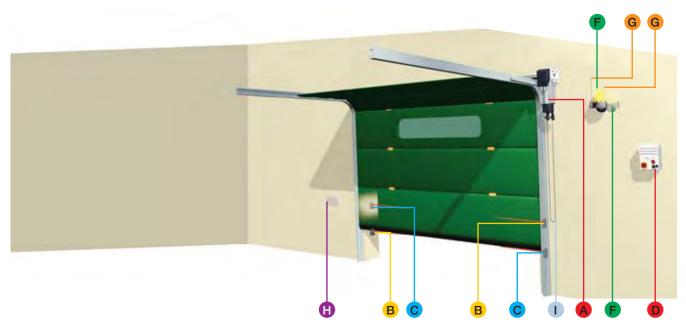
Standard INDUSTRIAL installation

TRAINED users and positioned on PUBLIC STREET

A typical system design will include activation via "remote control radio command", and automation monitoring using the required safety devices; such as photocells, sensitive safety edges and flashing light.

Important

In industrial passageways used by heavy-duty vehicles, such as forklifts, it is always advisable to install infrared beam photocells at two different heights, to prevent the doors from closing should vehicles stop in the middle of the passageway. A flashing light on the inside *and* outside of the doorway is also extremely useful.



Standard issue



ENCODER-based solutions for maximum safety



On certain models, the Cbx series includes an ENCODER-based system to manage the endstops and to detect any obstacles on the door's line of movement, which dramatically increases safety levels.



The scheme shown applies to all Cbx series motors fitted on sectional doors with direct transmission

	<10		10 - 20		20 - 30	
		< 32'8"		32'8" - 65'6"		65'6"- 98'4"
OV A.C.) 750W Max	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG14	3Gx1.5mm ²	3GxAWG14
. 3-phase 750W Max	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15
C. (120V A.C.) 750W Max	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG15
OV A.C. 3-phase 750W Max	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15
400W Max	2Gx1.5mm ²	2GxAWG15	2Gx2.5mm ²	2GxAWG13	2Gx2.5mm ²	2GxAWG13
	*n°x0.5mm²	n°xAWG20	*nx0.5mm ²	n°xAWG20	*nx0.5mm ²	n°xAWG20
25W	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17
WA.C.) 25W	2x1.5mm ²	2xAWG15	2x1.5mm ²	2xAWG15	2x1.5mm ²	2xAWG15
	2x0.5mm ²	2xAWG20	2x0.5mm ²	2xAWG20	2x0.5mm ²	2xAWG20
	4x0.5mm ²	4xAWG20	4x0.5mm ²	4xAWG20	4x0.5mm ²	4xAWG20
	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1.5mm ²	2xAWG15
	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17
	*n°x0.5mm²	n°xAWG20	*n°x0.5mm ²	n°xAWG20	*n°x0.5mm²	n°xAWG20
			RG58 Max 10)m 32'8" ft		

 ${}^{\star}n^{\circ}=$ see documentation ${ lackbdar{\bullet}}$ European standards ${ lackbdar{\bullet}}$ US standards

Eight channels in one single transmitter



The T438 model allows users the possibility to control you up to eight devices from one remote control. It is extremely useful in industrial contexts where commands often need to be centralised. It is practical while providing great range, along with 16 million code combinations.

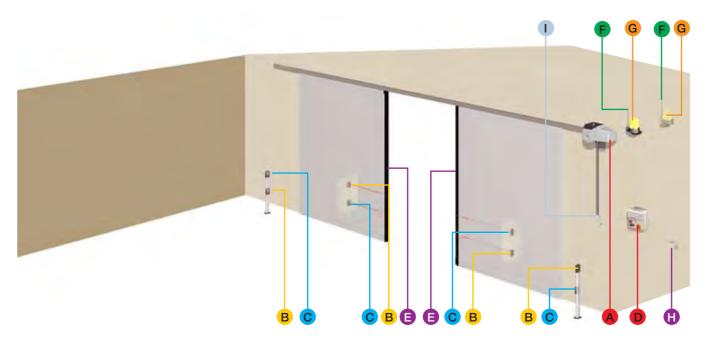
Standard INDUSTRIAL installation

TRAINED users and positioned on PUBLIC STREET

A typical system design will include activation via "remote control radio command", and automation monitoring using the required safety devices; such as photocells, sensitive safety edges and flashing light. **The B + C type minimal solution is therefore required. (ref. page 8)**

Important

In industrial passageways used by heavy-duty vehicles, such as forklifts, it is always advisable to install infrared beam photocells, at two different heights, to prevent the doors from closing should vehicles stop in the middle of the passageway. A flashing light on the inside **and** outside of the doorway is also extremely useful.



Standard issue

Motor
TX wireless photocells
TX/RX wireless photocells
Control Panel
Flashing light
Antenna
Selector switch (key - code - card)
Hanging release device

The scheme shown applies to all Cbx series motors fitted on either sliding doors or folding-sliding doors.

Cable length (ft)		< 32'8"		32'8" - 65'6"		65'6"- 98'4"
Power supply 230V A.C. (120V A.C.) 750W Max	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG14	3Gx1.5mm ²	3GxAWG14
Power supply 230-400V A.C. 3-phase 750W Max	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15
Motor power supply 230V A.C. (120V A.C.) 750W Max	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG15
Motor power supply 230-400V A.C. 3-phase 750W Max	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15
 Motor power supply 24V D.C 400W Max 	2Gx1.5mm ²	2GxAWG15	2Gx2.5mm ²	2GxAWG13	2Gx2.5mm ²	2GxAWG13
O Endstop microswitches	*n°x0.5mm²	n°xAWG20	*nx0.5mm ²	n°xAWG20	*nx0.5mm ²	n°xAWG20
 Flashing light 24V A.CD.C. 25W 	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17
Flashing light 230V A.C. (120V A.C.) 25W	2x1.5mm2	2xAWG15	2x1.5mm ²	2xAWG15	2x1.5mm ²	2xAWG15
TX Photocell	2x0.5mm ²	2xAWG20	2x0.5mm ²	2xAWG20	2x0.5mm ²	2xAWG20
 RX Photocell 	4x0.5mm ²	4xAWG20	4x0.5mm ²	4xAWG20	4x0.5mm ²	4xAWG20
 Electric lock 12V D.C. 	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1.5mm ²	2xAWG15
 Electric lock 24V D.C. 	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17
Commands	*n°x0.5mm²	n°xAWG20	*n°x0.5mm²	n°xAWG20	*n°x0.5mm²	n°xAWG20
Antenna			RG58 Max 1	0m 32'8" ft		
		*n° - 1	see documenta	tion Curone	an etandarde 🧲	LIS standar

° = see documentation ● European standards ● US standards

Dir: the synchronised photocell



The DIR photocells' operation principle consists of auto-sychronising the infrared beams between receiver and transmitter. This function allows for multiple installation requirements that are typical in industrial settings, where devices need to be placed at two different heights.

Touch: the 4+4 channel quartz remote control



8 channels provide 16 million possible code combinations, making Touch a powerful and reliable transmitter. Many applications can be controlled using just one device. Touch has been designed and manufactured to the highest standards, making it a robust, ergonomic and user-friendly remote.

Standard recommended installation

Standard INDUSTRIAL installation

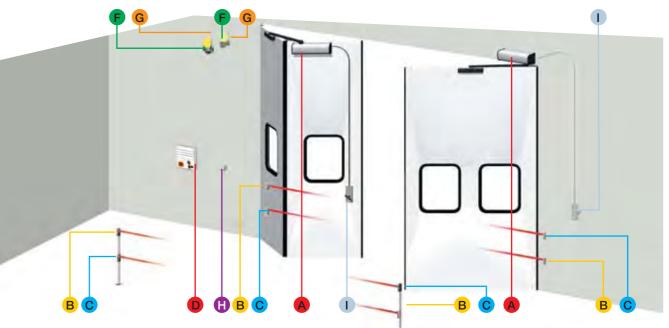
TRAINED users and positioned on PUBLIC STREET

A typical system design will include activation via "remote control radio command", and automation monitoring using the required safety devices; such as photocells, sensitive safety edges and flashing light. **The B + C type minimal solution is therefore required. (ref. page 8)**

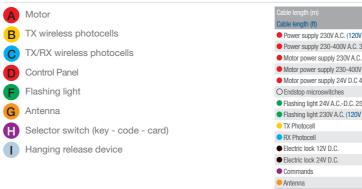


Important

If using EN12445 – EN12453 tested motors and control panels (highlighted with the green EN Tested mark), then sensitive safety edges need not be installed, provided that the required impact-force measurements (taken for each individual installation by the engineer responsible) are compliant with the parameters dictated by the Standards.



Standard issue



Magnetic key entry



The practical SEM-2's magnetic key is a valid alternative for locally commanding any automation. Especially suited to industrial settings, SEM-2 is made of aluminium and is IP54-rated for outdoor use.



The scheme shown applies to all F4000 series motors fitted on folding doors and on hinged, swing doors.

	<10		10 - 20		20 - 30	
		< 32'8"		32'8" - 65'6"		65'6"- 98'4"
OV A.C.) 750W Max	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG14	3Gx1.5mm ²	3GxAWG14
. 3-phase 750W Max	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15
C. (120V A.C.) 750W Max	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG15
OV A.C. 3-phase 750W Max	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15
2 400W Max	2Gx1.5mm ²	2GxAWG15	2Gx2.5mm ²	2GxAWG13	2Gx2.5mm ²	2GxAWG13
	*n°x0.5mm ²	n°xAWG20	*nx0.5mm ²	n°xAWG20	*nx0.5mm ²	n°xAWG20
25W	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17
OV A.C.) 25W	2x1.5mm ²	2xAWG15	2x1.5mm ²	2xAWG15	2x1.5mm ²	2xAWG15
	2x0.5mm ²	2xAWG20	2x0.5mm ²	2xAWG20	2x0.5mm ²	2xAWG20
	4x0.5mm ²	4xAWG20	4x0.5mm ²	4xAWG20	4x0.5mm ²	4xAWG20
	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1.5mm ²	2xAWG15
	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17
	*n°x0.5mm²	n°xAWG20	*n°x0.5mm ²	n°xAWG20	*n°x0.5mm²	n°xAWG20
			RG58 Max 10	Im 32'8" ft		
		+ 0				

*n° = see documentation ${ lackbdar{\bullet}}$ European standards ${ lackbdar{\bullet}}$ US standards

Key-protected safe release



The CMS pull-cord manual release system is the ideal solution to connect hard to reach motors. Indispensable in industrial applications, CMS is made of steel and is protected by a customised key.

Standard ROLLER SHUTTER installation

TRAINED users and positioned on PUBLIC STREET

The automation, which would usually triggered by a nearby button, still requires safety devices to prevent user risks.

Important

For safety reasons it is vital to set up a system with the right control panel that integrates every application with lowvoltage commands capable of controlling all safety accessories such as infrared beam photocells and flashing light.



Standard issue

	Motor	Cable length (m)	<10		10 - 20		20 - 30	
_		Cable length (ft)		< 32'8"		32'8" - 65'6"		65'6"- 98'4"
В	TX Infrared photocells	Power supply 230V A.C. (120V A.C.) 750W Max	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG14	3Gx1.5mm ²	3GxAWG14
0	RX Infrared photocells	Power supply 230-400V A.C. 3-phase 750W Max	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15
U	nx milated photocells	Motor power supply 230V A.C. (120V A.C.) 750W Max	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG15
	Control panel	Motor power supply 230-400V A.C. 3-phase 750W Max	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15	4Gx1.5mm ²	4GxAWG15
-		Motor power supply 24V D.C 400W Max	2Gx1.5mm ²	2GxAWG15	2Gx2.5mm ²	2GxAWG13	2Gx2.5mm ²	2GxAWG13
(F)	Flashing light	O Endstop microswitches	*n°x0.5mm ²	n°xAWG20	*nx0.5mm ²	n°xAWG20	*nx0.5mm ²	n°xAWG20
	Antenna	 Flashing light 24V A.CD.C. 25W 	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17
G	Antenna	 Flashing light 230V A.C. (120V A.C.) 25W 	2x1.5mm ²	2xAWG15	2x1.5mm ²	2xAWG15	2x1.5mm ²	2xAWG15
A	External cord-operated release	TX Photocell	2x0.5mm ²	2xAWG20	2x0.5mm ²	2xAWG20	2x0.5mm ²	2xAWG20
W		 RX Photocell 	4x0.5mm ²	4xAWG20	4x0.5mm ²	4xAWG20	4x0.5mm ²	4xAWG20
	device with command button	Electric lock 12V D.C.	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1.5mm ²	2xAWG15
	lateral sound an excitation of a device	Electric lock 24V D.C.	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17	2x1mm ²	2xAWG17
	Internal cord-operated release device	Commands	*n°x0.5mm²	n°xAWG20	*n°x0.5mm²	n°xAWG20	*n°x0.5mm²	n°xAWG20
		Antenna			RG58 Max 1	0m 32'8" ft		

*n° = see documentation ${\textcircled{\sc 0}}$ European standards ${\textcircled{\sc 0}}$ US standards

External release protected by lock & key



The H3001 container is installed on the outside of the building. It comes complete with the pull-cord manual release system, which is indispensable during a power cut. In the locked container, there is also a convenient command button to activate the automation.

The control panel for a compliant installation

The ZR24 is the CAME control panel specifically designed to be installed on rolling shutters. The container's compact size makes it easy to install and commission for remote control and to connect up to the safety devices, thus making it compliant with current technical standards.

Summary of features

Industrial door operators

OPERATORS – SERIES		F4000 C-BX C-BXK	F4024	C-BX C-BXK F4000	F4024	C-BXE C-BXEK	C-BXE24	C-BXET	C-BXT	H Rolle Shutt Opera
			ZL170N		ZL19N		ZL80 ZL80C	ZT5 ZT5C	ZT6 ZT6C	
FUNCTIONAL FEATURES										
SELF-DIAGNOSIS of active safety devices function		•		•	•	•	•	•	•	
Opening and closing PREFLASHING function		•	•	•		•	•	•	•	
REOPENING during closing function					•			•		
RECLOSING during opening function			•	•	· ·	•	•	•		
				•					•	
Obstacle STALL function	ET	-						-		
TOTAL STOP function	SAFET	•	٠	•	•	•	•	•	•	•
PARTIAL STOP of the gate-leaf function		•	•	•	•	•	•	•	•	
OBSTACLE DETECTION function on photocells	•	•	•	•	•	٠	٠	•	•	
ENCODER operation		•				•	•	•		
MOVEMENT CONTROL and obstacle detection device										
AMPEROMETRIC DETECTION function		•	٠		•	٠	٠	•		
1 leaf PEDESTRIAN OPENING function		•			٠					
1 leaf PARTIAL OPENING function		•		•		•	•	•	•	
TRANSMITTER OPEN ONLY function		•	•	•	•	•	•	•	•	
OPEN ONLY button connection function		•	•	•	•		•	•		
CLOSE ONLY button connection function		•	-	•	•	•	•	•	•	
OPEN-STOP-CLOSE-STOP button connection function	AND	•	•	•	•	•	•	•	•	
	2						•			
OPEN-CLOSE-REVERSE button connection function		-		-	-			-		•
MAINTAINED ACTION command function	•	•	•	•	•	•	•	•	•	•
1st leaf DELAYED CLOSING function	•	•			•					
2st leaf DELAYED CLOSING function	•	•			•					
IMMEDIATE CLOSING function										
EMERGENCY RELEASE function from the remote control										
FLASHING LIGHT connection	•	٠	٠	•	٠	٠	•	٠	٠	•
CYCLE LAMP connection	•	•	•	٠	٠	٠	•	٠	•	
COURTESY LAMP connection		•		•		•	•	•	•	
Antenna connection	•	•	•	•	•	•	•	•	•	
24V ACCESSORIES connections		•		•			•	•		
OPEN WARNING LIGHT connection		•	•	•	•	•	•	•		
CLOSED WARNING LIGHT connection			•	•		•	•			
	•	•				•	•	•		
Contact output for 2nd RADIO CHANNEL			•	•	•	•	•	•	-	
Adjusting RUNNING TIME		•			-				•	•
EXTRACTABLE, NUMBERED connection terminals	FUNCTIONALITY	•	•	•	•	•	•	•	•	•
SELF-LEARNING function of the transmitter's RADIO code		•	٠	•	•	٠	٠	•	•	•
RAM BLOW function to aid the release of the electrolock		•	•		•					
Adjustable AUTOMATIC RE-CLOSING TIME function		•	•	•	•	•	•	•	٠	•
ELECTROLOCK/ELECTRORELEASE connection output	•	•	٠		٠					
OPENING AND/OR CLOSING deceleration		•	٠		•	٠	٠			
EMERGENCY-BATTERY operation (optional)			٠		٠		٠			
MASTER-SLAVE operation mode						٠	٠	•	•	
Adjustable RUNNING SPEED AND DECELERATION function		٠	٠		٠		٠			
Warning DISPLAY		•				٠	٠	•		
Electronic BRAKE				•		•		•	٠	
CONTROL and warning led	•	٠	•	٠	٠	•	•	٠	•	•
SELF-LEARNING function of the opening and closing endstops										



INDUSTRIAL DOOR OPERATORS

Folding door operators

The operator for any type of folding door. The F4000 operator is specifically engineered for bi-folding industrial doors. Due to its versatility however, it can also be used in apartment-block settings. The F4000 is also suitable for powering two-leafed, hinged swing doors, which are typically found in small industrial environments.



Easy-to-use mounting plate. The F4000 comes with an aluminium alloy mounting plate to enable fast installation onto the door leaf or lintel.



One versatile model. F4000 and F4024 are designed for universal left or right installation and so have two entries for the gear shaft.



Even outdoors. The F4000 and F4024 operator are designed for external application and come with weatherresistant gaskets.





24V technology increases the safety level of the system, since it allows you to adjust the run-speed, enables re-opening during closing, and above all, it enables electronic obstacle detection.



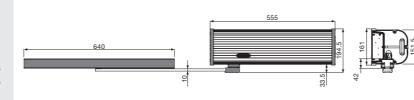
The advantages of the F4000

The F4000 series motors are the ideal solution for medium and large bifolding industrial doors. Attached to the lintel or door leaf (depending on the space available), they provide a safe, linear motion.

They are also well suited for swing doors used in residential premises, and can be used to operate swing-type garage doors.

	Limits to use			
	Model	F4000	F4024	
	Application	Swing doors	with two leaves	Folding doors
31	Width of door leaf (m / ft)	2/6.5	2/6.5	1.5 / 5 (single jointed)
	Weight of door leaf (Kg / lb)	300 / 660	300 / 660	200 / 440
				● 230V A.C. ● 24V D.C.

Dimensions



F4000 - F4024

F4004 SLIDE ARM

Dimensions in millimetres (25.4 mm = 1 in)

Technical features

rechnical realures		
Туре	F4000	
Protection rating	IP54	
Power supply (V) (50/60Hz)	230 A.C.	
Motor power supply (V)	230 A.C. 50/60 Hz	
Rotation speed (RPM)	9	
Current draw (A)	1,9	
Power (W)	235	
Reduction ratio (i)	1/150	
Duty cycle (%)	30	
Torque (Nm)	340	
Operating temperature (°C/°F)		-20 °C to 55 °C
Motor's thermo-protection (°C/°F)	150/302	

The complete range

1 Miles

230V A.C. operator

1	001 F4000	Self-locking operator.
	230V A.C. co	ntrol panels
	002 ZA3C	Control panel with radio decoder, emerge and power isolation switch.
0.4		
	002 ZC3	Control panel with movement control fun safety device diagnostics.
	002 ZC3C	Control panel with movement control fun- activation buttons, power isolation switch
00 -1		
	002 ZM3EC	Multifunction control panel, complete with isolation switch, digital display, built-in ra-
00		
~	24V D.C. ope	rator and control panels
-)	001 F4024	Self-locking operator.

	001 F4024	Self-locking operator.
£-	002 ZL170N	Control panel for one operator with built-
	002 ZL19N	Control panel for two operators with built
No.		
110	002 LB18	Casing with emergency card, fitted to how and ZL19N control panels.
THE		
7	Accessories	
	001 F4004	Transmission slide arm and slide guide.
1		
	001 CMS	Manual release handle with customized k
0	001 C002	Pendulum release system.
44		



	F4024	
	IP54	
	230 A.C.	
	24 D.C.	
	9	
	15 Max	
	180	
	1/150	
	Intensive use	
	470	
-4 °F to 131 °F		
	-	

● 230V A.C. ● 24V D.C.

ency stop button, up/down activation buttons

nction, built-in radio decoder and

nction, built-in radio decoder, emergency stop and ch and safety device diagnostics.

h emergency stop and activation buttons, power adio decoder and safety device diagnostics.



XV



t-in radio decoder.

ilt-in radio decoder.

ouse three 12V - 7 Ah batteries - for ZL170N

key and cord reset. L = 7 m / 23 ft.

Accessories Access control pages 160-165 Safety pages 166-175 Radio control pages 176-189



F4000

Cbx Industrial door operators

Multi-functional automation.

Designed for sectional doors that have "direct transmissions", CBX and is also ideal to power all industrial, sliding and sliding-folding doors. A new concept in automation with a whole range of motors to meet all needs: simply and without modifications to the door.



Free installation. Cbx can be installed vertically to the ground. solving those frequent lack-of-space issues involving industrial doors.



Manual opening. The manual override mechanism is equally at home with horizontal or vertical automation.



Electronic control. Some models in the Cbx series feature an encoder for electronic control of the door's movement. This guarantees maximum movement precision and safety.





When you need maximum power and performance, Cbx's three-phase technology gives the system's potential a major boost and greater thrust as well as better control of movement resistance.



The advantages of the Cbx

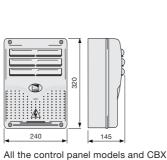
Innovative design plus a compact structure make Cbx the preferred solution for automating large-sized industrial doors.

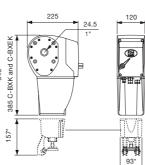
A sleek compact design, the CBX series is an innovative solution for automating industrial doors. It comes in 5 models which can be powered by 230V A.C., 24V D.C. and 3-phase 230-400V A.C.

The beauty of the CBX motor is it's versatility. It can be installed vertically or horizontally and the winch for the manual release can be worked from the ground with the appropriate accessories.

Limits to use							
Model	C-BX	C-BXT	C-BXE	C-BXET	C-BXE24	C-BXK	C-BXEK
Max height of sectional door with							
direct grip transmission (m / ft)	5.5 / 18	5.5 / 18	5.5 / 18	5.5 / 18	5.5 / 18	5.5/18	5.5 / 18
Max height of sectional door with							
chain transmission (m / ft)	8.5 / 28	8.5 / 28	8.5 / 28	8.5 / 28	8.5 / 28	8.5 / 28	8.5 / 28
Max door width sliding doors and							
sliding folding doors (m / ft)	11/36	11/36	5.5 / 18	5.5 / 18	5.5 / 18	11/36	5.5 / 18
			220V A	C 24VI	ר <u>ר</u> כמו	400V A C	2 phace

Dimensions





101	200255011	

Technical featu	res						
Туре	C-BX	C-BXE	C-BXE24	C-BXT	C-BXET	C-BXK	C-BXEK
Protection rating	IP54	IP54	IP54	IP54	IP54	IP54	IP54
Power supply (V) (50/60Hz)	230 A.C.	230 A.C.	230 A.C.	230-400 A.C	. 3-phase 50/60Hz	230 A.C.	230 A.C.
Motor power supply (V)	230 A.C. 50/60Hz	230 A.C. 50/60Hz	24 D.C.	230-400 A.C	. 3-phase 50/60Hz	230 A.C.	50/60Hz
Current draw (A)	2.2	2.2	9 Max	2.5	2.5	3.6	3.6
Power (W)	450	450	240	780	780	750	750
Rotation speed (RPM)	21.5	21.5	26.5	21.5	21.5	21.5	21.5
Duty cycle (%)	30	30	50	50	50	30	30
Torque (Nm)	60	60	25	80	80	120	120
Operating temperature (°C/°F)			-	20 °C to 55 °C -4	°F to 131 °F		
Motor's thermo-protection (°C/°F)	150	150	-	150	150	150	150
					● 230V A.C. ● 24V D.	C. • 230-400V A.(C. three phase

The complete range

230V A.C. operators

001 C-BX	Operator with mechanical endstop (450)
001 C-BXE	Operator with encoder (450W).
001 C-BXK	Operator with mechanical endstop (750)
001 C-BXEK	Operator with encoder (750W).



230-400V A.C. 3-phase operators					
001 C-BXT	Operator with mechanical endstop.				

1C-BXET Operator with encoder.	
---------------------------------------	--

F	230V A.C. cor	ntrol panels
	002 ZC3	Control panel with movement control function and safety device diagnostics. For C-BX are
- a	002 ZC3C	Control panel with movement control function and activation buttons, power isolation sw For C-BX and C-BXK operators.
kb]===		
6 1	002 ZM3EC	Multifunction control panel complete with power isolation switch, built-in radio deco For C-BX and C-BXK operators.
	002 ZCX10	Control panel with digital display, built-in r For C-BXE and C-BXEK operators.
1		
	002 ZCX10C	Control panel complete with emergency s switch, digital display, built-in radio decoc For C-BXE and C-BXEK operators.

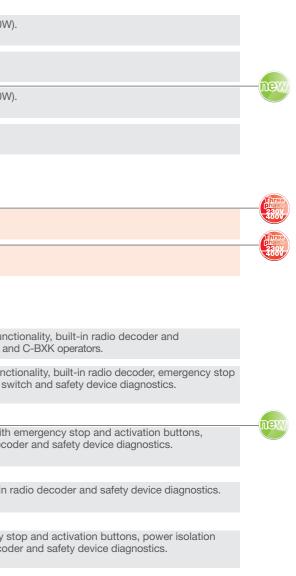
Dimensions in millimetres (25.4 mm = 1 in)

*C001 accessory



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201



Access control pages 160-165 Safety pages 166-175 Radio control pages 176-189

Accessories

Cbx

The complete range

002**ZT5**

002**ZT6C**

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der al	
-	
- 2	
1.0	-
	1

	For C-BXET operator.
002 ZT5C	Control panel complete with emergency stop and activation buttons, power isolation switch, digital display, built-in radio decoder and safety device diagnostics. For C-BXET operator.
002 ZT6	Control panel with built-in radio decoder and safety device diagnostics. For C-BXT operator.

Control panel complete with emergency stop and activation buttons, power isolation switch, built-in radio decoder and safety device diagnostics. For C-BXT operator.

Control panel with digital display, built-in radio decoder and safety device diagnostics.

Doors Turnstiles & Access Control Catalogue



	-	1		
2	157	-		



24V D.C. operator

001C-BXE24 Operator with encoder.

230-400V A.C. three-phase control panels



24V D.C. control panels

- 0027180 Control panel, complete with digital display, built-in radio decoder and safety device diagnostics.
- Control panel complete with emergency stop and activation buttons, power isolation 00271 80C switch, digital display, built-in radio decoder and safety device diagnostics.

Accessories



001**CMS** Release handle with customized key and cord reset. L = 7 m / 23 ft.





009**CCT** Simple 1/2 inch chain for folding and sliding doors. 009**CGIU** Joint for 1/2 inch chain. 001 C001 Manual operations winch for sectional doors. (chain L = 10 m / 32'9" ft). 001**C002** Pendulum release system.

Transmission system for sliding doors, including a rack with Z = 26 pinion for hollow 001 C003 gear shaft, chain tightening transmission system, operator securing brackets and doorleaf fixing brackets.



Permanent micrometric adjustment



Versions with mechanical endstops are fitted with the practical micrometric level which enables optimal and constant adjustment of the doors closing position.

Accessories

Access control pages 160-165 Safety pages 166-175 Radio control pages 176-189



CBX

Chain transmission system for sectional doors (for door leaves higher than 5.5 m / 18 ft) complete with shaft with a Z = 26 pinion for hollow gear shaft, Z = 40 pinion with chain

Transmission system for folding doors, complete with shaft with a Z = 26 pinion for hollow gear shaft, chain tightening transmission system, operator securing brackets

Package of 2 x pre-drilled brackets for sectional doors with ø 25.4 mm spring shaft

Operator support bracket for sectional doors with ø 25.4 mm diameter spring shaft.

New electronics

The new C-BXE series control panels offer the following innovative functions.

- · Electronic encoder controlled movement. This enables reliable obstacle sensing as well as exact adjustment of the "slow-down" and endstops.
- Digital display.
- for easier and more intuitive programming of the features. · Linked control.
- Enables centralized management and control of the closure through a PC. A standard feature of the CBX is the software that manages up to 16 automation systems.
- Reduced thrust.
- Adjustable slow-down speed in opening and closing operations. • Programming of the differentiated control functions.
- Opening with automatic command closing with maintained action command. Electronic movement control.
- With obstacle detection safety function.
- Comprehensive safety device diagnostics. Electronic auto test which checks the working status of the safety devices connected to the system before approving the impulse to the motor
- · Utmost safety even with the door closed.



Rolling shutter operators

New H, the best solution for rolling shutters.

204

The new, improved H series operator is now even more reliable and durable.

Special attention was given to designing the new movement adjustment system, which is now more precise and easier to adjust while at the same time taking up less space.



One versatile model. H offers a universal solution for all the applicative needs thanks to the standard issue adaptors on all its models. The adaptors make installation possible on shutter poles with 48 or 60 mm diameters, and springs with 200 or 220 mm diameters.

The highest possible level of integration. The H1003 and H1103 motors can be coupled with a second motor to increase the lift capacity. Up to 120 Kg and 200 Kg for the two versions with one or two motors.

Installations that are always compliant. The ZR24 control panel is compliant with the current technical safety standards to quarantee installations are always compliant. It is also equipped with built-in radio decoding for remote radio control.

(nev)



New endstop assembly

The gate-run adjustment system has been re-engineered to yield greater precision and ease of adjustment, while reducing overall dimensions.



lift capacity 120 - 200 Kg

lift capacity 265 - 440 lb

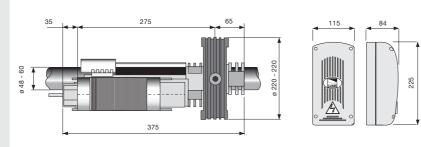
Advantages of H

A safe and easy-to-use system, one model is suitable for all different types of shutters. The H series operators allow for modular installation without the need to make costly alterations. For large-scale applications, the two-motor version increases the lift power.

Also available are all the additional accessories such as the electro-lock with pull-cord release (for reversible versions), and the H3001 container with command button and built-in pull-cord release.

Limits to use				
Model	H1000	H1103	H2000	H2103
Lift capacity (Kg / Ib)	120 / 265	120 / 265	200 / 440	200 / 440
				• 230V A.C.

Dimensions



Dimensions in millimetres (25.4 mm = 1 in)

Technical features				
Туре	H1000	H1103	H2003	H2103
Protection rating	IP40	IP40	IP40	IP40
Power supply (V) (50/60Hz)	230 A.C.	230 A.C.	230 A.C.	230 A.C.
Motor power supply (V) (50/60Hz)	230 A.C.	230 A.C.	230 A.C.	230 A.C.
Current draw (A)	2,4	2,4	4.5	4.5
Power (W)	270	270	500	500
Reduction ratio (i)	1/150	1/150	1/150	1/150
Duty cycle (%)	30	30	30	30
Operating temperature (°C/°F)		-20 °C to 55 °C	-4 °F to 131 °F	
Motor's thermo-protection (°C/°F)	150/302	150/302	150/302	150/302
Crown revolutions (RPM)	9	9	9	9
For				230V A.C.

The complete range

230V A.C. operators for shutter post with a diameter from 48 mm to 60 mm and springs from 200 mm to 220 mm



1 H1003	Self-locking operator complete with corr (Lift capacity: 120 Kg / 265 lb).
1H 1103	Reversible operator (Lift capacity: 120 K
1 H2003	Self-locking operator with two motors c (Lift capacity: 200 Kg / 440 lb).

001**H2103** Reversible operator with two motors (Lif



230V A.C. control panel

ZR24	Control	panel	with	built-in	radio	decode

Accessories

0

01 H3100	230V A.C.	reversible	motor to	combine



Manual release system for H1103 - H2103 reversible operators. Length = 5 m.

001**H3001**

Security container for pull-cord manual release system, complete with automation activation button.

	DOW
d-release	
g / 265 lb).	
omplete with cord-release	
t capacity: 200 Kg / 440 lb).	

with H1003 and H1103 operators.

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II.

CAME



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A world of safe automation



www.cameuk.com





TURNSTILES

Bridge Tripod turnstile



Totally safe, minimal space

Bridge is the silent and precise turnstile to control entry and exit to and from leisure centres, museums, supermarkets and other commercial facilities. Its small size helps manage access even when the space available is limited. It offers several possible options for controlling pedestrian flow to suit the required application.



Finishing Legs and cover in brushed galvanised steel, arms in stainless steel. The tripod casing also comes in white.



Electronics and lock. The top cover features a key lock. The inner part is designed to house the electronic control equipment.

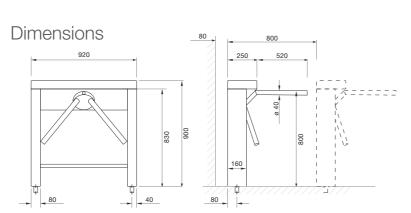


Easy integration. Bridge is easy to use combined with CAME access control systems.





The 24V power supply makes for an easy installation procedure and is at the same time a guarantee of safety for the user.



Dimensions in millimetres 1 in = 25.4 mm

÷	7
T	

The advantages of Bridge

In three different models, all equipped with a hydraulic decelerator, the Bridge is ideal for a wide range of applications.

Carefully crafted aesthetic details and safe rounded corners compliment it's elegant design. Thanks to its galvanised steel structure Bridge is highly resistant to tampering and vandalism.

Technical features

	00		
Туре	PSA	P01	PSAP
Power supply (V) (50/60Hz)	-		230 A.
Motor power supply (V)			24 D.0
Current draw (A)			2.5
Weight (Kg/lb)	40 /	88	40 / 8
Operating temperature (°C/°F)	-20 °C to 65 °C	-4 °F to 149 °F	-20 °C to 65 °C

The complete range

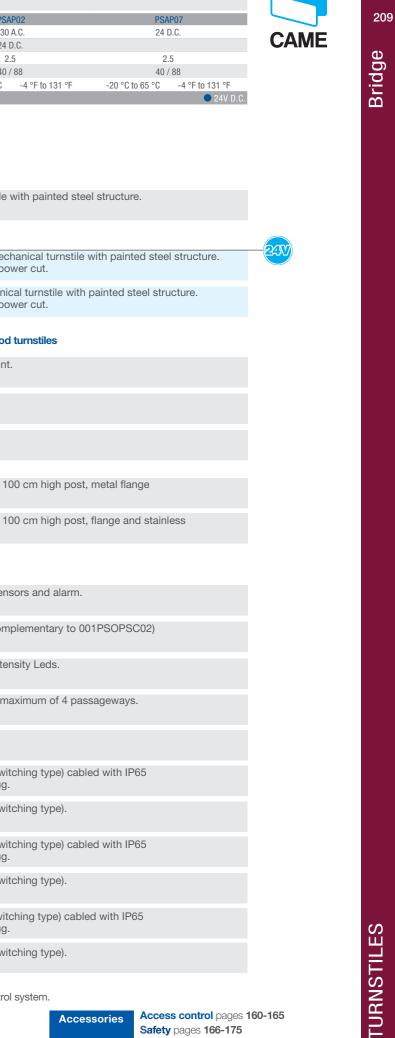
Mechanical tripod turnstile

R	001 PSAP01	Mechanical mono directional turnstile			
	Electromechanical tripod turnstile				
	001 PSAP02	24V D.C. mono directional electromed Tripod automatic release in case of po			
	001 PSAP07	24V D.C. bidirectional electromechani Tripod automatic release in case of po			
	Accessories for m	echanical and electromechanical tripod			
	001 PSOPSC01	Panic-release arms with pressure join			
	001 PSOPCN01	Mechanical counter meter.			
P	001 PSOPGOO	Stainless steel lateral guide barrier.			
P	001 PSOPGO1	Stainless steel lateral guide barrier - 1 and plastic flange cover.			
<	001PSOPGO1X	Stainless steel lateral guide barrier - 1 steel flange cover.			

Accessories for electromechanical tripod turnstiles

J	001 PSOPSC02	Climb-over detection system with sense
Ś	001 PSOPSC03	Cover pressure detection sensor (com
	001 PSOPSF01	Bidirectional traffic light with high-inter
	001PSCSCR04	Console to remotely control up to a ma
	001 PSOPCN03	Electronic counter meter.
	001 PSOPAL01	24V D.C. 2.5 A power supply unit (swit casing with 2 m long cable. 16A plug.
	001PSOPAL01N	24V D.C. 2.5 A power supply unit (swit
Ċ	001 PSOPAL05	24V D.C. 4.5 A power supply unit (swit casing with 2 m long cable. 16A plug.
9	001 PSOPAL05N	24V D.C. 4.5 A power supply unit (swit
	001 PSOPAL06	24V D.C 6.5 A power supply unit (swite casing with 2 m long cable. 16A plug.
	001PSOPAL06N	24V D.C. 6.5 A power supply unit (swit
	NOTES:	

See p. 138 for its use combined with RBM84 access control system.



Radio control pages 176-189

Twister 💿

Electromechanical turnstile

Easy, functional passage selection. The new Twister turnstile from CAME is designed for access control in high-traffic areas. Its stainless steel construction makes it ideal for railway stations, theme parks, sport and leisure facilities and any other public areas and wherever pedestrian flows need to be regulated in a speedy and efficient manner. Twister is the natural compliment to CAME access control systems.



The structure. Made of scotch-brite finished stainless steel with a removable cover and key lock.



The inner mechanism. Equipped with an adjustable hydraulic cushion, control logic, and an automatic release function for the tripod during power cuts.



Integrated access control sensor. Twister is equipped with a transponder sensor. Therefore it can be used with cards or kevfobs, the best solution when controlling access in sport centres and other leisure facilities.

Ideal for access control

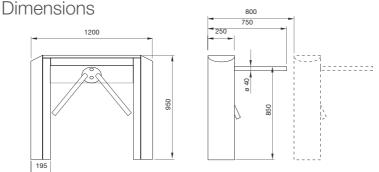
The CAME RBM84 access control system can be fully integrated with our Twister turnstile, delivering a complete access control system.

The advantages of Twister

Twister is CAME's durable and functional solution suitable for any access control requirements. It can be installed anywhere, even in high-traffic settings such as stadiums, train stations, public buildings and sports centres. Managed by a built-in control board, Twister is perfectly compatible with the CAME RBM84 evolved access control system.



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Dimensions	in	millimetres	1	in =	25.4	mm

Technical features

Toorninour routuro	0	
Туре	PSBPS01	PSBP
Power supply (V) (50/60Hz)	-	230 A
Motor power supply (V)		24 D
Current draw (A)	-	2.5
Weight (Kg/lb)	60 / 132	60 / 1
Operating temperature (°C/°F)	-20 °C to 65 °C -4 °F to 149 °F	-20 °C to 55 °C

The complete range

Tripod mechanical turnstile

171	001 PSBPS01	Mechanical mono directional turnstile in			
	Tripod electromechanical turnstile				
	001 PSBPS02	24V D.C. mono directional electromech brite finish. Tripod mechanical and man			
	001 PSBPS07	24V D.C. bidirectional electromechanica finish. Tripod automatic release in case of			

GC

Tripod electromec	hanical turnstile
001 PSBPS02	24V D.C. mono directional electromed brite finish. Tripod mechanical and ma
001 PSBPS07	24V D.C. bidirectional electromechanic finish. Tripod automatic release in case

Accessories for mechanical and electromechanical turnst

	001 PSOPSC01	Panic-release arms with pressure joint.
	001 PSOPCN01	Mechanical counter meter.
)	001 PSOPGOO	Stainless steel lateral guide barrier.
)	001 PSOPGO1	Stainless steel lateral guide barrier - 10 and plastic flange cover.
	004 000 000 4 1	Object to a stand below the first standard of the
	001 PSOPGO1X	Stainless steel lateral guide barrier - 10 steel flange cover.

Accessories for electromechanical turnstiles

	001 PSOPSC02	Climb-over detection system with sense
3	001 PSOPSC03	Cover pressure detection sensor (com
	001 PSOPSF01	Bidirectional traffic light with high-inter
	001 PSCSCR04	Console to remotely control up to a ma
=	001 PSOPCN03	Electronic counter meter.
	001 PSOPAL01	24V D.C. 2.5 A power supply unit (swit casing with 2 m long cable. 16A plug.
	001PSOPAL01N	24V D.C. 2.5 A power supply unit (swit
Ó	001 PSOPAL05	24V D.C. 4.5 A power supply unit (swit casing with 2 m long cable. 16A plug.
	001PSOPAL05N	24V D.C. 4.5 A power supply unit (swit
	001 PSOPAL06	24V D.C 6.5 A power supply unit (swite casing with 2 m long cable. 16A plug.
	001PSOPAL06N	24V D.C. 6.5 A power supply unit (swit

NOTES:

See p. 138 for its use combined with RBM84 access contro

D000	000007		
PS02 A.C.	PSBPS07 230 A.C.		
D.C.	24 D.C.	CAME	
.5	2.5	-	2
132	60 / 132		+
	20 °C to 55 °C -4 °F to 131 °F		Traviotor
	• 24V D.C		
			F
stainless steel with scc	otch brite finishing.		
nanical turnstile in stain nual release.	less steel with scotch	-241	
al turnstile in stainless st of blackout.	eel with scotch brite		
iles			
t.			
00 cm high post, metal	flange		
00 cm high post, flange	e and stainless		
sors and alarm.			
plementary to 001PSC	DPSC02)		
nsity Leds.			
aximum of 4 passagev	vays.		
tching type) cabled wit	h IP65		
tching type).			
tching type) cabled wit	h IP65		
tching type).			
ching type) cabled with	n IP65		C
tching type).			F
l system.	Access control pages 1	160-165	

211

Guardian

High security turnstile

For large passageways

212

Guardian is the best solution when you need wide intensively-used entrances to be totally secure. They do not need to be directly controlled by an attendant, although this is a possibility. Guardian is ideal for outdoor settings with applications in airports, banks, subways, railway stations and large sports stadiums.



Movement control. Guardian is equipped with a hvdraulic decelerator.



Perfect integration. Guardian is easily integrable to all CAME access control svstems.



Passage Indicator. Guardian has a built-in passage indicator.





The 24V power supply makes for an easy installation procedure and is at the same time a guarantee of safety for the user.



The advantages of Guardian

Guardian is our top of the range full-height turnstile. It is the perfect solution where safety and security come first. The sturdy structure and elegant design offer the very highest level of protection against criminal activity and unauthorised access. Reliability and durability are guaranteed even when it is installed outdoors. Thanks to the galvanised steel structure and special epoxy varnishing, it is resistant even in those areas subject to corrosive agents.

Technical features

ioonninour iouturoo			
Гуре	PSHF	PS07	
Power supply (V)	24 [).C.	
Current draw (A)	2.	5	
Weight (Kg/lb)	400 /	880	
Operating temperature (°C/°F)	-20 °C to 55 °C	-4 °F to 131 °F	

The complete range

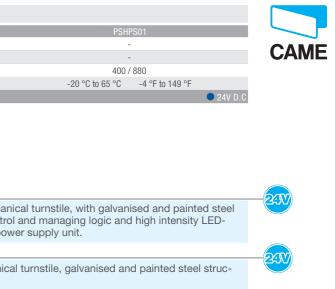
"Full-Height" turnstile

100	A	00
		00
180		
		00
		00
	1-0	

i uli-rieigin	turnstile
001 PSHPS07	Full height bidirectional electromecha structure, hydraulic decelerator, contr indicators on both sides. 24V D.C. po
001 PSHPS01	Full height mono directional mechanic ture, with hydraulic decelerator.

NOTES:

See p. 138 for its use combined with RBM84 access control system.



Accessories

Access control pages 160-165 Safety pages 166-175 Radio control pages 176-189

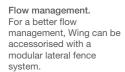
²¹⁴ Wing new Motorised swing turnstile

Quality contemporary design.

Harmony, elegance, smoothness and speed. Wing is perfect for prestigious environments such as hotels, company premises, casinos, showrooms and leisure centres. It's design makes disabled access easy and simple.



Double version. Wing is available also in double version, for larger openings.





1

Perfect integration. A command to open can be administered from any one of a vast range of accessories, and can be integrated with CAME access control systems. Authorised access to reserved areas can then be granted only to identified users.



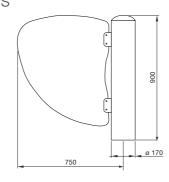


The 24V power supply makes for an easy installation procedure and is at the same time a guarantee of safety for the user.



💐 Wing is a bidirectional motorised swing turnstile. It is composed of a stainless steel structure with an IROKO wood cover. The swing door made from 10mm-thick transparent polycarbonate. The design of the swing door can be customised, allowing it to enhance the architecture of its surrounding environment. Wing features temporised closure and an emergency panic release system. It is also suitable for wider passageways as it is available in a double configuration with synchronised automation. Wing allows easy access for wheelchairs where other turnstiles might cause problems.

Dimensions



- I I I C I

echnical	features	EPCSS00	PSEPCSD00	PSEPCSS00CT	PSEPCSD00CT				
er supply (V) (50/6		30 A.C.	230 A.C.	230 A.C.	230 A.C.				
r power supply (V		4 D.C.	24 D.C.	24 D.C.	24 D.C.	CAME			
nt draw (A)		2.5	2.5	2.5	2.5				
ht (Kg/lb)		0 / 88	40 / 88	40 / 88	40 / 88				
ating temperature	e (°C/°F)		-20 °C to 55 °C	-4 °F to 131 °F	• 24V D.C				
ne cor	mplete ra	ange							
	Motorised swing turnstile								
	001 PSEPCSS00		•	Automatic opening with ease system. Polycarbor					
2	001 PSEPCSD00			rnstile. Automatic openi anic-release system. Po					
9	001PSEPCSS00CT			Automatic opening with ase system. Tempered					
	001PSEPCSD00CT	Double bidirection device; timed clos	nal motorised swing tu sing and emergency pa	rnstile. Automatic openi anic-release system. Ter	ng with command npered glass leaf.				
	Accessories								
0	001 PSOPSC02	Climb-over detect	tion system with sense	ors and alarm.					
\odot	001 PSOPSF01	Bidirectional traffic	c light with high-intens	ity LEDs.					
P	001 PSOPCN03	Electronic counter	meter.						
1111	001 PSCSCR04	Console to remote	ely control up to a max	timum of 4 passageway	S.				
	001 PSOPEPCDIS	Polycarbonate lea	f for disabled access.						
	001PSOPEPCDISCT	Tempered glass le	eaf for disabled access	;.					
	001 PSOPAL01		ower supply unit (switc ong cable. 16A plug.	hing type) cabled with II	P65				
	001PSOPAL01N	24V D.C. 2.5 A po	ower supply unit (switc	hing type).					
	001 PSOPAL05	casing with 2 m lo	ong cable. 16A plug.	hing type) cabled with I	265				
	001 PSOPAL05N	24V D.C. 4.5 A po	wer supply unit (switc	hing type).					
	001 PSOPAL06		wer supply unit (switch ong cable. 16A plug.	ning type) cabled with IP	265				
	001PSOPAL06N	24V D.C. 6.5 A po	ower supply unit (switc	hing type).					
	NOTES:	ico combinad with P	PN/84 access control s	wetom					

Technical	features					
Type Deven events AD (EO/C		EPCSS00	PSEPCSD00	PSEPCSS00CT	PSEPCSD00CT	
ower supply (V) (50/6		230 A.C. 24 D.C.	230 A.C. 24 D.C.	230 A.C. 24 D.C.	230 A.C. 24 D.C.	CAME
lotor power supply (V) urrent draw (A)	1	24 0.6.	24 D.6.	24 D.0. 2.5	24 D.C.	
eight (Kg/lb)		40 / 88	40 / 88	40 / 88	40 / 88	
perating temperature		40 / 00	-20 °C to 55 °C	-4 °F to 131 °F	40700	
seruting temperature	(0,1)		20 0 10 00 0		• 24V D.C	
he cor	mplete r	0				
	Motorised swin	-				-230
	001 PSEPCSS00			Automatic opening with ease system. Polycarbo		
4	001 PSEPCSD00	Double bidirectio device; timed clo	nal motorised swing to sing and emergency p	urnstile. Automatic open panic-release system. Po	ing with command lycarbonate leaf.	
9	001PSEPCSS00CT			Automatic opening with ease system. Tempered		
	001PSEPCSD00C1		•	urnstile. Automatic open anic-release system. Ter	0	
	Accessories					
0	001 PSOPSC02	Climb-over detec	tion system with sens	ors and alarm.		
$\langle \rangle$	001 PSOPSF01	Bidirectional traff	ic light with high-inten	sity LEDs.		
F	001 PSOPCN03	Electronic counter	r meter.			
1111	001 PSCSCR04	Console to remot	ely control up to a ma	ximum of 4 passageway	′S.	
	001 PSOPEPCDIS	Polycarbonate lea	af for disabled access			
	001PSOPEPCDISC	Tempered glass l	eaf for disabled acces	S.		
	001 PSOPAL01		ower supply unit (swite ong cable. 16A plug.	ching type) cabled with I	P65	
	001PSOPAL01N	24V D.C. 2.5 A po	ower supply unit (swite	ching type).		
	001 PSOPAL05		ower supply unit (swite ong cable. 16A plug.	ching type) cabled with I	P65	
A.S	001 PSOPAL05N	24V D.C. 4.5 A po	ower supply unit (swite	ching type).		
	001 PSOPAL06		wer supply unit (switc ong cable. 16A plug.	hing type) cabled with IF	265	
	001PSOPAL06N	24V D.C. 6.5 A po	ower supply unit (swite	ching type).		
	NOTES:	ico combinad with [DRM84 access control	evetem		

See p. 138 for its use combined with RBM84 access control system.

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Wing

Accessories

Access control pages 160-165 Safety pages 166-175 Radio control pages 176-189

Saloon 🔤 Motorised swing turnstile

Easy access control

Saloon is the motorised swing turnstile with a compact design. It can work in a bidirectional mode; the swing door only opens in the direction selected. Perfect for use inside factories. cafeterias, shopping centres, service stations, supermarkets, leisure centres and swimming pools. It's design does not cause a hindrance to disabled users.



Total safety. In the event of a power cut the panic-release system allows the turnstile to be easily pushed opened in either direction

Command impulses. The turnstile can be activated by card, transponder keyfob, push-button or photocell.



Access control. integration with Rbm84 allows complete management of access for up to 5500 users. See page 138 for details.



24 Volt only

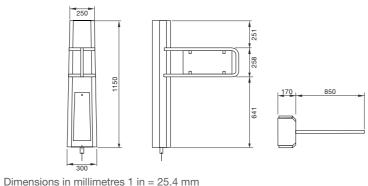
The 24V power supply makes the installation procedure easy and is at the same time a guarantee of safety for the user.



The advantages of Saloon

Saloon is available in two different versions; One version in painted steel and another in stainless steel, ideal for outdoor applications. It is designed to perfectly integrate into a modular lateral fence system. Also available in the double swing version for managing wider passageways.

Dimensions



Technical features

room not rotated oo	
Туре	SALOO
Power supply (V) (50/60Hz)	230 A.(
Motor power supply (V)	24 D.0
Current draw (A)	2.5 / 5
Weight (Kg/lb)	55 / 11
Operating temperature (°C/°F)	-20 °C to 55 °C

The complete range

Motorised swing turnstile

001 PSEP0S00 001 PSEP0S01 001 PSEP0S02	Bidirectional motorised swing turnstile in pain command device; timed closing and emergend Mono directional motorised swing turnstile in p
001 PSEP0S02	Automatic opening with sensor, timed closing
	Mono directional motorised swing turnstile in Automatic opening with sensor, timed closing
001 PSEP0S03	Mono directional motorised swing turnstile in p Automatic opening with command device; clo emergency panic-release system.
001 PSEP0S04	Mono directional motorised swing turnstile in p Automatic opening with command device; clo emergency panic-release system.
001 PSEP0D00	Double bidirectional motorised swing turnstile i with command device; timed closing and emerged
001 PSEP0D01	Double mono directional motorised swing turn opening with sensor, timed closing and emerg
001 PSEP0D02	Double mono directional motorised swing turnst with command device; closing controlled by sense
001PSEP0SM01	"Always open" mechanical mono directional mo and with right-hand post. Flow direction contro alarm and turnstile closing/locking.
001 PSEP0SM02	"Always open" mechanical mono directional me and with left-hand post. Flow direction control s alarm and turnstile closing/locking.
001 PSEP0DM00	Double "Always open" mono directional moto Flow direction control sensor with automatic ing/locking.
001 PSEPSS00	Bidirectional motorised swing turnstile in stainle mand device; timed closing and emergency pa
001 PSEPSS01	Mono directional motorised swing turnstile in s Automatic opening with sensor, timed closing a
001 PSEPSS02	Mono directional motorised swing turnstile in st Automatic opening with sensor, timed closing a
001PSEPSS03	Mono directional motorised swing turnstile in st Automatic opening with command device; close emergency panic-release system.
001 PSEPSS04	Mono directional motorised swing turnstile in st Automatic opening with command device; closi emergency panic-release system.
001 PSEPSD00	Double bidirectional motorised swing turnstile i opening with command device; timed closing a
001 PSEPSD01	Double mono directional motorised swing turn with sensor, timed closing and emergency pani
001 PSEPSD02	Double mono directional motorised swing turnstile with command device; closing controlled by sense

NOC		
A.C.		CANAE
D.C.		CAME
/ 5		
110		
-4 °F to 131 °F		
	• 24V D.C	

tile in painted steel. Automatic opening with l emergency panic-release system.

urnstile in painted steel with right-hand post. ed closing and emergency panic-release system.

urnstile in painted steel with left-hand post. ed closing and emergency panic-release system.

urnstile in painted steel with right-hand post. device; closing controlled by sensor and

urnstile in painted steel with left-hand post. levice; closing controlled by sensor and

g turnstile in painted steel. Automatic opening and emergency panic-release system.

swing turnstile in painted steel Automatic and emergency panic-release system.

ving turnstile in painted steel Automatic opening lled by sensor and emergency panic-release system.

ectional motorised swing turnstile in painted steel tion control sensor with automatic activation of

rectional motorised swing turnstile in painted steel on control sensor with automatic activation of

tional motorised swing turnstile in painted steel. automatic activation of alarm and turnstile clos-

le in stainless steel. Automatic opening with comergency panic-release system.

rnstile in stainless steel and right-hand post. ed closing and emergency panic-release system.

rnstile in stainless steel and left-hand post. ed closing and emergency panic-release system.

rnstile in stainless steel and right-hand post. levice; closing controlled by sensor and

rnstile in stainless steel and left-hand post. evice; closing controlled by sensor and

a turnstile in stainless steel Automatic d closing and emergency panic-release system.

swing turnstile in painted steel Automatic opening gency panic-release system.

ing turnstile in stainless steel. Automatic opening ed by sensor and emergency panic-release system.

Accessories

Access control pages 160-165 Safety pages 166-175 Radio control pages 176-189

²¹⁸ Saloon

The complete range

Motorised swing turnstile



	-
001 PSEPSSM01	"Always open" mechanical mono directional motorised swing turnstile in stainless steel and with right-hand post. Flow direction control sensor with automatic activation of alarm and turnstile closing/locking.
001 PSEPSSM02	"Always open" mechanical mono directional motorised swing turnstile in stainless steel and with left-hand post. Flow direction control sensor with automatic activation of alarm and turnstile closing/locking.
001 PSEPSDM00	Double "Always open" mono directional motorised swing turnstile in stainless steel. Flow direction control sensor with automatic activation of alarm and turnstile closing/locking.

Accessories



2	001 PSOPSC02	Climb-over detection system with sensors and alarm.
	001 PSOPSF01	Bidirectional traffic light with high-intensity LEDs.
	001 PSOPAL01	24V D.C. 2.5 A power supply unit (switching type) cabled with IP65 casing with 2 m long cable. 16A plug.
	001 PSOPAL01N	24V D.C. 2.5 A power supply unit (switching type).
	001 PSOPAL05	24V D.C. 4.5 A power supply unit (switching type) cabled with IP65 casing with 2 m long cable. 16A plug.
	001 PSOPAL05N	24V D.C. 4.5 A power supply unit (switching type).
	001 PSOPAL06	24V D.C 6.5 A power supply unit (switching type) cabled with IP65 casing with 2 m long cable. 16A plug.

001**PSOPAL06N** 24V D.C. 6.5 A power supply unit (switching type).



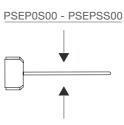
Functioning

Saloon is a bidirectional turnstile that can be placed on either side of the entrance because the electronics allow opening direction to be selected. The open command can be triggered by proximity card readers or other devices and activates the motor-rotation in the direction selected. The leaf opens at 90° and at a pre-set speed except when an obstacle is detected (for example a person standing on the passage area). In this event, the electronics deactivate the motor-rotation and activates an acoustic alarm signal.

Once the obstacle is removed, the leaf automatically completes the movement. When the leaf is in the open position, the electronics wait for the user to pass through the access for a certain pre-set time. Once this time has elapsed, the leaf closes. The electronics can also recognise pedestrian passage through photocells and commands the closing of the leaf without waiting for the pre-set time to elapse.

Saloon is equipped with a panic-release device: if the user pushes the door open with a thrust higher than 8 N, the acoustic alarm activates, and if the turnstile system is motorised (non-emergency situation), the electronics automatically replaces the leaf in the normal position.

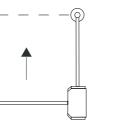
Configurations

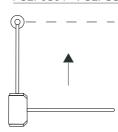


PSEP0S01 - PSEPSS01 -(6)

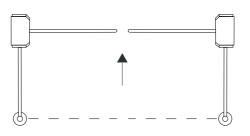
PSEP0S03 - PSEPSS03

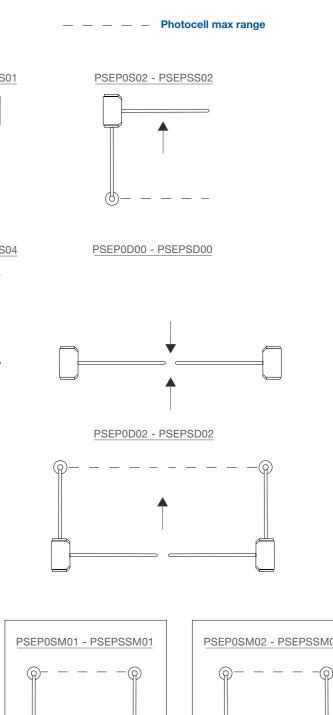
PSEP0S04 - PSEPSS04

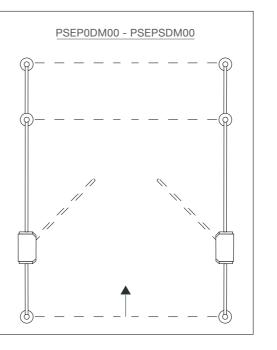




PSEP0D01 - PSEPSD01



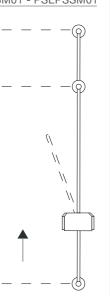


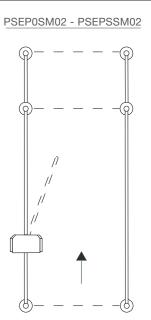






Saloon





TURNSTILES

Compass Revolving turnstile

Easy movement

Compass is the easiest and cheapest solution to efficiently manage high passage flows in retail outlets, supermarkets, service stations and cafeterias. It can also be used in other settings such as leisure centres, holiday resorts, libraries, museums etc. Compass is suitable for almost any situation where the direction of entry or exit needs to be controlled.



Three different openings. It is available with three different type of openings: clockwise, counter-clockwise and bidirectional.

Stainless steel finishing. The securing flange and the flange cover are both in stainless steel.



Flow management For a better flow management Compass can be applied with the addition of the modular lateral fence system. Compass is also equipped with a panicrelease system.





The advantages of Compass

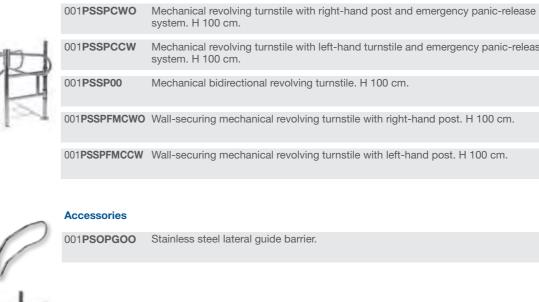
This mechanical revolving turnstile with four arms strictly controls passage of people in both directions. The stainless steel structure makes Compass the right product even for outdoor applications. The entire frame can be unlocked and pivoted on its axis, allowing the entrance to be opened for free access when necessary.

lechnical teat	ures				
Туре	PSSPCWO	PSSPCCW	PSSP00	PSSPFMCW0	PSSPFMCCW
Power supply (V)	-	-	-	-	-
Current draw (A)	-	-	-	-	-
Weight (Kg/lb)	18 / 40	18 / 40	18 / 40	18 / 40	18 / 40
Operating temperature (°C/°F)		-20	°C to 55 °C -4 °F to 1	31 °F	

The complete range

Revolving turnstile

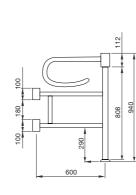
001**PSOPGO1**

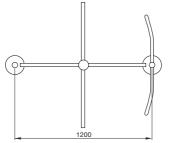


100 cm high post, metal flange and plastic flange cover. 001**PSOPGO1X** Stainless steel lateral guide barrier 100 cm high post, flange and stainless steel flange cover.

Stainless steel lateral guide barrier

Dimensions







221

Mechanical revolving turnstile with left-hand turnstile and emergency panic-release

The simple solution

222

Flag is the mechanical gate with a simple push-toopen system and an automatic gravity closing system. It can be installed in different contexts: leisure centres, cafeterias, retail outlets, emergency exits, shopping centres and supermarkets. It's simplicity allows easy access for wheelchairs.



Opening. It is available with three different type of openings: clockwise, counter-clockwise and bidirectional.



Double Flag. If necessary, two opposing barriers can be installed to control a wide mono directional access-way of up to 180 cm.





The advantages of Flag

new

Flag becomes really ideal when flow passages need to be regulated because of security, safety, control and hygiene. It is perfectly suited to applications within points of sale and as emergency exits. Its simplicity make it a cost effective solution.

Technical features

Toorninour routure			
Туре	PSBPCWO	PSBP	CCW
Power supply (V)	-	-	
Current draw (A)	-	-	
Weight (Kg/lb)	10 / 22	10 /	22
Operating temperature (°C/°F)		-20 °C to 55 °C	-4 °F to 131 °F

The complete range

Mechanical hatch

001PSBPCWO	Mechanical hatch with right-hand post
001 PSBPCCW	Mechanical hatch with left-hand post. I
001 PSBPOO	Bidirectional mechanical hatch. H 100
	001 PSBPCCW

Accessories

	001 PSOPGOO	Stainless steel lateral guide barrier.
\supset	001 PSOPGO1	Stainless steel lateral guide barrier 100 cm high post, metal flange and p
	001 PSOPGO1X	Stainless steel lateral guide barrier 100 cm high post, flange and stainles
	001 PSOPBPSC	Key lock.

PSBP00

-10 / 22



Flag

223

t. H 100 cm.

H 100 cm.

cm.

plastic flange cover.

ess steel flange cover.

Accessories

Lateral fences

Exit Control

For use in conjunction with turnstiles, revolving turnstiles and pedestrian barriers, the CAME range of stainless steel modular lateral fencing ensures a highly safety installation. The range includes 'Exitpass', a section with an emergency panic-release bar.



Lateral fence for trolley passage. The solution for supermarkets.



'Top' lateral fence. The Top in filled lateral fence is intended for use in conjunction with a turnstile system.



Smart lateral fences. To elegantly compliment turnstiles, revolving turnstiles and pedestrian barriers.





Modular lateral fences

A modular system of lateral fences in stainless steel. Easy to assemble, they are absolutely useful if combined with turnstiles, revolving turnstiles and hatches both for directing people flows or for delimiting areas reserved to different types of users.

The complete range

Exitpass Lateral fence

	001PSUS120D	Stainless steel lateral fence with panic- Length = 120 cm. Height = 100 cm.
	001 PSUS120S	Stainless steel lateral fence with panic- Length = 120 cm. Height = 100 cm.
	001 PSUS090D	Stainless steel lateral fence with panic- Length = 90 cm. Height = 100 cm.
	001 PSUS090S	Stainless steel lateral fence with panic- Length = 90 cm. Height = 100 cm.
	001 PSUS060D	Stainless steel lateral fence with panic- Length = 60 cm. Height = 100 cm.
	001 PSUS060S	Stainless steel lateral fence with panic- Length = 60 cm. Height = 100 cm.

Lateral fence for shopping trollies

001 PSTPC100	Mono directional lateral fence with 2 tro Height = 100 cm.
001 PSTPC150	Mono directional lateral fence with 3 tro Height = 150 cm.
001 PSTPC200	Mono directional lateral fence with 4 tro Height = 200 cm.

Lateral fences

001 PSTRV	Galvanised steel post with securing flar Without holes.
001 PSTRV2F	Galvanised steel post with securing flar With 2 holes - Height = 100 cm.
001 PSTRV4F90	Galvanised steel post with securing flar With 2+2 90° holes - Height = 100 cm.
001 PSTRV4F180	Galvanised steel post with securing flar With 2+2 180° holes - Height = 100 cm
001 PSTRV6F	Galvanised steel post with securing flar With 6 holes - Height = 100 cm.
001 PSTRV8F	Galvanised steel post with securing flar With 8 holes - Height = 100 cm.
001 PSTRVX	Post with securing flange and stainless Height = 100 cm.
001 PSTRVX2F	Post with securing flange and flange co Height = 100 cm.
001 PSTRVX4F90	Post with securing flange and stainless Height = 100 cm.
001 PSTRVX4F180	Post with securing flange and stainless Height = 100 cm.
001 PSTRVX6F	Post with securing flange and stainless Height = 100 cm.
001 PSTRVX8F	Post with securing flange and stainless Height = 100 cm.



Accessories

225

-release bar. Right-hand post. -release bar 304. Left-hand post. -release bar 304. Right-hand post. -release bar 304. Left-hand post. -release bar 304. Right-hand post.

-release bar 304. Left-hand post.

olley guides.

olley guides.

olley guides.

Inge and flange cover in chromium plated plastic. Inge and flange cover. Without holes Inge and flange cover. With 2 holes Inge and flange cover. With 2 holes Inge and flange cover. With 2+2 90° holes Inge and flange cover. With 6 holes Inge and flange cover. With 8 holes

²²⁶ Accessories

The complete range

Lateral fences

001 PSTRT050	Horizontal tube for stainless steel lateral fences. Ø 40 mm diameter - 1 mm thick - Length 50 cm.
001 PSTRT100	Horizontal tube for stainless steel lateral fences. Ø 40 mm diameter - 1 mm thick - Length 100 cm.
001 PSTRT150	Horizontal tube for stainless steel lateral fences. Ø 40 mm diameter - 1 mm thick - Length 150 cm.
001 PSTRT200	Horizontal tube for stainless steel lateral fences. Ø 40 mm diameter - 1 mm thick - Length 200 cm.
001 PSTRT250	Horizontal tube for stainless steel lateral fences. Ø 40 mm diameter - 1 mm thick - Length 250 cm.
001 PSTRT300	Horizontal tube for stainless steel lateral fences. Ø 40 mm diameter - 1 mm thick - Length 300 cm.
001 PSTRM001	Junction sleeve in chromium plated plastic complete with fixing screws.
001 PSTRM003	Junction sleeve in stainless steel complete with fixing screws.
001 PSTRM004	Stainless steel wall-securing sleeve complete with screws.

Top lateral fences

001 PSTRPE	Ridged aluminium plate with anticorodal frame-structure.
001 PSTRFPE	Stainless steel plate securing lateral fence and polycarbonate panel. 6 mm thick - Height = 90 cm.
001 PSTRFPA	Stainless steel floor securing lateral fence and polycarbonate panel. 6 mm thick - Height = 90 cm.
001 PSTRFPEN	Stainless steel plate securing lateral fence. Height = 90 cm.
001 PSTRFPAN	Stainless steel floor securing lateral fence. Height = 90 cm

Smart lateral fences

100		
- 10		
- 10		
- 100		
- 10		
- 10		
- 10		
- 10		
- 10		
- 10		
- 10		
- 10		
- 10		
- 10		
- 101		
- 12		
- 10		

Stainless steel post 001**PSTRV80** Height = 90 cm - \emptyset 80 mm diameter. 001**PSTRSFPL60875** 6 mm thick transparent polycarbonate panel dimensions: 800 x 750 mm.



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A world of safe automation



A world of safe automation

www.cameuk.com



Automatic swing and sliding doors



AUTOMATIC DOOR OPERATORS





The range

The models

Automatic doors offer great advantages and added value to a range of facilities; residential, office, or commercial. Convenience, prestige, safety, usability, space-enhancement, and image are just some of the remarkable advantages offered.

Simultaneously sleek and functional, CAME automatic doors make life easier right from the planning phase, where one can choose the best possible door automation solution to fit the given situation.

CAME's automation devices and state-of-the art engineering transform the door from a barrier into a modern convenience.

The table below lists the complete range of swing and sliding door motors, providing a quick reference guide for easy product selection.

Use				INTENSIVE USE
				R
Series	Model	Max weight of door leaf/leaves (Kg / Ib)	Max width of door leaf/leaves (m / ft)	
Fly	PB1100	250 / 550	0.8 / 2'6"	YES
		200 / 440	1 / 3'2"	YES
		150 / 330	1.2 / 4'	YES
Fly	PB2100	250+250 / 550+550	0.8+0.8 / 2'6"+2'6"	YES
		200+200 / 440+440	1+1 / 3'8"+3'2"	YES
		150+150 / 330+330	1'2"+1'2" / 4+4	YES
Corsa	Corsa 1	75 / 165		YES
Corsa	Corsa 2	75+75 / 165+165		YES
Rodeo	Rodeo 1	125 / 280		YES
Rodeo	Rodeo 2	125+125 / 280+280		YES
				• 24V D.C

Standard recommended installation

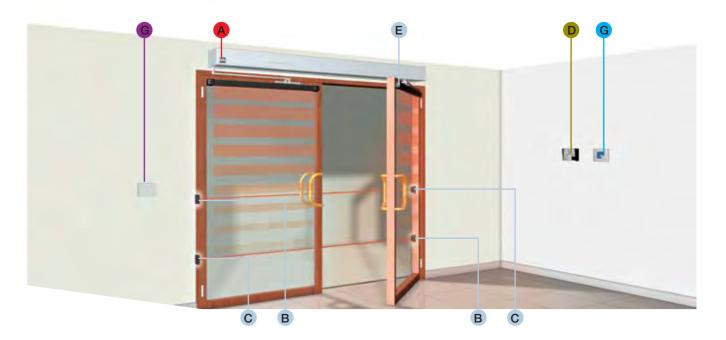
Standard installation for 2-LEAF swing doors

TRAINED users and positioned on PUBLIC STREET

Automatic doors are the automated products that serve the greatest number of users in terms of transit-volumes. These being predominantly of pedestrian nature. It is vital to carefully consider the minimum safety issue-devices to raise the safety level and guarantee usage-intensity.

Important

The equipment shown in the diagram is for information purposes only and the control accessories, such as the radar and sensors, must be evaluated according to the actual needs of the installation.



Standard Issue



Safety radar

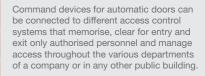


The MR8334 - MR8370 - MR8390 safety radars with anti-masking technology detect the presence of people on the space behind the moving door. Unparalleled protection for those applications when a high level of safety is required.



		< 32'8"		32'8" - 65'6"		65'6"- 98'4"
OV A.C.) 750W Max	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG15
	7x0.5mm ²	7xAWG20	7x0.5mm ²	7xAWG20	7x0.5mm ²	7xAWG20
	4x1mm ²	4xAWG17	4x1mm ²	4xAWG17	4x1mm ²	4xAWG17
	*n°x0.5mm ²	n°xAWG20	*n°x0.5mm²	n°xAWG20	*n°x0.5mm²	n°xAWG20
		*n° = :	see documenta	tion Europea	ın standards 🤇	US standards

Total entry control



Standard Recommended Installation

Standard installation FOR 1-LEAF sliding doors

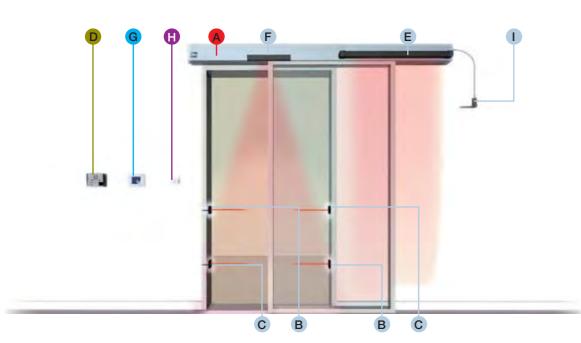
TRAINED users and positioned on PUBLIC STREET

Automatic doors are the automated products that serve the greatest number of users in terms of transit-volumes. These being predominantly of pedestrian nature. It is vital to carefully consider the minimum safety issue-devices to raise the safety level and guarantee usage-intensity.

Important

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The equipment shown in the diagram is for information purposes only and the control accessories, such as the radar and sensors, must be evaluated according to the actual needs of the installation.



Standard issue

A Operators with control panel	Cable length (m)	<10		10 - 20		20 - 30	
	Cable length (ft)		< 32'8"		32'8" - 65'6"		65'6"- 98'4
B TX Infrared photocells	Power supply 230V A.C. (120V A.C.) 750W Max	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG15
C RX Infrared photocells	 Function selector 	7x0.5mm ²	7xAWG20	7x0.5mm ²	7xAWG20	7x0.5mm ²	7xAWG20
	 Touch sensor 	4x1mm ²	4xAWG17	4x1mm ²	4xAWG17	4x1mm ²	4xAWG17
D Function selector	 Commands 	*n°x0.5mm ²	n°xAWG20	*n°x0.5mm²	n°xAWG20	*n°x0.5mm ²	n°xAWG20
Safety radar			*n° = :	see documenta	ition Europea	an standards 🧲	US standard
F Command radar							
Touch sensor							

Ð Selector switch (key - code - card)

Inner pull-chord release for electro-release

• 100001 3upply 2300 A.O. (1200 A.O.) 13000 Midx	JUAT.JIIIII	30040013	JUX1.JIIIII	Jumiuij	JUX1.JIIIII	Juminuit
Function selector	7x0.5mm ²	7xAWG20	7x0.5mm ²	7xAWG20	7x0.5mm ²	7xAWG20
 Touch sensor 	4x1mm ²	4xAWG17	4x1mm ²	4xAWG17	4x1mm ²	4xAWG17
Commands	*n°x0.5mm ²	n°xAWG20	*n°x0.5mm ²	n°xAWG20	*n°x0.5mm ²	n°xAWG20
		*n° =	see documenta	tion ● Europe	an standards 🧲	US standards

The touch sensor



The MS9502 sensor allows a hand-swipe gesture to operate swing or sliding automatic doors. A device specifically designed for applications requiring a local command that can be activated even without using one's hands. A typical example, for hygiene reasons would be in a hospital.

The wireless digital keypad



The S9000 wireless model is designed to solve issues when the installation requires minimal disruption or where it is difficult to lay cables. The code is protected by millions of combinations and by an "electronic antiburglary" system which prevents tampering.

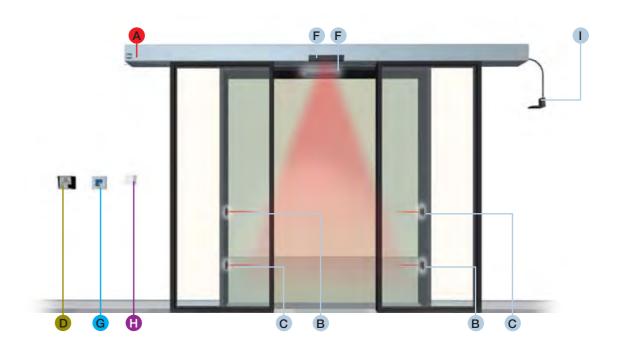
Standard installation for 2-LEAF sliding doors

TRAINED users and positioned on PUBLIC STREET

Automatic doors are the automated products that serve the greatest number of users in terms of transit-volumes. These being predominantly of pedestrian nature. It is vital to carefully consider the minimum safety issue-devices to raise the safety level and guarantee usage-intensity.

Important

The equipment shown in the diagram is for information purposes only and the control accessories, such as the radar and sensors, must be evaluated according to the actual needs of the installation.



Standard issue



Inner pull-chord release for electro-release

Emergency escape



Doors automated with Corsa and Rodeo can be fitted with the Mi push bar system to give the doors a built-in panic-release function. The door leaves swing open whether they are moving or fixed, providing a much quicker mergency exit route out of the building.



		< 32'8"		32'8" - 65'6"		65'6"- 98'4"
OV A.C.) 750W Max	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG15	3Gx1.5mm ²	3GxAWG15
	7x0.5mm ²	7xAWG20	7x0.5mm ²	7xAWG20	7x0.5mm ²	7xAWG20
	4x1mm ²	4xAWG17	4x1mm ²	4xAWG17	4x1mm ²	4xAWG17
	*n°x0.5mm ²	n°xAWG20	*n°x0.5mm²	n°xAWG20	*n°x0.5mm²	n°xAWG20
		*n° = :	see documenta	tion 🗢 Europea	an standards 🤇	US standards

Infrared-beam micro-photocells



Made specifically for automatic doors, they can be installed in very little space by a simple alteration of the door profile. They come in pairs or double pairs and feature a standard issue screened cable that needs to be connected.

Fly Automatic swing doors

Automatic swing doors.

A revolutionary product that is a safe and reliable way to operate any type of door.

Fly is a reversible automation device with a built-in control panel that is easy to use and install. It is well-suited for use in hospitals and other high-traffic settings.



Public buildings such as railway stations, airports, hospitals and public offices.

Commercial buildings such as shops or large distribution warehouses.



Private and service-sector buildings such as in restaurants. sports centres. businesses. hotels and residential properties.

Limits to use			
1 Leaf models	PB1100	PB1100	PB1100
Max weight of door leaf/leaves (Kg)	250	200	150
Max weight of door leaf/leaves (lb)	550	440	330
Max width of door leaf/leaves (mm)	800	1000	1200
Max width of door leaf/leaves (in)	32	40	47
2 Leaved models	PB2100	PB2100	PB2100
Max weight of door leaf/leaves (Kg)	250+250	200+200	150+150
Max weight of door leaf/leaves (lb)	550+550	440+440	330+330
Max width of door leaf/leaves (mm)	800+800	1000+1000	1200+1200
Max width of door leaf/leaves (in)	32+32	40+40	47+47
			2 4V D.C.

Modern swing doors can be automated quickly and easily thanks to Fly,

available in single or double door versions. It is extremely versatile, and thus ideal for settings in which busy people have their hands full, such as medical centres and hospitals, factories or public buildings in general

Advantages of Fly

where architectural barriers need to be dealt with.

Tochnical foaturos

door leaves of up to 1.2 m

door leaves of up to 4' ft

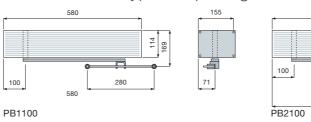
rechnical realures		
Туре	PB1100	
Power supply (V) (50/60 Hz)	230 A.C.	
Motor power supply (V)	24 D.C.	
Current draw (A)	0.6	
Power (W)	138	
Manoeuvre speed 90°(s)	2 ~ 5	
Duty cycle (%)	Intensive use	
Torque (Nm)	40	
Operating temperature (°C/°F)		-20 °C to 55 °C

The complete range

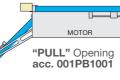
No.

	Complete aut	tomation systems with 24V D.C. operat
	001 PB1100	Automation system for single-leaf swing
	001 PB2100	Automation system for double-leaf swin Profile and profile covers are not include
-		
	001 PF2100 *	Profile and profile cover for PB2100.
Part Careto	Accessories	
	001 PB1001	Straight transmission arm. "PULL" open
1/2	001 PB1002	Articulated transmission arm. "PUSH" o
90	001 MA7034	Emergency panic release system compl
5 8m		
	001 MA7041	Function selector.
H II	Min. length of profile a	e and cover L = 5000 mm. nd cover with con art. 001PB1001 L = 1300 mm. nd cover with con art. 001PB1002 L = 1160 mm.

Dimensions and type of opening

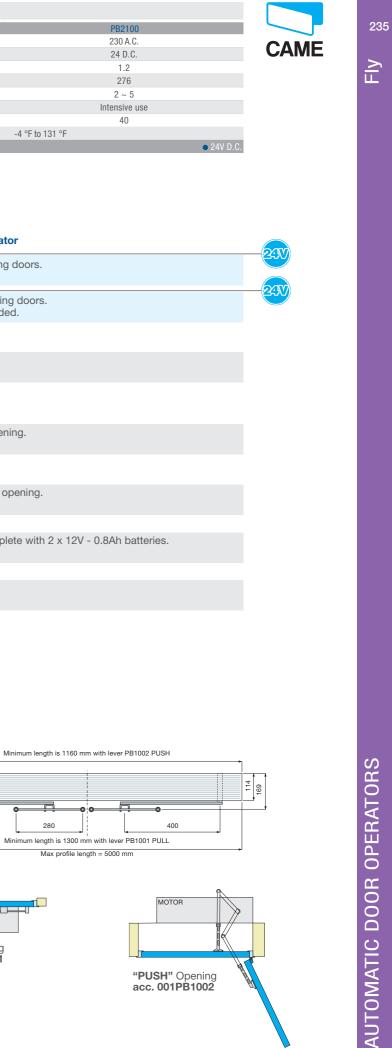


Dimensions in millimetres (25.4 mm = 1 in)



24V technology increases the safety level of the system, since it allows you to adjust the run-speed, enables slow-down in the final phase of opening and closing and enables electronic obstacle detection., which is built-into the control panel.

24V Fly



Corsa-Rodeo

Automatic sliding doors

Intelligent operators.

The rational management of space and the need for simple, quick passage from one room to another make the automatic door an important element in any modern building.

Corsa and Rodeo are the ideal solutions for applications in commercial, residential and high-traffic areas.



Public and commercial facilities such as railway stations, airports, ports, shops, shopping centres and motorway services.

Other public buildings such as banks, office buildings, hospitals and sports centres.



Private buildings such as hotels restaurants homes and businesses.



Limits to use		
1 Leaf models	CORSA 1	RODEO 1
Max weight of door leaf/leaves (Kg / Ib)	75 / 165	125 / 276
Max width of door leaf/leaves (mm / in)	3340 / 132	3340 / 132
2 Leaves models	CORSA 2	RODEO 2
Max weight of door leaf/leaves (Kg / Ib)	75+75 / 165+165	125+125 / 280+280
Max width of door leaf/leaves (mm / in)	1670 / 66	1670 / 66
		24V D.C



up to 75 and 125 Kg up to 165 and 280 lb

Advantages of Corsa and Rodeo

Automatic sliding doors solve any issues related to managing passage between rooms in public and private facilities.

CAME meets the needs of modern building design by offering two 24V automated products that can power any type of sliding door weighing up to 125 Kg per door leaf. Corsa and Rodeo are two intelligent operators that feature micro-processing logic and self-managing opening/closing operation and thrust parameters as well as constant movement control and obstacle-detection.

Technical features					
Туре	CORSA 1	CORSA 2	RODEO 1	RODEO 2	
Power supply (V) (50/60 Hz)	230 A.C.	230 A.C.	230 A.C.	230 A.C.	
Motor power supply (V)	24 D.C.	24 D.C.	24 D.C.	24 D.C.	
Current draw (A)	0.6	0.6	0.6	0.6	
Power (W)	70	70	90	90	
Manoeuvre speed (cm/s)	Max 57	Max 102	Max 45	Max 80	
Duty cycle (%)	Intensive use	Intensive use	Intensive use	Intensive use	
Thrust (Kg/lb)	5/11	5 / 11	8 / 17	8 / 17	
Operating temperature (°C/°F)		-20 °C to 5	5 °C -4 °F to 131 °F		

The complete range

	Complete au	tomation system with 24V D.C. operator
	001 CORSA1	Automation system for single-leaf sliding d
	001 CORSA2	Automation system for double-leaf sliding
ï	001 RODEO1	Automation system for single-leaf sliding d
	001 RODEO2	Automation system for double-leaf sliding
	Accessories	

001 MA7012	Electric lock complete with cord and release
001 MA7032	Card for connecting two 12V – 1.2Ah emer
001 MA7041	Function selector.
	001 MA7032



The 24V technology increases the system's safety level, because it allows adjustment of the operating speed, the final phase of closing and opening, but especially due to its standard-issue, electronic, obstacle-detection function, which is built-into the control panel.



g doors of up to 75 Kg / 165 lb.

ng doors of up to 75 Kg / 165 lb per door leaf.

g doors of up to 125 Kg / 280 lb.

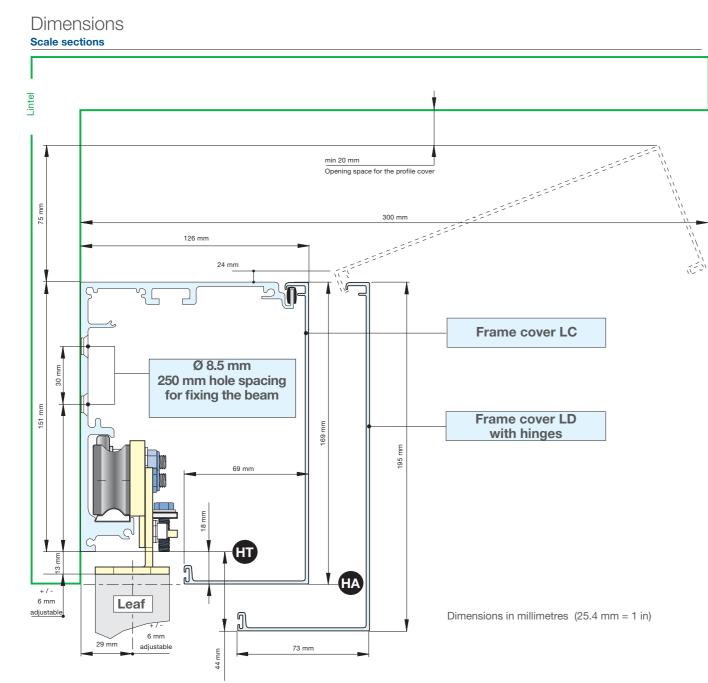
ng doors of up to 125 Kg / 280 lb per door leaf.

ise lever.

rgency batteries with rack.

Corsa-Rodeo

up to 75 and 125 Kg up to 165 and 280 lb



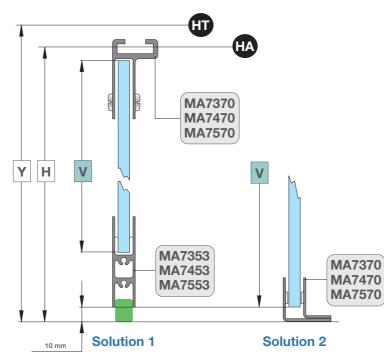


Pre-perforated beam profile

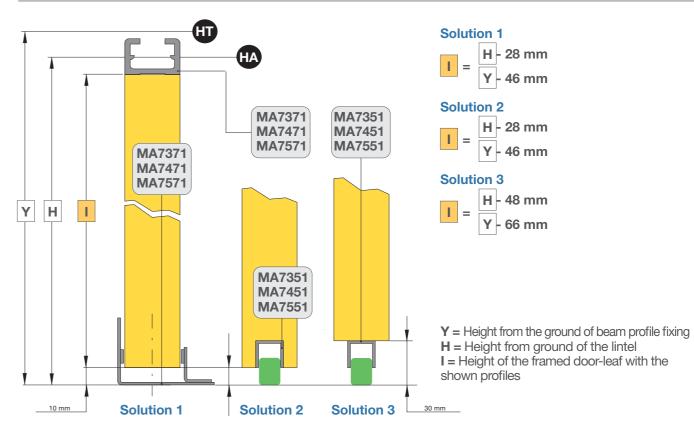
The Corsa and Rodeo operators are supplied to clients' specifications with a pre-perforated beam profile for fixing to the lintel or wall. Depending on the nature of the support on which the operator will be fixed, the operator comes with suitable fixing systems that use at least 2/3 of the holes available and, mandatory those on the ends and centre of the profile.

The holes are situated along two parallel lines with 250 mm spacing. Generally speaking, fixing on every other holes is sufficient.

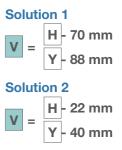




Framed leaves









Y = Height from the ground of beam profile fixing **H** = Height from ground of the lintel

V = Height of glass with shown profiles

Weight of door

 $2.5 \text{ Kg} \times \text{m}^2 \times 1 \text{ mm}$ thickness

Rodeo

Corsa

Corsa-Rodeo up to 75 and 125 Kg up to 165 and 280 lb

Covering and support aluminium profiles

up to 75 and 125 Kg

Doors Turnstiles

& Access Control

Catalogue

The complete range

-	-	-	-
-			11

-	001 PLCD1	Beam profile and slide guide. Length = 6.85m
	001 LC68	Natural anodized profile cover. Length = 6.85m
III T		
	001 LC68G	Unfinished profile cover. Length = 6.85m
7	001 LTC	Natural grey painted caps for LC00 profile cover.
	001 LTCG	Unfinished caps for LC01 profile cover.



001**LD68** Natural anodized extra-size profile cover. Length = 6.85m



001**LD68G** Unfinished extra-size profile cover. Length = 6.85m



001**LTD** Caps with hinges for LD00 and LD01 profile covers.



Special varnishing and oxidation treatments made to order

The varnishing and oxidation treatments can be applied to the following items: LC00 - LC01 - LTCG - LD01 - LD00 - MA7371 - MA7471 MA7571 -MA7351 - MA7451 - MA7551 - MA7370 MA7470 - MA7570 - MA7353 -MA7453 - MA7553 and for S20 - S40 profiles.

Please keep in mind that electrostatic powder varnish jobs provide a high level of colour continuity when the profiles are treated in one, single phase. Subsequent applications, even when maintaining the same colour code, could result in slight variations of hue.

Please contact us to discuss your requirements.

Universal alu-profile for door leaves Upper hooking profile for framed door leaves, with castor securing brackets and above-surface floor rails 001MA7371 Complete kit for two door leaves of up to 500 mm wide or one door leaf up to 1,000 mm wide. 001MA7471 Complete kit for two door leaves of up to 750 mm wide or one door leaf up to 1,500 mm wide. Complete kit for two door leaves of up to 1,000 mm wide 001**MA7571** or one door leaf up to 2.000 mm wide. Inner guiding profile for framed door leaves with flush floor rails 001MA7351 Complete kit for two door leaves of up to 500 mm wide or one door leaf up to 1,000 mm wide. 001**MA7451** Complete kit for two door leaves of up to 750 mm wide or one door leaf up to 1,500 mm wide. 001**MA7551** Complete kit for two door leaves of up to 1,000 mm wide or one door leaf up to 2,000 mm wide. Upper hooking profile for 10 mm thick tempered glass door leaves with castor securing brackets and above surface floor rails 001MA7370 Complete kit for two door leaves of up to 500 mm wide or one door leaf up to 1,000 mm wide. 001MA7470 Complete kit for two door leaves of up to 750 mm wide or one door leaf up to 1,500 mm wide. 001MA7570 Complete kit for two door leaves of up to 1,000 mm wide or one door leaf up to 2,000 mm wide. Lower guiding profile for 10 mm thick tempered glass door leaves with flush floor rails 001MA7353 Complete kit for two door leaves of up to 500 mm wide



The complete range

or one door leaf up to 1,000 mm wide. 001MA7453 Complete kit for two door leaves of up to 750 mm wide or one door leaf up to 1,500 mm wide. 001**MA7553** Complete kit for two door leaves of up to 1,000 mm wide or one door leaf up to 2,000 mm wide.

> Grip trim for 10 mm thick tempered glass door leaves (30 m / 98'5" ft packages)





Accessories

Accessories for automatic doors

Specific products for automatic entrances. A truly complete range for installation of automatic sliding and swing doors - in any application setting. CAME provides complete automatic door solutions: made to meet the needs of the user, the type of installation and operator chosen.



Infrared sensors. Although they are usually employed on sliding doors, they are also often applied to swing doors, opposite the door's swing arc. Various models with adjustable field mode are available, as well as ones with anti-masking function.* (see note)

Touch sensors. These are specifically designed for applications requiring a local command that can be activated by swiping the hand near, but not actually touching the switch. A typical example, for hygienic reasons, would be a hospital environment.



These are mostly used on sliding door operators where obstacle and person detection is a must. They are typically used in shopping centres, supermarkets and general warehousing

Volumetric sensors.

The complete range

Micro photocells



001**MF9011** Pair of 24V A.C.-D.C. flush mount infrared micro photocells with 7 m / 23' ft range and complete with shielded cable.

001**MF9111** Double pair of 24V A.C.-D.C. flush mount infrared micro photocells with 7 m / 23' ft range and complete with shielded cable

Active infrared radar

12 - 24V A.C.-D.C. radar with adjustable field. Max application height : 3 m / 9'10" ft. 001**MR8003** Detection is equal to: depth of field = 0.41 - 1.77 m. Depth of field 3.1 m / 10'2" ft.

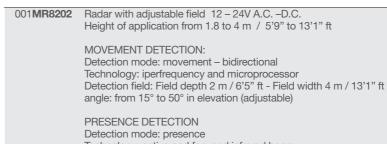
The complete range

red safety radar with anti-masking function

	Infrared safety radar with anti-masking function			
	001 MR8334	12 - 24V A.CD.C. safety radar with anti Max application height: $2.5 \text{ m} / 8'2$ " ft. 2 m / 6'5" ft Detection band diameter = 0 Max detection depth = 0.53 m Effective range is adjustable from 0.7 m		
8	001 MR8370	12 - 24V A.CD.C. safety radar with anti Max application height: $2.5 \text{ m} / 8'2$ " ft. 2 m / 6'5" ft Detection band diameter = 0 Max detection depth = 0.53 m Effective range is adjustable from 0.7 to		
	001 MR8390	24 - 700V A.CD.C. safety radar with an Max application height: $2.5 \text{ m} / 8'2$ " ft. 2 m Detection band diameter = 0.13 m. Max detection depth = 0.53 m Effective range is adjustable from 0.7 to		
	12 - 24V A.C.	- D.C. Microwave volumetric radars		
	001 MR8104	Bi-directional microwave volumetric radar. I Detection area: WIDE ANTENNA depth of f NARROW ANTENNA depth pf field = 2.5 m Adjustments through MRT001 remote cont		
	001 MR8105	Bi-directional microwave volumetric radar.		
	0011110100	Detection area: Depth of field = 2.5 m / 8'2" Adjustments through MRT001 remote cont		
	001 MR8106	Mono / bi-directional microwave volumetric		

001**MR8107** Manual adjustments

Bidirectional radar with movement and presence detection



Technology: active and focused infrared beam Detection field: Field depth 0.35 m / 1'1" ft - Field width 2 m / 6'5" ft angle: from -4° to +4° (adjustable)



Accessories

001MRWPC Protective cover for MR8104 - MR 8105 - MR8106 - MR8107 microwave volumetric radars.

001 MS9502 Brush activated volumetric sensor 12 - 24V A.C.-D.C. with microwave reflection. Detection field: from 1 to 50 cm







Remote controlled. The MR8104, MR8105

The advantages of original accessories

An automatic sliding or swing door is equipped with a range of accessories that optimise the automation system's functionality while at the same time allow it to respond to a variety of special installation situations with customised performance. CAME's complete range of automatic door accessories meets the requirements of every application: volumetric and infrared radar, also with anti-screening technology, touch sensors, infraredbeam micro-photocells and sensitive ground plates. A complete range of accessories made to meet even the most diverse needs.

The anti-masking sensors are capable of detecting still objects within the sensor's activation field.

and MR8106 can be set at a distance thanks to the infrared remote control which enables you to manage their sensitivity parameters and field of activation (optional).



* Length of device

i-masking function. L = 340 mm*.

0.13 m.

to 2.5 m.

i-masking function. L = 700 mm*.

0.13 m.

2.5 m.

ti-masking function. L = 900 mm*.

2.5 m.

Max application height: 4 m / 13'1" ft. field = 2 m / 6'5" ft and width of field 4 m / 13'1" ft. n / 8'2" ft and width of field 2 m / 6'5" ft. trol.

Max application height: 5 m / 16'4" ft. " ft and width of field 4 m / 13'1" ft. trol.

c radar. Max application height: 4 m / 13'1" ft. Detection area: WIDE ANTENNA depth of field = $2 \text{ m} / 6^{\circ}5^{\circ}$ ft and width of field $4 \text{ m} / 13^{\circ}1^{\circ}$ ft. NARROW ANTENNA depth pf field = 2.5 m / 8'2" ft and width of field 2 m / 6'5" ft. Adjustments through MRT001 remote control.

Bi-directional microwave volumetric radar. Max application height: 4 m / 13'1" ft. Detection area: WIDE ANTENNA depth of field = $2 \text{ m} / 6^{2}$ ft and width of field $4 \text{ m} / 13^{11}$ ft. NARROW ANTENNA depth of field = 2.5 m / 8'2" ft and width of field 2 m / 6'5" ft.

001MRT001 Remote control for MR8104 - MR 8105 - MR8106 microwave volumetric radars.





Panic-release systems

Emergency panic release system for sliding doors.

In high-traffic settings, or anywhere emergency exits are required by law, automatic sliding doors must be fitted with an emergency release device. This lets you use the automatic access way as a regular emergency exit.



Meant for the S40 series. All the details are planned to perfectly integrate with the S40 series framed doors. However, you can use the kit with many other commercial-type profiles that have a minimum section of 40 mm.

Floor guides. A special floor-guide profile, which allows the moving door-leaf to rotate, is necessary when installing the panic-release system.



Commercial Security. The special MAL229 profile prevents doors fitted with the panic-release system from being opened from the outside. This helps protects the premises from unauthorised entry during non-business hours.



Emergency exits

The European standards for emergency exits require a minimum passage width of 1200 mm and for the door to swing open when pushed by a person.



Security and peace of mind

A full supply of accessories to use with the S40 series of framed profiles and with many other available profiles. The set of components is installed on either the doors or the operator. Emergency exit release systems can be applied to all of the door-leaves, moving or not. This is normally referred to as the integral panic-release solution, and is the most widely used because it best guarantees evacuation of the building in emergency situations. The panic-release system makes it so that the entire door width can be opened - which is also useful for loading/unloading situations and even on hot sunny days!

Limits to use		
Model	Max width of leaf/leaves (mm)	Mobile/fixed leaves
MI6010	1100	YES / NO
MI6110	1500	YES / NO
MI6020	1100 + 1100	YES / NO
MI6120	1500 + 1500	YES / NO
MI6030	1100	YES / YES
MI6130	1500	YES / YES
MI6040	1100 + 1100	YES / YES
MI6140	1500 + 1500	YES / YES
Width of leaf (mm)	Max weight of leaf (Kg/lb)	Max weight of leaf (Kg/lb)
500	75 / 165	120 / 265
600	75 / 165	90 / 198
700	75 / 165	80 / 176
800	60 / 132	70 / 154
900	50 / 110	60 / 132
1000	45 / 99	50 / 110
1100	40 / 88	40 / 88

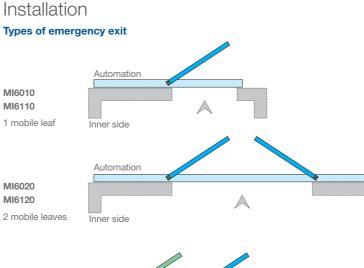
NOTES: a jockey wheel must be inserted with door-leaves wider than 1100 mm.

The complete range

Complete emergency breakaway systems for sliding door leaves with S40 profiles

001 MI6010	Complete system for one mobile door leaf. Max width: 1,100 mm.
001 MI6110	Complete system for one mobile door leaf. Max width: 1,500 mm.
001 MI6020	Complete system for two mobile door leaves. Max width: 1,100 + 1,100 mm.
001 MI6120	Complete system for two mobile door leaves. Max width: 1,500 + 1,500 mm.
001 MI6030	Complete system for one mobile door leaf and one fixed door leaf. Max width: 1,100 mm.
001 MI6130	Complete system for one mobile door leaf and one fixed door leaf. Max width: 1,500 mm.
001 MI6040	Complete system for two mobile door leaves and two fixed door leaves. Max width: 1,100 + 1,100 mm.
001 MI6140	Complete system for two mobile door leaves and two fixed door leaves. Max width: 1,500 + 1,500 mm.





MI6130 1 mobile leaf 1 fixed leaf

MI6030

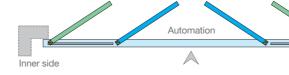
MI6040

MI6140

2 mobile leaves

2 fixed leaves







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We suggest using Mi panic-release systems on the Rodeo series operators as they are best suited for the size and type of castors used on the door-leaves. In any case, before installing, check the following:

- The operator must be installed in a position that allows the doors to be opened in panic-release mode.
- On single door leaves with fixed door leaves, or doors not fitted with panicrelease devices, make sure the operator is mounted so that the door is free to swing open.
- Minimum widths for emergency exits must be adhered to. Please refer to Part B (emergency exits) and Part M (access to buildings) of the UK Building regulations.
- When installing on other commercial profiles you must take into account the proper minimum dimensions for mounting the devices and proper movement of the door-leaves.



S20 Profiles for doors

Elegance and design.

CAME's S20 line of profiles, for tempered glass doors, is specifically designed to create a very bright and attractive door.

Also, CAME S20 is made for quick-and-easy assembly of the doors - no special alterations are required.



Complete with all the accessories. Every detail in the S20 series is designed for quick-and-easy assembly of the aluminium profiles and seamless installation of the door.





S20 series advantages

Sturdy, elegant and easy to assemble; these are just some of the characteristics you find in the S20 tempered glass door profiles. They are suitable for glass sheets of between 4 and 15 mm thickness, with standard 10 mm wide glass mounting kit.

They also work in a host of different door application contexts – whether these be at the front or back-of-the-house. Moreover, the S20 series give you a door that fits perfectly with the Corsa and Rodeo operators; in terms of aesthetics and design.

Weight	
Model	Weight (gr / m)
001MAL199	0.366
001MAL200	0.509
001MAL201	0.186
001MAL202	0.2
001MAL203	1.802
001MAL204	0.813
001MAM612	1.325
001MAL790	0.478
009P3	0.028
009P4	0.05
009P5	0.068
009P6	0.078
009P7	0.128

The S20 series is supplied with a silver, anodised finish, but is also available with a rough finish or on-request varnishing/oxidation. Please contact us to discuss your requirements.

The complete range

Aluminium profiles for 4 to 15 mm thick glass doors leaves (standard length: 5 m / 16'4" ft)

	001 MAL199	Vertical post for fixed and mobile door I
	001 MAL200	Wall-mounting frame for fixed door leav
	001 MAL203	Upper hooking profile.
5	001 MAL204	Vertical photocell containment and door
	001 MAM612	Lower guiding profile.
	001 MAL790	Reduced photocell containment profile.
-	Plastic grip p	rofile (Packages of 30 m / 98'5" ft).
	001 MAL201	Lateral grip trim for fixed and mobile do
	001 MAL202	Central grip trim for mobile door leaves.
	001 MAL791	Finishing profile for MAL790 (10 pieces
	Assembling a	ccessories
	001 MAF001	Complete assembling kit for one fixed of
	001 MAM001	Complete assembling kit for one mobile
	Rubber grip t	rim. (Packages of 30 m / 98'5" ft).
///	009 P3	3 mm grip trim for glass.
	009 P4	4 mm grip trim for glass.
	009 P5	5 mm grip trim for glass.
	009 P6	6 mm grip trim for glass.
	009 P7	7 mm grip trim for glass.



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or leaf endpoint profile for one door leaf.

oor leaves.

s of 3 m / 9'10" ft each).

door leaf.

e door leaf with slide rails.

S40 Profiles for doors

Sturdiness and rigidity.

The S40 line of framed-door profiles, is specifically designed to provide extremely sturdy doors for those heavy-duty situations found in large commercial facilities.

They are designed to fit together with the panicproof breakaway system, are easy to assemble and provide multiple combination possibilities.



Complete with all the accessories. You will find that, every detail in the S40 series is designed for quick-and-easy assembly of the aluminium profiles and perfect installation of the door.





S40 series advantages

The S40 range is designed to provide door solutions, especially for those high-traffic environments.

Typical settings would be shopping malls, public buildings and hospital entrances where daily traffic volumes are high. The profile sections are, therefore generously thick, while assembly requires brackets and mounting accessories which are supplied standard with the kit.

It is fitted to combine with the MI panic-proof breakaway systems, the S40 series is the solution which provides maximum performance when it comes to toughness, reliability and durability.

Weight	
Model	Weight (gr/m)
001MAL225	686
001MAL226	1030
001MAL227	841
001MAL228	472
001MAL229	138
001MAL230	242
001MAL231	121
001MAL223	104
001MAL224	468
009P3	28
009P4	5
009P5	68
009P6	78
009P7	128

The S40 series is supplied with a silver, anodised finish, but is also available with a rough finish or on-request varnishing/oxidation. Please contact us to discuss your requirements.

The complete range

Aluminium profiles for 4 to 15 mm thick crystal doors leaves (standard length: 5 m / 16'4" ft)

001 MAM613	Upper hooking profile for framed door le
001 MAM699	Lower guiding profile for framed door lea
001 MAL225	Wall-mounting frame for fixed door leave
001 MAL226	Vertical post and upper hooking profile for
001 MAL227	Lower slide guiding profile.
001 MAL228	Flush floor profile for aligning and blocking
001 MAL229	Door leaf blocking profile for emergency
001 MAL230	Vertical photocell containment and door
001 MAL231	Glass holding profile for MAL226 and M/
Assembling a	ccessories
0041445000	Developed to a staff for all developed to first the former

001 MAF002	Bracket to pair fixed door leaf to frame.
001 MAF003	Upper and lower anchoring angle brack
001 MAM002	Finishing for mobile door leaves with en
001 MAM003	Package of accessories to hook the mo
001 MAMF01	Package of nuts and bolts for one door
001 MAMF02	Adjusting angle bracket for one door lea
001 MAMF03	Angle bracket for frame.

Rubber grip trim (Packages of 30 m / 98'5" ft).

	009 P3	3 mm grip trim for glass.
	009 P4	4 mm grip trim for glass.
	009 P5	5 mm grip trim for glass.
	009 P6	6 mm grip trim for glass.
	009 P7	7 mm grip trim for glass.
-		

Plastic grip trim (Packages of 30 m / 98'5" ft).

001MAL223 Multi-use trim. 10 pieces of 3 m / 9'10" ft.

001**MAL224** Central grip trim for mobile door leaves. 10 pieces of 3 m / 9'10"



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king fixed door leaves.

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1AL227.

kets for fixed door leaves

mergency release system.

obile door leaf to the slide guide.

leaf assembly.

Terms and Conditions of Sale



1. INTERPRETATION

- "Buver' means the person firm or company who buys or agrees to buy the Goods from the Seller: "Buyer's Premises" means the Buyer's premises detailed on the quotation given by the Seller to the Buyer in respect of the Goods: means the date specified by the Seller when the Goods are to be delivered: "Delivery Date" "Conditions" means these terms and conditions of sale: means the contract for the sale by the Seller and purchase by the Buyer of Goods; "Contract" "Goods" means all goods supplied by the Seller to the Buyer pursuant to the Contract; means the price of the Goods plus VAT plus Additional Charges as referred to in "Price" Conditions 6.3 and 4.8:
- "Seller" means CAME United Kingdom, a trading division of UMC GROUP LTD. whose registered office is at Unit 3, Orchard Park Industrial Estate, Town Street, Sandiacre, Nottingham, NG10 5BP;
- "Surcharge" means the sum of £10.00 (ten pounds);
- "Wasted Time Rate" means the charge for wasted time at the Seller's standard rate for wasted time of £1 (one pound) per minute up to and including 30 (thirty) minutes and thereafter at a charge of £2 (two pounds) per minute, or such other charge as notified to the Buyer from time to time;
- "writing" includes facsimile transmission but excludes writing on the screen of a visual display unit or other similar device.
- 2. BASIS OF SALE
 - 2.1 These Conditions shall apply to the sale by the Seller of all Goods purchased by the Buyer and these Conditions shall govern the contract to the exclusion of any other terms and conditions introduced or submitted by the Buyer.
- 2.2 No variation of these Conditions may be given by any of the Seller's employees unless confirmed in writing by an authorised director of the Seller and no collateral or supplemental contract may be made or construed unless confirmed in writing by an authorised director of the Seller on the Seller's official stationery. Any tenders or quotations submitted to the Buyer shall remain valid for the period stated
- therein, but if no period is specified such tenders and quotations shall be valid for [30] days from the date thereof. All tenders and quotations shall be subject to these Conditions. Any tenders or quotations will not constitute an offer and the Contract shall be made when the Seller acknowledges the order placed by the Buyer in writing and not before. Where the Seller acknowledges or confirms the details of the Contract in writing, the Buyer shall be under a duty to bring any discrepancies to the Seller's notice immediately, and if the Buyer fails to do so, the Buyer shall, if the Seller so elects, be bound by the details contained mentioned or referred to in the written confirmation of the Contract. Any typographical, clerical or other error or omission in any sales literature, quotation, price list, acceptance of offer, invoice or other documentation or information issued by the Seller shall be subject to correction without any liability on the part of the Seller. The Seller's employees or agents are not authorised to make any representations concerning the Goods unless confirmed by an authorised director of the Seller in writing. In entering
- into the Contract the Buyer acknowledges that it does not rely on any such representations which are not so confirmed, save that nothing in these Conditions shall exclude the Sellers liability for fraudulent misrepresentation.
- No order which has been accepted by the Seller may be cancelled by the Buyer except with the agreement in writing of the Seller and on terms that the Buyer shall indemnify the Seller in full against all loss (including loss of profit), costs (including the cost of all labour and materials used), damages, charges and expenses incurred by the Seller as a result of cancellation.
- 2.9 The Seller reserves the right to make any changes to the Goods:-
 - 2.9.1 which are required so that the Goods conform with any applicable statutory or EU requirement; or
 - 2.9.2 where such changes to the Goods do not materially affect the quality or performance of the Goods.
- 3. SAFETY

Any Goods supplied by the Seller must be handled correctly. The Buyer must ensure that all appropriate safety precautions are taken and that its staff are aware of and comply with all storage and usage instructions.

- 4. DELIVERY
 - 4.1 Unless otherwise agreed by the Seller in writing, delivery shall take place at the Buyer's Premises. The Seller shall reasonably endeavour to deliver the Goods to the Buyer's Premises or such other address as may be agreed between the parties in writing on the date indicated by the Seller or the date agreed between the parties, but the time of delivery or performance shall not be of the essence and if despite those endeavours, the Seller is unable for any reason to fulfil any delivery of the Goods on the date so indicated, the Seller shall not be deemed to be in breach of contract or have any liability to the Buyer. The Seller shall notify the Buyer when the Goods are ready for delivery. In the event that the Buyer shall not be able to take delivery of the Goods within [10] working days from the date of receipt of such notification, the Seller shall be entitled, but not obliged, to arrange storage of the Goods until actual delivery and charge the Buyer for the reasonable costs (including insurance) of storage.
 - The Buyer shall provide the Seller with clear delivery instructions in the event that the Seller agrees to deliver the Goods to any point other than the Seller's premises. Upon delivery the Buyer will sign a delivery note which will be conclusive evidence that delivery of the Goods has been made.

- 4.5 The Seller shall have the right to deliver any Goods ordered in instalments.
- 4.6 Failure by the Seller to deliver any one or more of the instalments in accordance with these Conditions or any claim by the Buyer in respect of the Goods delivered in any one or more instalments shall not entitle the Buyer either to treat the Contract as a whole as repudiated or to reject or refuse to take delivery of any of the Goods delivered in any other instalment.
- 4.7 If the Seller fails to deliver the Goods (or any instalment thereof) for any reason other than any cause beyond the Seller's reasonable control or the Buyer's fault, and the Seller is accordingly liable to the Buyer, the Seller's liability shall be limited to the excess (if any) of the cost to the Buyer (in the cheapest available market) of similar goods to replace those not delivered over the Price of the Goods.
- 4.8 The Buyer shall be ready to accept delivery on the agreed Delivery Date and unless the Seller agrees otherwise, the Seller shall unload the Goods. The Buyer shall ensure that at least one representative is available to assist the Seller during the unloading of the Goods and the Buyer shall be charged the Wasted Time Rate and any other expenses incurred by the Seller ("Additional Charges") for:-
- 4.8.1 wasted time for any delay;
- 4.8.2 each repeat delivery where the Seller or Seller's carrier leaves the delivery point and subsequently returns to the delivery point with the Goods as a result of the Buyer's inability or unwillingness to accept delivery and/or delay in unloading the Goods and/or the Buyer's failure to provide a representative to assist the Seller in the unloading of the Goods.
- The Buyer shall notify any loss of or damage to the Goods in writing to the Seller and to the carriers (if applicable) within 3 days of the Delivery Date in respect of any damage of the Goods and within 10 days of the Delivery Date in respect of any loss of the Goods, which will enable the Seller to comply with the carrier's conditions affecting such loss or damage. Where Goods are delivered by carrier, unless the Goods are checked on receipt, the carrier's documentation shall be endorsed "unexamined".
- 4.10 If the Buyer fails to take delivery of the Goods (otherwise than by reason of the Seller's fault) or fails to give the Seller adequate instructions for delivery then, without prejudice to any other right or remedy available to the Seller, the Seller may:-
- 4.10.1 store the Goods until actual delivery and charge the Buyer for the reasonable costs (including insurance) of storage and the Goods shall remain in all aspects at the Buyer's risk; or
- 4.10.2 sell the Goods at the best price readily obtainable and (after deducting all reasonable storage and selling expenses) charge the Buyer for any shortfall below the Price under the contract;
 - be entitled to full payment in respect of the Goods refused; without prejudice to any right on the Seller's part to damages or payment in respect thereof, the Seller shall be entitled to cancel any further consignments under the contract
- 5 RISK
 - Risk of damage to or loss of the Goods shall pass to the Buyer at the time of delivery, or if the Buyer wrongfully fails to take delivery, the time when the Seller has tendered delivery of the Goods.
- 6. PRICE
 - 6.1 The Price for the Goods shall be the price specified by the Seller in the quotation and unless otherwise stated prices are quoted:-
 - 6.1.1 exclusive of Value Added Tax (which the Buyer shall be additionally liable to pay to the Seller); and
 - 6.1.2 on an Ex-Works basis.
 - 6.2 Where the Seller is required to deliver the Goods on any basis other than ExWorksunless any specific fee or charge is agreed by the Buyer with the Seller, the Seller reserves the right to charge a reasonable fee to the Buyer for the cost of any carriage and/or other expenses incurred by the Seller in relation to the delivery of the Goods ("Additional Charges").
 - 6.3 The Buyer shall bear all additional costs incurred by the Seller on account of any materials or designs supplied by the Buyer requiring any additional process not taken into account in determining the Price.
- 7. PAYMENT TERMS
 - 7.1 The payment terms in this Condition apply save to the extent that they are inconsistent with any specific payment terms agreed in writing between the Seller and the Buyer.
 - 7.2 The Buyer shall pay the Price of the Goods and any Additional Charges in accordance with the payment terms set out on the quotation.
 - 7.3 The Seller shall be entitled to invoice the Buyer for the Price of the Goods on or at any time before desnatch of the Goods or any instalment thereof.
 - 7.4 The Buyer shall make payment for the Price of the Goods in sterling, unless agreed otherwise in writing. Any payment received by the Seller in any other currency will not be deemed to be payment for the Goods in question.
 - 7.5 Where the Buyer makes payment for the Goods by cheque the Seller reserves the right to charge a Surcharge in the event that any cheque rendered in payment of the Sellers invoice is initially refused.
 - 7.6 Unless the Seller agrees that Condition 7.7 shall apply the Buyer shall pay each invoice from the Seller on demand.
 - 7.7 Where the Seller agrees that this Condition 7.7 shall apply the Buyer shall pay each invoice from the Seller within 30 days of the date the Seller's invoice is issued.

- 7.8 In the event that the Buyer fails to pay any invoice from the Seller by the due date, all invoices issued to the Buyer by the Seller in respect of any goods sold or supplied pursuant to any other contract shall immediately fall due for payment and any credit offered or extended by the Seller to the Buyer in respect of the same shall be cancelled forthwith.
- 7.9 The Seller's invoices shall be payable in accordance with these Conditions, notwithstanding that delivery may not have taken place and the property in the Goods may not have passed to the Buyer. The time of payment of the Seller's invoices shall be of the essence of the Contract.
- 7.10 If the Buyer fails to make payment on the due date then, without prejudice to any other right or remedy available to the Seller: -
 - 7.10.1 the Seller shall be entitled to charge the Buyer interest (both before and after any judgement) on the amount unpaid, at the rate of 3% per annum above the Seller's bankers base rate current from time to time; and
- 7.10.2 the Seller shall be entitled to withhold delivery of any Goods agreed to be sold by the Seller to the Buyer or any instalment thereof (being the subject of the contract or any other contract) until the overdue payment is made in full.
- 8. TITLE
 - 8.1 Notwithstanding delivery and the passing of risk in the Goods, or any other provision of these Conditions, title in the Goods shall not pass to the Buyer until the Seller has received in cash or cleared funds payment in full of the Price of the Goods and all other goods agreed to be sold by the Seller to the Buyer for which payment is then due.
 - 8.2 Until such time as title in the Goods passes to the Buyer, the Buyer shall hold the Goods as the Seller's fiduciary agent and bailee, and shall keep the Goods separate from those of the Buyer and third parties and properly stored, protected and insured and identified as the Seller's property, but shall be entitled to resell or use the Goods in the ordinary course of its business.
 - 8.3 Until such time as the title in the Goods passes to the Buyer, the Seller shall be entitled at any time to require the Buyer to deliver up the Goods to the Seller and if the Buyer fails to do so forthwith, to enter upon any premises of the Buyer or said party where the Goods are stored and mark identify and repossess the Goods.
 - 8.4 The Buyer shall not be entitled to pledge or in any way charge by way of security for any indebtedness any of the Goods which remain the property of the Seller, but if the Buyer does so all monies owing by the Buyer to the Seller shall (without prejudice to any other right or remedy of the Seller) forthwith become due and payable.
- . WARRANTIES AND LIABILITY
- 9.1 Subject to the Conditions set out below and clause 10.2 subject to the proviso that the Seller shall be under no liability arising from failure to follow the Seller's or the manufacturer's instructions (whether oral or in writing), inappropriate storage, improper use, inadequate maintenance or misuse of the Goods, the Seller warrants that:-9.1.1 the Goods will correspond with the Seller's specification for them on delivery;
- 9.1.2 save as provided in and subject to the provisions in sub-clause 9.1.3 below (unless otherwise agreed between the parties) the Goods will be free from material defects for 3 years from the Delivery Date; and
- 9.1.3 this warranty does not cover wear items that are listed in the Operations Guide relating to the Goods.
- 9.2 The Buyer shall be under a duty to inspect the Goods in accordance with the provision of clause 4.9. In the event of any patent defect the Buyer shall inform the Seller of such defect immediately on discovery but in any event within [14 days] of delivery. In the event of a latent defect being discovered, the Buyer shall inform the Seller of such defect immediately on discovery of the same. Any claim for breach of warranty by the Buyer shall not be accepted by the Seller unless the Buyer notifies the Seller in writing of the nature of the claim within the time limit specified within this Condition.
- 9.3 The Seller shall not be liable for any defect in the specification or performance of the Goods if such defect is due to inaccurate or insufficient information instructions or drawings being supplied to the Seller by the Buyer (or agent/employee/representative thereof) at the request of the Seller or otherwise.
- 9.4 Any warranty given in these Conditions shall not apply to any modification and/or repair carried out to the Goods without the Seller's prior approval in writing.
- 9.5 Subject as expressly provided in these Conditions, all warranties conditions or other terms implied by statute or common law are excluded to the fullest extent permitted by law.
- 9.6 The Buyer shall not be entitled to reject the Goods where the alleged defect or breach of contract is so slight that it would be unreasonable for the Buyer to reject the Goods
- 9.7 Where any valid claim in respect of the Goods is made by the Buyer the Seller shall be entitled to replace or repair the Goods (or the part in question), at the Seller's sole discretion, refund to the Buyer the price of the relevant Goods (or a proportionate part of the price for the relevant Goods), and the Seller shall have no further liability to the Buyer. The Buyer acknowledges that any such valid claim is to be assessed and resolved in accordance with this Condition by the Seller working in conjunction with Came Cancelli Automatici Spa (the manufacturer).
- 9.8 The Seller's liability in connection with the sale of the Goods and the provision of the Services to the Buyer shall be as follows:-
- 9.8.1 in respect of death or personal injury, the Seller's liability shall be unlimited;
- 9.8.2 in respect of physical damage to or loss of the Buyer's tangible property to the extent that it results from the wilful default or negligence of the Seller, its employees, agents or contractors the Seller's liability shall be limited to an amount of £5 million in respect of each incident or series of connected incidents;





- 9.8.3 in respect of all other direct loss (whether in contract, tort, or otherwise) the Seller's liability shall not exceed £5 million; and
- 9.8.4 in respect of any loss goodwill or for any type of consequential, special or indirect loss or damage the Seller's liability shall be nil.
- 9.9 The Seller shall not be liable to the Buyer nor be deemed to be in breach of contract by reason of any delay in performing, or any failure to perform, any of the Seller's obligations in relation to the contract if the delay or failure was due to any cause beyond the Seller's reasonable control. The following shall (without limitation), be regarded as cause beyond the Seller's reasonable control:-
 - 9.9.1 act of God, explosion, flood, tempest, fire or accident;
 - 9.9.2 war or threat of war, sabotage, insurrection, terrorism, civil disturbance or requisition;
- 9.9.3 acts, restrictions, regulations, bye-laws, prohibitions or measures of any kind on the part of any governmental, parliamentary or local authority;
- 9.9.4 import or export regulations or embargoes;
- 9.9.5 strikes, lock-outs or other industrial actions or trade disputes (whether involving employees of the Seller or of a third party);
- 9.9.6 difficulties in obtaining raw materials, labour, fuel, parts or machinery;
- 9.9.7 power failure or breakdown in machinery.
- 10. SPECIFICATIONS AND INSTRUCTIONS
 - 10.1 Unless the Seller agrees otherwise, only the specifications referred to in the quotation shall form part of the Contract.
 - 10.2 The Seller reserves the right subject to giving prior written notice to the Buyer to modify the said specifications where the Goods cannot in the opinion of the Seller be manufactured according to the said specifications and the Buyer agrees to accept the Goods as manufactured according to the specifications so modified in satisfaction of the Sellers obligations as to manufacture of the Goods under the Contract.
- 11. INTELLECTUAL PROPERTY
 - 11.1 All specifications, drawings, designs and technical description, and all Information and "know-how" whatsoever supplied by the Seller to the Buyer is as between the Seller and the Buyer the Seller's copyright and property and shall at all times be treated by the Buyer as confidential and shall not without the prior written consent of the Seller be used by the Buyer except for the purposes of the Contract.
 - 11.2 The Buyer will indemnify the Seller against all actions claims demands costs charges, penalties, royalties and expenses arising directly or indirectly or incurred by reason of any infringement or alleged infringement of or any right attributable to any letters patent, registered design trade mark, trade name, copyright or proprietary right arising from the use of any instructions, specifications or designs whether express or implied supplied by the Buyer to the Seller.
- 12. INSOLVENCY OF BUYER
 - 12.1 This Condition applies if: -
 - 12.1.1 the Buyer makes any voluntary arrangement with its creditors or (being an individual or firm) becomes bankrupt or (being a company) becomes subject to an administration order or goes into liquidation (otherwise than for the purposes of amalgamation or reconstruction); or
 - 12.1.2 an encumbrancer takes possession or a receiver is appointed, of any of the property or assets of the Buyer; or
 - 12.1.3 the Buyer ceases, or threatens to cease, to carry on business; or
 - 12.1.4 the Seller reasonably apprehends that any of the events mentioned above is about to occur in relation to the Buyer and notifies the Buyer accordingly.
 - 12.2 If this Condition applies then, without prejudice to any other right or remedy available to the Seller, the Seller shall be entitled to cancel the contract and suspend any further deliveries under the contract without any liability to the Buyer, and if the Goods have been delivered but not paid for, all of the Seller's outstanding invoices to the Buyer become immediately due and payable notwithstanding any previous agreement or arrangement to the contrary.
- 13. GENERAL
 - 13.1 Any notice required or permitted to be given by either party to the other under these Conditions shall be in writing addressed to that other party at his registered office or principal place of business or such other address as may at the relevant time have been notified pursuant to this provision to the party giving the notice.
 - 13.2 If any provision of these Conditions is held by any competent authority to be invalid or unenforceable in whole or in part the validity of the other provisions of these Conditions shall remain in full force and effect.
 - 13.3 No waiver by the Seller of any breach of the contract by the Buyer shall be considered as a waiver of any subsequent breach of the same or any other provision.
 - 13.4 A person who is not a party to the contract has no rights under the Contracts (Rights of Third Parties) Act 1999 to enforce any term of these Conditions but this does not affect any right or remedy of a third party which exists or is available apart from that Act).
 - 13.5 These Conditions constitute the entire contract between the parties to the extent that the subject matter is dealt with herein and may only be varied or modified in writing under the hands of the parties or their authorised representatives.
 - 13.6 The contract shall be governed by the laws of England, and the Buyer agrees to submit to the non-exclusive jurisdiction of the English courts.

Made in Italy



For its quality processes management Came Cancelli Automatici is ISO 9001:2000 certified, and for its environmental management it is ISO 14001 certified. Came designs and manufactures entirely in Italy.



Came United Kingdom Nottingham - UK

Came Cancelli Automatici Dosson di Casier - Treviso - Italy

Came Service Dosson di Casier - Treviso - Italy

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Came France Nanterre Cedex - Paris - France

Came Automatismes Marseille - France

Came Automatismos Madrid - Spain

Came Automatismos Catalunya Sant Vicenç Dels Horts – Barcelona - Spain

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CAME UK UMC GROUP LTD Unit 3, Orchard Park Industrial Estate Town Street, Sandiacre, Nottingham, NG10 5BP www.cameuk.com enquires@cameuk.com Tel - 0115 9210430 Fax - 0115 9210431