

# Came 2009 <br> General Catalogue 



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/commercia assistance network at the service of local operators.


CAME

New Products 2009


(EN)


## 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 230 V 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 600 kg
For sliding gates weighing up to 600 kg , 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

## 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 7 m . An evolution of mechanical and electrical improvements ensures the Axo meets every power and reliability expectation.


## 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.

## Parking System ${ }^{\text {mase } 12}$

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.

## DF20N

page 168

Sensitive Safety Edges - now available in black
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 equirements of the installation

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## 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, wireles digital keypads, etc.

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

Definitions of the solutions
A
Button operated, no self-holding command.
When conditions allow visibility on the system, safety is guaranteed by the operator.

O 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.
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.

B
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.

D
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.


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

Example: automation placed on a Eublic 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 genera public.
Example: automation placed in a public parking lot or in a shopping nall and is freely used.


1. No self-holding command B
2. Visible impulses from a fixed station
3. Out-of-sight or
4. Automatic command



A world of safe automation

Complete system kits
CAME



## FrogAE-S kit © <br> Complete kit for a single swing gate of up to

 $3.5 \mathrm{~m} / 11$ '5" leaf, 230 V A.C. motor.

## Frog-S kit

Complete kit for a single swing gate of up to

| 001FROG-A $230 v$ Motor | 1 |
| :--- | :--- |
| 001FROG-BN Foundation Case | 1 |
| 001A4364 Release Mechanism | 1 |
| 001DIR-10 Pair Safety Photocells | 1 |

Swing Gates $\begin{array}{ll}\text { Frog Technical Information page } 36 \\ \text { Frog Complete }\end{array}$ Frog Complete Range page 37 Control Panels pages 58 to 61
$3.5 \mathrm{~m} / 11^{\prime} 5$ " leaf, 230 V A.C. motor.

Qty
new

002ZA3N Control Panel
001TOP-432NA Radio Remote ( $433,92 \mathrm{MHz}$ ) 001TOP-A433N Antenna 001AF43S Frequency card. ( $433,92 \mathrm{MHz}$ )


Qty
1



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



## Frog-P24 kit

Complete kit for a pair of swing gates of up to $3.5 \mathrm{~m} / 11$ '5" each leaf, $24 V$ D.C. motors.


001DIR-10 Pair Safety Photocells
 001A4364 Release Mechanism 001DIR-10 Pair Safety Photocells

## Frog-S24 kit

Complete kit for a single swing gate of up to 3.5 m / 11'5" each leaf, 24V D.C. motor.

Qty


Accessories hoain items listed in the kits on these pages, namely control board, remote controls or satery tem code is temporarily out of stock.

Access control pages
Safety pages $166-175$ Radio control pages 176-189


## Fast-P24 kit

Complete kit for a pair of swing gates of up to
2.3 m / 7'6" each leaf, 24V D.C. motors.

## EN

Oty
 001AF43S Frequency card. (433,92MHz) 001 DIR10 Pair Safety Photocells 001 KIARO24N Flashing Light


001F7024N 24v Motor
001AF43S Frequency card. (433,92MHz) 001 DIR10 Pair Safety Photocells 001 KIARO24N Flashing Light


## Fast-S24 kit

Complete kit for a single swing gate of up to 2.3 m / 7'6" leaf, 24V D.C. motor.

## Fast-P kit

Complete kit for a pair of swing gates of up to 2.3 m / 7'6" per leaf, 230V A.C. motors.

Qty

| 001 F7000 230 v Motor with control panel | 1 |
| :--- | :--- |
| 001 AF43S Frequency card. (433,92MHz) | 1 |
| 001DIR10 Pair Safety Photocells | 1 |
| 001 KIARON Flashing Light | 1 |



## Krono-P3 kit

Complete kit for a pair of swing gates of up to $3.0 \mathrm{~m} / 9^{\prime} 10^{\prime \prime}$ each leaf, $230 V$ A.C. motors.

Oty
 Qty


EN


001 KR510S 230v Motor, left handed 001 AF43S Frequency card. ( $433,92 \mathrm{MHz}$ ) 001DIR-10 Pair Safety Photocells 001TOP-A433N Antenna


001 F7001 230v Motor 001TOP-432NA Radio Remote ( $433,92 \mathrm{MHz}$ ) 001TOP-A433N Antenna


Qty


## Fast-S kit

Complete kit for a single swing gate of up to 2.3 m / 7'6" leaf, 230V A.C. motor.

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


## Qty <br> Qly

001TOP-432NA Radio Remote (433,92MHz)
001TOP-A433N Antenna
001KIARON Flashing Light


Qty Radio control $-2+2+2+2$


Amico-S24 kit
Complete kit for a single swing gate of up to 1.8 m / 6 ft leaf, 24V D.C. motor.




Ferni-P24 kit
Complete kit for a pair of swing gates of up to 4.0 m / 13 ft each leaf, 24V D.C. motors.


001DIR-10 Pair Safety Photocells
-
ay 2 2a -
002ZL19N Control Panel

## Ferni-S24 kit

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

$\frac{\text { Qty }}{1} 24 \mathrm{~V}$ EN

|  | Qty |  |
| :---: | :---: | :---: |
| 002ZL19N Control Panel | 1 | 40 - |
| 001TOP-432NA Radio Remote (433,92MHz) | 2 |  |
| 001TOP-A433N Antenna | 1 | ditiona exta |

## Amico-P230 kit

Complete kit for a pair of swing gates of up to $1.8 \mathrm{~m} / 6 \mathrm{ft}$ each leaf, 230V A.C. motors.

Qty


001A18230 230v Motor
001AF43S Frequency card. (433,92MHz) 001DIR-10 Pair Safety Photocells

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


## Ferni-P kit

Complete kit for a pair of swing gates of up to $4.0 \mathrm{~m} / 13 \mathrm{ft}$ each leaf, 230V A.C. motors
oty
$\qquad$

Qty
001 F1000 230v Motor 001AF43S Frequency card. (433,92MHz) 001DIR-10 Pair Safety Photocells2

002ZA3N Control Panel 001TOP-A433N Antenna


Qty



Amico-S230 kit
Complete kit for a single swing gate of up to 1.8 m / 6 ft leaf, 230V A.C. motor.


## Ferni-S kit

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

$$
\begin{aligned}
& \text { 001F1000 } 230 \text { V Motor } \\
& \text { 001AF43S Frequency card. (433,92MHz) } \\
& \text { 001DIR-10 Pair Safety Photocells }
\end{aligned}
$$

Qty
002ZA3N Control Panel
001TOP-432NA Radio Remote ( $433,92 \mathrm{MHz}$ ) 001TOP-A433N Antenna

$$
\text { Wurery'Pnotocells } 1
$$

##  Qty

$\square$

## Ati-P kit

Complete kit for a pair of swing gates of up to 5.0 m / 16'4" each leaf, 230V A.C. motors.

Qty
001A5000A 230v Motor
001AF43S Frequency card. ( $433,92 \mathrm{MHz}$ )
001DIR-10 Pair Safety Photocells
002ZA3N Control Panel
001TOP-432NA Radio Remote (433,92MHz) 001TOP-A433N Antenna

## Ati-P24 kit

Complete kit for a pair of swing gates of up to
5.0 m / 16'4" each leaf, 24V D.C. motors.

2 24V-N
001AF43S Frequency card. (433,92MHz)
001DIR-10 Pair Safety Photocells

## Ati-S kit

Complete kit for a single swing gate of up to $5.0 \mathrm{~m} / 16^{\prime} 4$ " each leaf, 230V A.C. motors. oty

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




## Ati-S24 kit

Complete kit for a single swing gate of up to $5.0 \mathrm{~m} / 16^{\prime} 4^{\prime \prime}$ each leaf, 24V D.C. motors.
$\qquad$
Qty

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


## Ati P324 kit

Complete kit for a pair of swing gates of up to 3.0 m / 9'10" each leaf, 24V D.C. motors.


OO2ZA3N Control Panel
001TOP-432NA Radio Remote (433,92MHz)
001TOP-A433N Antenna


001A3024N 24v Motor
001AF43S Frequency card. (433,92MHz)
001DIR-10 Pair Safety Photocells

## Ati-S324 kit

Complete kit for a single swing gate of up to $3.0 \mathrm{~m} /$ 9' $^{\prime} 10^{\prime \prime}$ each leaf, 24V D.C. motors.

$\square$


## Axo-P3 kit

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


001 AX302304 230v Motor
001AF43S Frequency card. ( $433,92 \mathrm{MHz}$ )
001DIR-10 Pair Safety Photocells


## Axo-P7 kit

Complete kit for a pair of swing gates up to 7.0 m / 22' 11" per leaf, 230V A.C. motors.
 001 AF43S Frequency card. ( $433,92 \mathrm{MHz}$ ) 001DIR-10 Pair Safety Photocells


## Axo-S3 kit

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



## Axo-S7 kit

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


## Axo-P4 kit

Complete kit for a pair of swing gates up to 4.0 m / 13' per leaf, 230V A.C. motors

001 AX402306 230v Motor<br>001AF43S Frequency card. ( $433,92 \mathrm{MHz}$ )<br>001DIR-10 Pair Safety Photocells

Qty New EN


## Axo-S4 kit

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

```
|山)
    (9] 800kg
```

001AX402306 230v Motor
001AF43S Frequency card. ( $433,92 \mathrm{MHz}$ )
$\frac{\text { aty }}{1}$ new -EN
EN
002ZM3E Control Panel
$\frac{\text { Qty }}{1}$ new- EN 001DIR-10 Pair Safety Photocells 001TOP-432NA Radio Remote (433,92MHz) 001TOP-A433N Antenna



## Axo-P324 kit

Complete kit for a pair of swing gates up to
3.0 m / 9' 10" per leaf, 24V D.C. motors.


001AX3024 24v Motor
001AF43S Frequency card. (433,92MHz) 001DIR-10 Pair Safety Photocells

Qty 240 New EN



BX-78 kit
Complete kit for a sliding gate
for a gate weighing up to $800 \mathrm{~kg}, 230 \mathrm{~V}$ A.C.

Complete kit for a single swing gate up to 3.0 m / 9' 10" leaf, 24 V D.C. motors.



## Axo-P524 kit

Complete kit for a pair of swing gates up to $5.0 \mathrm{~m} / 16^{\prime} 4^{\prime \prime}$ per leaf, 24V D.C. motors.

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                                    |m)
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001AX5024 24v Motor
001 AF43S Frequency card. (433,92MHz) 001DIR-10 Pair Safety Photocells

Qty 24 New EN
1
1
 1 240new En 001TOP-432NA Radio Remote (433,92MHz) 2 001TOP-A433N Antenna

## Axo-S524 kit

Complete kit for a single swing gate up to 3.0 m / 16'4" leaf, 24V D.C. motors.


## BX-P kit

Complete kit for a sliding gate
for a gate weighing up to 600kg, 230V A.C
Qty
001TOP-432NA Radio Remote (433,92MHz) 001TOP-A433N Antenna

001AX5024 24v Motor
001AF43S Frequency card. (433,92MHz)
 001 AF43S Frequency card. ( $433,92 \mathrm{MHz}$ ) 001DIR-10 Pair Safety Photocells $\qquad$

## BX-10 kit

Complete kit for a sliding gate
for a gate weighing up to 600 kg , 230 V A.C
Qty Qty 001TOP-432NA Radio Remote (433,92MHz) ${ }^{2}$ 001TOP-A433N Antenna -new En


$\square$

## BX-243 kit

Complete kit for a sliding gate
for a gate weighing up to 400kg, 24v D.C

\section*{| Lu) 10 m |
| :---: | :---: |
| (a) 400 kg |}

Qty
24V) EN
001TOP-432NA Radio Remote (433,92MHz) 2
OO1TOP-A433N Antenna 1

001BX243 24V Motor \& Panel
001 AF43S Frequency card. (433,92MHz) 001 DIR-10 Pair Safety Photocells


## BK-800 kit

Complete kit for a sliding gate
for a gate weighing up to 800kg, 230V A.C
Qty


001BK800 230v Motor \& Panel
 001AF43S Frequency card. ( $433,92 \mathrm{MHz}$ ) 001DIR-10 Pair Safety Photocells

## BK-12P kit

Complete kit for a sliding gate
for a gate weighing up to $1200 \mathrm{~kg}, 230 \mathrm{~V}$ A.C.

Qty
((10)
001TOP-432NA Radio Remote (433,92MHz) 001TOP-A433N Antenna


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

## BK-1200 kit

Complete kit for a sliding gate
for a gate weighing up to 1200kg, 230V A.C.

## (1) 20 m

Qty
Qty

## BKE-1200 kit

Complete kit for a sliding gate for a gate weighing up to $1200 \mathrm{~kg}, 230 \mathrm{~V}$ A.C.

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

001TOP-432NA Radio Remote (433,92MHz) 2 001TOP-A433N Antenna

BK-1800 kit
Complete kit for a sliding gate
for a gate weighing up to $1800 \mathrm{~kg}, 230 \mathrm{~V}$ A.C.
Qty

| 001BK1800 230v Motor \& Panel |
| :--- |
| 001AF43S Frequency card. (433,92MHz) |
| 001DIR-10 Pair Safety Photocells |


|  | Qty |
| :---: | :---: |
| 001TOP-432NA Radio Remote (433,92MHz) | 2 |
| 001TOP-A433N Antenna | 1 |

## BKE-1800 kit

Complete kit for a sliding gate for a gate weighing up to $1800 \mathrm{~kg}, 230 \mathrm{~V}$ A.C

## Qty

001 BKE1800 230v Motor, Panel \& Encoder 001AF43S Frequency card. (433,92MHz) 001DIR-10 Pair Safety Photocells

001TOP-432NA Radio Remote (433,92MHz) 001TOP-A433N Antenna


## Flex U8711 Kit

Complete kit for a pair of swing gates of up to $1.6 \mathrm{~m} / 5^{\prime} 3^{\prime \prime}$ per leaf. 24v D.C. motors.

## BK-2200 kit

Complete kit for a sliding gate
for a gate weighing up to $2200 \mathrm{~kg}, 230 \mathrm{~V}$ A.C.

Qty
001BK2200 230v Motor \& Panel 001 AF43S Frequency card. (433,92MHz) 001DIR-10 Pair Safety Photocells

Complete kit for a sliding gate for a gate weighing up to $2200 \mathrm{~kg}, 230 \mathrm{~V}$ A.C.

## Qty

001 DIR-10 Pair Safety Photocells


Ver U4483-B Kit
Complete Garage Door Kit. Complete with chain guide


## 001KIARO24N Flashing Light

## Ver U4480-B Kit

Complete Garage Door Kit. Complete with belt guide


## Ver U4512-B Kit

Complete Garage Door Kit.
Complete with belt guide

```
\(\frac{\text { Qty }}{1} 240\)
```

```
5m
```



201V700E
24v Motor
001V0687
Standard Transmission Arm
4
001TOP-RG58
Antenna cable.

0Ou1Doc-P Button


## Tra

Complete remote control radio systems

## Complete Kits

Tra03
Complete $433,92 \mathrm{MHz}$ radio system for 12-24V A.C.-D.C. universal use

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

Tra08
Complete $433,92 \mathrm{MHz}$ radio system for 230V A.C. universal use

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

TraO10 complete $433,92 \mathrm{MHz}$ radio system for 12-24V A.c.-D.c. universal use - 999 users

| 001RBE4MT | $12-24 \mathrm{~V}$ A.C.-D.C. IP54 surface mount 4-channel multi-user <br> receiver to store up to 999 codes (users) | 1 |
| :--- | :--- | :--- |
| 001TAM-432SA | Radio Remote (433,92MHz) | 2 |
| 001TOP-A433N | Antenna. | 2 |
| 001TOP-RG58 | Antenna cable. | 5 m |

Tra04 complete 433,92 MHz command system for ROLLING SHUTTERS

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



A world of safe automation


## Swing gate operators

CAME

## 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 230 v A.C., 24 v D.C. and three phase options, follow the suggested application type below to choose the system that suits your application.


## Standard RESIDENTIAL installation example

## TRAINED users and positioned on a PUB IC 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.
EN
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

A | A |  |
| :--- | :--- |
| B |  |
| C |  |
| D |  |
| E |  |
| F |  |
| G |  |
| H |  |
| (I) |  |
| L |  |
| M | N |

$$
\begin{array}{ll}
\text { B } & \text { TX Infrared photocells } \\
\text { C } & \text { RX Infrared photocells } \\
\text { D } & \text { Electric lock } \\
\text { E } & \text { Safety sensitive edge } \\
\text { F } & \text { Flashing light } \\
\text { G } & \text { Antenna } \\
\text { H } & \text { Selector switch (key - code - card) } \\
\text { D } & \text { Gate plate } \\
\text { L) Control panel } \\
\text { LI } & \text { Wireless nhotacells } M \text { M TXX }
\end{array}
$$



## Standard APARTMENT BLOCK installation example TRAINED users and positioned on a PUBUIC STREET

In the following example we suggest using a 24 V 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 $\mathbf{C}+\mathrm{D}$ type minimal solutions (ref. page 7 ):
employing sensitive safety edges and infrared beam photocells.

## EN 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


(M) O wi


The PCT transponder keyfobs, coupled with
the TSPO1 proximity sensors, lets you ooe The PCT transponder keytobs, coupled wit
the TSPO proximity sensors, lets you ope
your gates simply by holdin them your gates simply by holding, them up to the
sensor, which can store up to 250 differen sensor, which can. store up to 250 differe
keytoos (or cards). These can also be used open the door to stairwells or private garag
doors.

Swing Gate Operators

| OPERATORS - SERIES | ATI | ATI |  | A1824 | F500 | F500 | FROG-A24 | A3024N | $\begin{aligned} & \text { FROGG-A24 } \\ & \text { F1022 } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | KRoNO | Krono |  | FROG-J | F510 | F510 | F1024 | A5024N |  |
|  | FROG | FROG |  |  |  |  |  | F7024N |  |
|  | FAST | FAST |  |  |  |  |  |  |  |
|  | FERNI | FERM |  |  |  |  |  |  |  |
| CAPD - PANEL | ZASN | ZM3E | $2 \mathrm{F1}$ | z.90 | ZL150N | ZLL60N | ZL170N | ZL180 | ZL19N |
| FUNCTIONAL FEATURES |  |  |  |  |  |  |  |  |  |
| SELF-DIAGNOSIS of active safety devices function |  | $\bullet$ |  | $\bullet$ |  |  |  | - | $\bullet$ |
| Opening and Closing PREFLASHING function | - | $\bullet$ |  | $\bullet$ | $\bullet$ |  | $\bullet$ | $\bullet$ | $\bullet$ |
| REOPENNG during Closing function | $\bullet$ | - | - | $\bullet$ | $\bullet$ | - | $\bullet$ | - | $\bullet$ |
| RECLOSING during opening function | - | - |  |  | $\bullet$ |  |  |  |  |
| Obstacle STALL function |  | - |  | - |  |  |  |  |  |
| TOTAL LTOP function | - | - | - | - | $\bullet$ | $\bullet$ | - | - | - |
| PARTIAL STOP of the gat--leaf function | - | - |  | - | $\bullet$ |  | $\bullet$ | $\bullet$ | $\bullet$ |
| OBSTACLL Detection function on photocells | - | - |  | - | - |  | $\bullet$ | - | $\bullet$ |
| ENCODER operation |  | - |  | - |  |  |  |  |  |
| Movement Control and obstacle detection device |  | - |  |  |  |  |  |  |  |
| AMPPROMETTRIC Detection function |  |  |  | - |  | - | - | - | - |
| 11 leaf PEDESTRIAN OPENNG function |  | - | - | - |  |  |  | - | - |
| 1 leaf PARTIAL OPENNG function | - | - |  |  | - |  |  |  |  |
| TRANSMITTER OPEN ONLY function | - | - |  | - | - |  | - | - | - |
| OPEN ONLY button connection function | - | - |  | - | - |  | - | - | - |
| CLOSE ONLY button connection function | - | - |  | - | - |  |  |  | - |
| OPEN-STOP-CLOSE-STOP button connection function | $\bullet$ | - | - | $\bullet$ | $\bullet$ | - | - | - | $\bullet$ |
| OPEN-CLOSE-REVERSE button comnection function | - | - | - | $\bullet$ | - | $\bullet$ | $\bullet$ | - | $\bullet$ |
| MAINTANED ACTION command function | - | - | - | $\bullet$ | $\bullet$ | - | $\bullet$ | $\bullet$ | $\bullet$ |
| 1st leaf DELAYYED CLOSING function | - | - | - | $\bullet$ | - |  |  | $\bullet$ | $\bullet$ |
| 2st leaf delayed closing function | $\bullet$ | - | - | - | - |  |  | - | $\bullet$ |
| IMMEDIATE Closing function |  |  |  |  |  |  |  |  |  |
| EMERGENCY RELEASE function from the remote control |  |  |  |  |  |  |  |  |  |
| FLASHING LIGHT coonection | - | $\bullet$ | - | - | - | - | - | - | - |
| CYCLE LAMP connection | $\bullet$ | $\bullet$ |  |  |  |  | $\bullet$ |  | $\bullet$ |
| COURTESY LAMP comnection |  | - |  |  |  |  |  |  |  |
| Antenna connection | $\bullet$ | $\bullet$ | $\bullet$ | - | $\bullet$ | $\bullet$ | - | - | - |
| 24V ACCESSORIES Connections | - | $\bullet$ | $\bullet$ | - | - | $\bullet$ | - | - | - |
| OPEN WARNNG LIGHT connection | - | $\bullet$ | $\bullet$ | $\bullet$ | - | - | - | - | $\bullet$ |
| CLOSED WARNNG LIGHT connection |  |  |  |  |  |  |  |  |  |
| Contact output for 2nd RADIO CHANNEL | $\bullet$ | $\bullet$ |  | - | - |  | - | - | - |
| Adjusting RUNNING TIME | - | $\bullet$ | - | $\bullet$ | - | $\bullet$ | $\bullet$ |  |  |
| EXTRACTABLE, NUMBERED connection terminals | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ |
| SELF-LEARNNG function of the transmitter's RADIO code | - | - | - | - | - | - | - | - | - |
| RAM BLOW function to aid the release of the electrolock | $\bullet$ | $\bullet$ | $\bullet$ |  | $\bullet$ | $\bullet$ | $\bullet$ |  | - |
| Adiustable AuToMATC RE-CLOSING TIME function | - | - | - | - | - | $\bullet$ | - | - | - |
| ELECTroLockelectrorelease connection output | - | - | - | $\bullet$ | - | - | - | $\bullet$ | - |
| OPENING AND/OR CLLSSING deceleration |  | - |  | - |  |  | - | - | - |
| EmERGENCY-Battery operation (optional) |  |  |  | - | - | - | - | - | - |
| MASTER-SLAVE operation mode |  |  |  |  |  |  |  |  |  |
| Adjustable RUNNING SPEED AND DECELEBATION function |  | - |  | - |  |  | - |  | - |
| Warning DISPLAY |  | - |  |  |  |  |  |  |  |
| Electronic BAAKE |  |  |  |  |  |  |  |  |  |
| CONTROL and warning led | - | - |  | - | - | - | - | - | - |
| SELF-LEARNNG function of the opening and dosing endstops |  |  |  | - |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

Frog
Swing gate operators Completely Hidden
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 9
Frog's high quality standards
anditis66 protection
rating from external agents ating from externala agen
help keep the motor in help keep the $m$
working order.

© EN Tested Models

Frog 24 V and 230 V technology allows for total control of the gate movement. FROGA-A24 and FROG-AE 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.
 NOTES: * We recommend provision be made for an electric lockift the wing is wider than 2.5 m

Dimensions



| Trye | Froc-A | Frocav | Froc-aE | FROG-224 |
| :---: | :---: | :---: | :---: | :---: |
| Protection rating | 1 P67 | 1P67 | IP67 | 1 P67 |
| Power supply ( ) (50/60Hz) | 230 A.C. | $230 \mathrm{AC}$. | 230 A.C. | $230 \mathrm{AC}$. . |
| M Motor power supply () | 230 A.C. $50 / 60 \mathrm{~Hz}$ | 230 A.C. $50 / 60 \mathrm{~Hz}$ | 230 A.C. $50 / 60 \mathrm{~Hz}$ | $24 \mathrm{DC}$. . |
| Current draw (A) | 1.9 | 2.5 | 1.9 | 15 Max |
| Power (M) | 200 | 300 | 200 | 180 |
| $90^{\circ}$ opening time (s) | 18 | 9 | 18 | 16-45 |
| Duty cycle (\%) | 30 | 30 | 30 | Intensive use |
| Thrust (N) | 320 | 240 | 320 | 320 |
| Operating temperature ( $\mathrm{C}^{\circ} / /^{\prime}$ F) |  | $-20^{\circ} \mathrm{C}$ to $55^{\circ} \mathrm{C}$ | $-4{ }^{\circ} \mathrm{Fto} 131{ }^{\circ} \mathrm{F}$ |  |
| Motor's therm-protection ( $\mathrm{C} /$ / $\%$ ) | 150/302 | 150/302 | 150/302 | - |

## The complete range



Dimensions in millimetres ( $25.4 \mathrm{~mm}=1 \mathrm{in}$ )
Accessories
Safety control pages
Radio control pages 176-189

The complete range


New FROG foundation case
 the new FROG foundation case provides improved
hemical and corrosion resistance to ensure lon chemical and corrosion resistance to ensure long lasting protection.

## Frog-J

Swing gate operators
Underground automation motor, just 85 mm deep. The Frog-J is a 24 V underground operator for swing gates of up to $1.8 \mathrm{~m} / 5$ 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 suitable for use around children or pets.


Advantages of Frog-J
CAME's latest solution in underground operators, suitable even when gates are not originally designed for underground automation. The Frog-s 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


Dimensions


24V) 24 Volts

Frog-J is a below ground, 24V D.C. automation system which offers all of the advantages that come with working gate run, obstacle detection and emergency batteries that can be connected to the system to allow opening
even when the power is out.
or gate leaves of up to 1.8 m


Dimensions in millimetres ( $25.4 \mathrm{~mm}=1 \mathrm{in}$ )


| Type | FROG-J |  |
| :---: | :---: | :---: |
| Protection rating | 1 P67 |  |
| Power supply ( ) (50/600Hz) | 230 A.C. |  |
| Motor power supply () | $24 \mathrm{D} . \mathrm{C}$. |  |
| Current draw (A) | 10 Max |  |
| Power ( W ) | 240 |  |
| $90^{\circ}$ opening time (s) | Adiustable |  |
| Duty cycle (\%) | Intensive use |  |
| Torque ( Nm ) | 260 |  |
| Operating temperature ( ${ }^{\circ} \mathrm{C} /$ FF) | $-20^{\circ} \mathrm{C}$ to $55^{\circ} \mathrm{C} \quad-4 \mathrm{~F}^{\circ} \mathrm{to} 131{ }^{\circ} \mathrm{F}$ |  |
|  |  | - 24V D.C. |

The complete range

001FROG-J Operator with encoder.


002ZL90 Control panel for two-leaf swing gates with built-in radio decoder.


## Casing \& Locks

001FROG-JC Foundation case.

001A4617 Release assembly with customised key.

Accessories
BAT2PK Set of $2 \times 12 \mathrm{~V}-1.2 \mathrm{Ah}$ batteries.


Accessories $\begin{aligned} & \text { Access control pages 160-165 } \\ & \text { Safety pages 166-175 }\end{aligned}$
Safety pages 166-175
Radio control pages 176-189

## Ferni

Swing gate operators For mounting on large pillars.
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.


Precise, sturdy and
dependable. deependable.
Ferni features micro-switche
for adiusting the for adjusting the opening of
the gate, and is the gate, and is
manufactured fro qualityactured matriam high helping
reduce maintenance quaity materials helping
reduce maintenance costs.


## Large sized Pillars.

 Ferni is the optimal solutionfor gates with leaves of up to $4 \mathrm{~m} / 13^{14}$ " long,
mounted on pillars $w$ mounted on pillars where distance can be quite
(up to $38 \mathrm{~cm} / 15 \mathrm{in}$ )


ENEN Tested Models
Ferni 24 V 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 $4 \mathrm{~m} / 13 \mathrm{ft}$ in length.
A system which enables gate automation when the dimensions of a pillar
orevent 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 $2 \mathrm{~m} / 6^{\prime} 6^{\prime \prime}$ wide.

Limits to use
 NOTES: if the gate leaf is wider than $2.5 \mathrm{~m} / 8^{\prime} 2^{\prime \prime} \mathrm{ft}$, the F 1000 and F 1024 models require an electric lock to be installed. While an electric lock is always required for the F1100 model.


Dimensions



| Type | F1000 | F1100 | F1024 |
| :---: | :---: | :---: | :---: |
| Protection rating | 1P54 | 1P54 | 1 P54 |
| Power supply ( ) (50/60Hz) | $230 \mathrm{AC}$. . | $230 \mathrm{AC}$. . | 230 A.C. |
| Motor power supply ( ) | 230 A.C. $50 / 60 \mathrm{~Hz}$ | 230 A.C. $50 / 60 \mathrm{~Hz}$ | $24 \mathrm{DC}$. . |
| Current draw (A) | 1.3 | 1 | 15 Max |
| Power (W) | 150 | 110 | 180 |
| $90^{\circ}$ opening time (s) | 18 | 18 | 16-45 |
| Duty cycle (\%) | 30 | 50 | Intensive use |
| Toraue ( (mm) | 320 | 380 | 470 |
| Operating temperature ( $0^{\circ} /$ / $F$ F | $-20^{\circ} \mathrm{Cto} 55^{\circ} \mathrm{C} \quad-4 \mathrm{~F}^{\circ}$ to $131{ }^{\circ} \mathrm{F}$ |  |  |
| Motor's thermo-protection ( $\mathrm{C}^{\text {C/FF) }}$ | 150/302 | 150/302 | - |
|  |  |  | $0^{2300 ~ A C .}$ |

The complete range


# Accessories 

001LOCK81 Electric lock with single-cylinder
001LOCK82 Electric lock with double-cylinder.

## 001F1001 Straight telescopic transmission arm for up to $2 \mathrm{~m} / 6^{\prime} 6^{\prime \prime}$ long gate leaves

001 H 3000 Safety casing complete with release handle and command button for pull-cord release $\mathrm{L}=5 \mathrm{~m} / 16^{\prime} 4^{\prime \prime}$

BAT3PK Set of 3 12V - 7Ah batteries.

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.

© EN Tested Models
The 24V D.C. models together with the dedicated ZL 180 panel constantly controls the gate movement allowing
for safe movement, in compliance with EU standards.

## EN TESTED



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

 Dimensions


## Technical features

| Type | A3000 - A3100 /A5000 - A5100 | A 3006 - A3106/ / 5006 - A5106 | A3024N - A5024N |
| :---: | :---: | :---: | :---: |
| Protection rating | 1 P 44 | 1 P 44 | 1 P 44 |
| Power supply ( ) (50160Hz) | $230 \mathrm{AC}$. . | 230 A.C. | 230 A.C. |
| Motor power supply () | 230 A.C. $50 / 60 \mathrm{~Hz}$ | 230 A.C. $50 / 60 \mathrm{~Hz}$ | 24 D.C. |
| Current draw (A) | 1,2 | 1,2 | 10 Max |
| Power ( $M$ ) | 150 | 150 | 120 |
| $90^{\circ}$ opening time (s) | 19/32 | $28 / 45$ | Adjustable |
| Duty cycle (\%) | 50 | 50 | Intensive Use |
| Thrust (N) | 400-3000 | 400-3000 | 400-3000 |
| Operating temperature ( $0^{\circ} / 1 / \mathrm{F}$ ) |  | $-20^{\circ} \mathrm{Cto} 55^{\circ} \mathrm{C}-4{ }^{\circ} \mathrm{F}$ to $131{ }^{\circ} \mathrm{F}$ |  |
|  | 150/302 | 150/302 | - |

The complete range

| 230 V A.C. external operators |  |
| :---: | :---: |
| 001A3000A | Self-locking operator for gate leaves of up to $3 \mathrm{~m} / 10 \mathrm{ft}$ (opening time $90^{\circ} 19 \mathrm{~s}$ ). |
| 001A3100 | Reversible operator for gate leaves of up to $3 \mathrm{~m} / 10 \mathrm{ft}$ (opening time $90^{\circ} 19 \mathrm{~s}$ ). |
| 001A3006 | Self-locking operator for gate leaves of up to $3 \mathrm{~m} / 10 \mathrm{ft}$ (opening time $90^{\circ} 28 \mathrm{~s}$ ). |
| 001A3106 | Reversible operator for gate leaves of up to $3 \mathrm{~m} / 10 \mathrm{ft}$ (opening time $90^{\circ} 28 \mathrm{~s}$ ). |
| 001A5000A | Self-locking operator for gate leaves of up to $5 \mathrm{~m} / 16 \mathrm{ft}$ (opening time $90^{\circ} 32 \mathrm{~s}$ ). |
| 001A5100 | Reversible operator for gate leaves of up to $5 \mathrm{~m} / 16 \mathrm{ft}$ (opening time $90^{\circ} 32 \mathrm{~s}$ ). |
| 001A5006 | Self-locking operator for gate leaves of up to $5 \mathrm{~m} / 16 \mathrm{ft}$ (opening time $90^{\circ} 45 \mathrm{~s}$ ). |
| 001 A5106 | Reversible operator for gate leaves of up to $5 \mathrm{~m} / 16 \mathrm{ft}$ (opening time $90^{\circ} 45 \mathrm{~s}$ ). |



230 V A.C. control panels
002ZA3N Multifunction control panel with built-in radio decoder.
002ZM3E Multifunction control panel with signalling display, auto-diagnosis of safety devices and built-in radio decoder.

| 24V D.C. external operators and control panel (min gate leaf width $=\mathbf{1 . 5} \mathrm{m} / \mathbf{4}^{\prime} \mathbf{9}^{\prime \prime} \mathrm{ft}$ ) |
| :--- |
| $001 \mathrm{~A} 3024 \mathrm{~N} \quad$ Self-locking operator for gate leaves of up to $3 \mathrm{~m} / 10 \mathrm{ft}$ (adjustable $90^{\circ}$ opening time). |



001LOCK81 Electric lock with single cylinder.
001LOCK82 Electric lock with double cylinder.
001D001 Lock cylinder with DIN key.
001 H3000 Safety casing complete with release handle and command button for pull-cord release

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


| 4. |
| :--- |
| 1. |

$\square$
for gate leaves of up to $3-5$ m for gate leaves of up to $10-16 \mathrm{ft}$

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.



The complete range

|  | 230 V A.C. external operators |  |
| :---: | :---: | :---: |
|  | 001KR300D | Right-hand self-locking operator for gate leaves of up to $3 \mathrm{~m} / 10 \mathrm{ft}$. |
|  | 001KR300S | Left-hand self-locking operator for gate leaves of up to $3 \mathrm{~m} / 10 \mathrm{ft}$. |
|  | 001KR310D | Right-hand self-locking operator with built-in gate-leaf stop microswitches, for leaves of up to $3 \mathrm{~m} / 10 \mathrm{ft}$. |
|  | 001KR310S | Left-hand self-locking operator with built-in gate-leaf stop microswitches, for leaves of up to $3 \mathrm{~m} / 10 \mathrm{ft}$. |
|  | 001KR510D | Right-hand self-locking operator with built-in gate-leaf stop microswitches, for gate leaves of up to $5 \mathrm{~m} / 16 \mathrm{ft}$. |
|  | 001KR510S | Left-hand self-locking operator with built-in gate-leaf stop microswitches, for gate leaves of up to $5 \mathrm{~m} / 16 \mathrm{ft}$. |


|  | ${ }^{230 V}$ A.C. external operators |  |
| :---: | :---: | :---: |
|  | 001KR300D | Right-hand self-locking operator for gate leaves of up to $3 \mathrm{~m} / 10 \mathrm{ft}$. |
|  | 001KR300S | Left-hand self-locking operator for gate leaves of up to $3 \mathrm{~m} / 10 \mathrm{ft}$. |
|  | 001KR310D | Right-hand self-locking operator with built-in gate-leaf stop microswitches, for leaves of up to $3 \mathrm{~m} / 10 \mathrm{ft}$. |
|  | 001KR310S | Left-hand self-locking operator with built-in gate-leaf stop microswitches, for leaves of up to $3 \mathrm{~m} / 10 \mathrm{ft}$. |
|  | 001KR510D | Right-hand self-locking operator with built-in gate-leaf stop microswitches, for gate leaves of up to $5 \mathrm{~m} / 16 \mathrm{ft}$. |
|  | 001KR510S | Left-hand self-locking operator with built-in gate-leaf stop microswitches, for gate leaves of up to $5 \mathrm{~m} / 16 \mathrm{ft}$. |

## Accessories Access control pages 160-165



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

OUTSIDE



## Krono Handing

The Krono motor is now available in a 5 m 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.



Advantages of Krono
Manufactured in aluminium, the Krono provides constant robust and reliable operation.
(he 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
Max width of gate leaf ( $m$ )
Max weight of gate leaf (Kg)
Max width of gate leaf (m)
Max weight of gate leaf ( $(\mathrm{Kg})$

Dimensions


Swing gate operators 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.




The complete range
${ }^{230 V}$ A.C. external operators
001 F7000 $\begin{aligned} & \text { Self-locking operator complete with articulated transmission arm and built-in control panel. } \\ & \text { (See p. } 58 \text { for control panel functions) }\end{aligned}$ (See p. 58 for control panel functions)
001 F7001 Self-locking operator complete with articulated transmission arm.


Advantages of Fast
With its articulated transmission arms Fast is the new automation system for swing gates up to $2.3 \mathrm{~m} / 7^{\prime} 5^{\prime \prime}$ long.
deal for installation on medium and large pillars with straightforward hinge geometry
he Fast is also available in the 24 V version, to ensure a safe movemen of the gate.

| Limits to use |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Woodel |  |  | F702 |  |
| Max witth of gate leaf (m) | 2.3 | 2 | 1.5 | 1 |
| Max weight of gate leaf ( Kg ) | 200 | 215 | 250 | 300 |

Dimensions
© EN Tested Models Fast 24 V technology allows for total control of the
gate movement. The new F 7024 N complies with gate movement. The new F7024N complies with
European Standards regarding the impact forces generated during operation.

Self-locking operator complete with articulated transmission arm.
242


001 H 3000 Safety casing complete with release handle and command


BAT2PK Set of 2 12V - 1.2 Ah batteries.

## Amico

Swing gate operators 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.


The complete range



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 L90 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.


Dimensions
(ex) New 230v motor

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


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 230 v and 24 v versions.

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

En Tested Thanks to the advanced
electronics on the ZM3E and $Z L J 24$ control boards,
the Axo motors are capable of Avo motors are capable
of meeting the EN standards regarding impact forces.

© EN Tested Models

movement. The new range is capable of complying movement. The new range is capable of complying
with European Standards regarding the impact forces generated during operation. gates. straight out of the box.
Limits to USE Ane del



The complete range
230 V A.C. external operators
001 AX 302304 Self-locking operator for gate leaves of up to $3 \mathrm{~m} / 10 \mathrm{ft}$. (opening time $90^{\circ} 20 \mathrm{~s}$ )
new EN
001 AX402306 Self-locking operator for gate leaves of up to $4 \mathrm{~m} / 13 \mathrm{ft}$. (opening time $90^{\circ} 28 \mathrm{~s}$ )
001 AX 412306 Reversible operator for gate leaves of up to $4 \mathrm{~m} / 13 \mathrm{ft}$. (opening time $90^{\circ} 28 \mathrm{~s}$ )
001 AX 71230 Reversible operator for gate leaves of up to $7 \mathrm{~m} / 22^{\prime} 9^{\prime \prime} \mathrm{ft}$. (opening time $90^{\circ} 40 \mathrm{~s}$ )

## 230V A.C. control panels



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

24V D.C. external operators
residential uses on smaller gates to opening exceedingly heavy or large
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


001 AX 3024 Self-locking operator for gate leaves of up to $3 \mathrm{~m} / 10 \mathrm{ft}$. (opening time $90^{\circ}$ adjustable)

```
001AX5024 \begin{array}{l}{\mathrm{ Self-locking operator for gate leaves of up to 5 5 m/16'4" f.}}\\{\mathrm{ (opening time 90' adustable)}}\end{array}
Self-locking operator for gate
(opening time \(90^{\circ}\) adustable)
```


## 24V D.C. control panels

002ZLJ24 Control panel for two-leaf swing gates with built-in radio decoder.

Accessories

001LOCK81 Electric lock with single cylinder
001LOCK82 Electric lock with double cylinder.

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



## Flex

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

Swing gate operators
Capable of mounting to posts as small as 8 cm . 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 pedestria passages in residential or apartment settings.


Advantages of Flex
Extremely compact and a simple, versatile product. Flex is also available with a "slide arm" option, when reduced space or adjacent wall requir 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 use

| Model | F500 - F510 |  |  |
| :---: | :---: | :---: | :---: |
| Max width of gate leaf (cm) | 160 | 120 | 80 |
| Max weight of gate leaf (Kg) | 100 | 125 | 150/330 |

Dimensions
© ${ }^{\text {en }}$ EN Tested Models

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

| ype | F500 | F510 |
| :---: | :---: | :---: |
| Protection rating | IP54 | 1P54 |
| Power supply ( ( $50 / 60 \mathrm{~Hz}$ ) | 230 A.C. | 230 A.C. |
| Motor power supply () | $24 . \mathrm{DC}$. | 24 D. |
| Current draw (A) | 2 Max | 2 Max |
| Power (M) | 48 | 48 |
| $90^{\circ}$ opering time (s) | 13 | 9 |
| Duty cycle (\%) | Intensive use | Intensive use |
| Toraue (Nm) | 100 | 100 |
| Operating temperature ( $0^{\circ} / / 9$ F | $-20^{\circ} \mathrm{C}$ to $55^{\circ} \mathrm{C} \quad-4{ }^{\circ} \mathrm{Fto} 131{ }^{\circ} \mathrm{F}$ |  |

The complete range


| 002LB54 | Card for connecting two $12 \mathrm{~V}-1.2$ 2 |
| :--- | :--- |
| 001LOCK81 | Electric lock with single cylinder. |
| 001LOCK82 | Electric lock with double cylinder. |
| BAT2PK | Set of $2 \times 12 \mathrm{C}-1.2$ Ah batteries. |

Superfrog
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!


## 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.

## Extremely sturdy. Superfrog is a syste Superfrog is a system w features exceptional force eatures exceptionaf force and extreme mechanical sturdiness.

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

Limits to use



It withstands anything! materials and the high protection from
environmental agents environmental agents
ensure that Supertrog $w$ ensure that Superriog w
last and last with little
la


Dimensions
(3-phase
Superfrog is powered by a $230-400 \mathrm{~V}$ 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.

## Technical features

| rype | FROG-MD/MS |  |
| :---: | :---: | :---: |
| Protection rating | 1 P 67 |  |
| Power supply ( ) (50/600Hz) | 230-400 A.C. 3 -phase |  |
| Motor power supply (M) (50/60Hz) | 230-400 A.C. 3 -phase |  |
| Current draw (A) | 2.5 max |  |
| Power (M) | 600 |  |
| $95^{\circ} \mathrm{Max}$ opening time (s) | 45 |  |
| Duty cylce (\%) | 50 |  |
| Torque (Nm) | 1000 |  |
| Operating temperature ( $\mathrm{C}^{\circ} / \mathrm{F}^{\circ} \mathrm{F}$ ) | $-20^{\circ} \mathrm{Cto} 55^{\circ} \mathrm{C} \quad-4 \mathrm{~F}^{\circ}$ to $131{ }^{\circ} \mathrm{F}$ |  |

The complete range


230-400V A.C. 3 -phase underground operators
001FROG-MD Right-hand self-locking operator.
001FROG-MS Left-hand self-locking operator.

230-400V A.C. three-phase control panel
002ZM3ES Control panel.

## Foundation cases

001FROG-CD Foundation case for right-hand operator.
001FROG-CS Foundation case for left-hand operator. Radio control pages 176-189

Accessories Access control pages 100-165 Safety pages 166-175


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 Operations, as well as any
subsequent maintenance.


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

## Auto test.

"some modells are fitted with serf-diagnosis" of their
protective devices. The circuit prevents the operato
from working in case any
anomaly anomaly is detected din one
of the safety devices which of the safety devices whic
is connected up to is connected
the system.


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.
anel.
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.
Better when illuminated!! you can control the auxilian lighting of the driveways
surrounding area. This feature makes it safer and Yeature makesit saier and
easier to use the entrance.


ZM3E CONTROL BOARD, with its advanced technology, makes it possible to automate any 230 V system, even on outdated systems o ones assembled with a variety of materials.

Dimensions

## 2300) 230 V technology

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


ZA3N

zм3в

|  | I230 |  |  |
| :---: | :---: | :---: | :---: |
| ction rating | \|P54 |  |  |
| Material |  |  |  |
| Operating temperature ( ${ }^{\text {c// } / \text { P }}$ ) | C to $55^{\circ} \mathrm{C}$ | $-4^{\circ} \mathrm{F}$ to $131{ }^{\circ} \mathrm{F}$ |  |

The complete range

$\square$ 002ZM3E Multifunction control panel with signalling display, auto-diagnosis of safety devices and 002ZM3E $\quad \begin{aligned} & \text { Multifunction control p } \\ & \text { buit-in radio decoder. }\end{aligned}$

# 230 V A.C. control panels for 230 V A.C. operators 

Standard issue safety
The CAME 24 V 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.


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

Dimensions
© EN EN Tested Z24
Thanks to the 24V panels, EN tested systems restrict forces to ensure automated systems are always
perfectly compliant with current EU standards (s technical specifications for each model).


## The complete range

|  | 24 V D.C. control panels for 24 V D.C. operators |  |  |
| :---: | :---: | :---: | :---: |
|  | 002ZL150N | Control panel for two-leaf swing gates with built-in radio decoder for Flex series. | (intie |
|  | 002ZL160N | Control panel for one-leaf swing gates with built-in radio decoder for Flex series. | V) EN |
|  | 002ZL170N | Control panel for one-leaf swing gates with built-in radio decoder for Flex - Frog series. | N |
| Prate= | 002ZL180 | Control panel for two-leaf swing gates with built-in radio decoder for Fast - Ati series. | EN |
|  | 002ZL19N | Control panel for two-leaf swing gates with built-in radio decoder for Frog - Ferni series. | N |
|  | 002ZL90 | Control panel for two-leaf swing gates with built-in radio decoder for Frog-J - Amico series. |  |
|  | 002ZLJ24 | Control panel for two-leaf swing gates with built-in radio decoder for Axo series. |  |

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


A world of safe automation


Sliding gate operators

## CAME

## 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.


## Standard RESIDENTIAL installation

## TRAINED users and positioned on PUBLC 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.

## EN 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

A Operator with control panel
B TX Infrared photocells
C RX Infrared photocells
D Integrated protection system with safety sensitive edges
E Safety sensitive edge
F Flashing light
G Antenna
(H) Selector switch (key - code - card)

I Gate plate
( Gate

Integrate safety with Db + Df


CAME's integrated Db + Df system lets yo monitor the passage zone and the are
directly behind the sididing gates leaves. directly behind the sididing gates leaves.
The infrared beam technology makes possible to install sensitive safety edges without needing complicated cabbling
eliminating any danger of crushing.


Lighting the way



## Standard INDUSTRIAL installation

## TRAINED users and positioned in a PUBLIC STREE

Whenever possible, we suggest using $230-400 \mathrm{~V} 3$-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
EN Important
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 unloadin


Standard issue
A Operator with control panel
B $T X$ Infrared photocells
C $R X$ Infrared photocells
D Integrated protection system with safety sensitive edges
(E) Safety sensitive edge
F Flashing light
G Antenna
(H) Selector switch (key - code - card)
(I) Gate plate
L) Rack
(U) Metal mass detector ground plate-sensor


CAME sliding gate motors can be connected to many access control systems that can identitiy
memorise memorise and allow entry/exit to authorised
personnel. The equipment can be integrated personnel. The equipment can be integrate
with an access control system for specific with an access control system for specific
departmentin a company or sevices offere
by a hightrtrafic premises.

## Sliding gates operators

| OPERATORS - SERIES | $\begin{aligned} & B x-243 \\ & B x-243 C \end{aligned}$ | $\begin{aligned} & \mathrm{BX}-74 \\ & \mathrm{BX}-78 \end{aligned}$ | Bx-P | BX-246 | Bx-10 | $\begin{aligned} & \text { BK-800 } \\ & \text { BK-1200 } \\ & \text { BK-1800 } \\ & \text { BK-2200 } \end{aligned}$ | BKE-1200 BKE-1800 BKE-2200 | BK-1200Р | $\begin{aligned} & B K-22000 \\ & \mathrm{BY}-3500 \mathrm{~T} \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CARD - PANEL | ZN2 | 2BX 74-78 | zB×8 | 202 | 28x10 | ZBK | ZBKE | ZBK8 | $\begin{aligned} & \text { 2T6C } \\ & \text { ZTGC } \end{aligned}$ |
| FUNCTIONAL FEATURES |  |  |  |  |  |  |  |  |  |
| SEL--DIAGNOSIS of active safety devices function | - |  |  | - | - | $\bullet$ | $\bullet$ | $\bullet$ | - |
| Opening and dlosing PREFLASHING Gunction | - | - | - | - | - | - | - | - | $\bullet$ |
| REOPENNG during closing function | - | - | - | $\bullet$ | - | - | $\bullet$ | - | $\bullet$ |
| RECLOSING during opening function | - | - |  | - | - | - | - |  | - |
| Obstacle STALL function |  |  |  |  | - |  |  |  |  |
| TOTAL STOP function | - | - | - | - | - | - | - | - | - |
| PARTIAL STOP of the gate-leaf function | - | - | - | - | - | - | - | - | - |
| OBSTACLE DETECTION function on photocells | - | - | - | - | - | - | - | - | - |
| ENCODER operation | - |  |  |  |  |  | - |  |  |
| Movement Control and obstacle detection device |  | - |  | - | - |  |  |  |  |
| AMPEROMETRIC DETECTTON function | $\bullet$ |  |  | - |  |  |  |  |  |
| 11 leaf PEDESTRIAN OPENNG Gunction |  |  |  |  |  |  |  |  |  |
| 1 leaf Partial openng function | - | - | - | - | - | - | - | - | $\bullet$ |
| TRANSMITTER OPEN ONLY function | - | - | - | - | - | - | - | $\bullet$ | - |
| OPEN ONLL button connection function |  | - |  | - | - | - | - | - | - |
| CLOSE ONYY button connection function |  | - |  |  | - | - | - | - | - |
| OPEN-STOP-CLOSE-STOP button connection function | $\bullet$ | - | $\bullet$ | $\bullet$ | - | $\bullet$ | - | - | - |
| OPEN-CLOSE-REVERSE button connection function | - | - | - | - | - | - | - | - | - |
| MAINTANED ACTION command function | - | - | - | - | - | - | - | - | - |
| 15 It leaf DELAYEE CLOSING function |  |  |  |  |  |  |  |  |  |
| 2st leaf DELAYED Closing function |  |  |  |  |  |  |  |  |  |
| IMMEDIATE CLOSING function |  |  |  |  |  |  |  |  |  |
| EmERGENCY RELEASE function from the remote control |  |  | $\bullet$ |  |  |  |  | $\bullet$ |  |
| FLLASHING LIGHT comnection | - | - | - | - | - | - | - | - | - |
| CYCLE LAMP connection |  | $\bullet$ | - |  | $\bullet$ | - | $\bullet$ |  | $\bullet$ |
| COURTESY LAMP comnection |  |  |  |  | - | - | - |  | - |
| Antenna connection | - | $\bullet$ | $\bullet$ | $\bullet$ | - | - | - | - | - |
| 24 V ACCESSORIES comnections | - | - | - | - | - | - | - | - | - |
| OPEN WARNING LGHT coonnection | - | - | - | - | - | - | - | - | $\bullet$ |
| CLOSED WARNNG LIGHT connection |  | - | - |  |  |  |  |  | - |
| Contact output for 2nd RADIO CHANNEL |  | - |  | - |  | - | - |  | $\bullet$ |
| Adjusting RUNNMNG TME |  |  |  |  | - |  |  |  | - |
| EXTRACTABLE, NUMBERED connection terminals | - | - | $\bullet$ | $\bullet$ | $\bullet$ | - | $\bullet$ | $\bullet$ | - |
| SELF-LEARNNG function of the transmitter's RADIO code | - | - | - | - | - | - | - | - | - |
| RAM BLOW function to aid the release of the electrolock |  |  |  |  |  |  |  |  |  |
| Adjustable AuTOMATC RE-CLOSIIGG TIME function | - | - | - | - | - | - | - | - | - |
| ELECTroLockelectrorelease connection output |  |  |  |  |  |  |  |  |  |
| OPENNGG AND/R C LLOSING deceleration | - | - |  | - | - |  |  |  |  |
| EmERGENCY-BATTERY operation (optional) | - |  |  | - |  |  |  |  |  |
| MASTER-SLAVE operation mode |  |  |  |  | - | - | - |  | - |
| Adjustable RUNNING SPEED AND DECELERATION function | - | - |  | - | - |  |  |  |  |
| Warning IISPLAY |  |  |  |  | - |  |  |  |  |
| Electronic BRAKE |  | - |  | - | - | - | - |  | $\bullet$ |
| CONTROL and warning led | - | - | - | . | . | - | . | - | - |
| SEL-L-LEARNNG function of the opening and closing endstops |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | $230 \mathrm{AC}$. . | 24 V D.C. | 230-400V A | C. 3 -phase |

$B x-243$
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.


## 224 24 Volt

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

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.

| Limits to USE |  |
| :--- | :---: |
| Model |  |
| Max weight of gate leaf $($ Kg $)$ | 300 |
| Max length of gate leaf $(M)$ | 8.5 | Max length of gate e eaf ( m )

Dimensions


Dimensions in millimetres ( $25.4 \mathrm{~mm}=1 \mathrm{in}$ )


The complete range


Safety pages 166-175
Radio control pages 176-189

Sliding gate operators 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 230 V A.C. and 24 V D.C. models, for all applications, including high-traffic settings.


## EN

EN Tested Models
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.

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 230 V A.C. versions and one 24 V 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

Dimensions

for gates of up to $400-600-800 \mathrm{Kg}$ for gates of up to $880-1,320-1,760 \mathrm{lb}$


| Model | BX-74 | BX-P | Bx-246 | BX-10 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Max weight of gatel leaf (Kg) | 400 | 600 | 600 | 800 | 800 |
|  |  |  |  |  | - 24 V D |

Dimensions in millimetres ( $25.4 \mathrm{~mm}=1 \mathrm{in}$ )

| [ype | BX-74 | BX-P | BX-246 | BX-10 | BX-78 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Protection rating | 1 P54 | 1 P54 | 1 P54 | 1 P54 | 1 P54 |
| Power supply (M) (50/60Hz) | $230 \mathrm{AC}$. . | 230 A.C. | $230 \mathrm{AC}$. . | 230 A.C. | 230 A. . |
| Motor power supply () | $230 \mathrm{A.C}$. ( $50 / 60 \mathrm{~Hz}$ ) | 230 A.C. ( $50 / 60 \mathrm{~Hz}$ ) | $24 \mathrm{D} . \mathrm{C}$. | 230 A.C. (50/60 Hz) | 230 A.C. ( $50 / 60 \mathrm{~Hz}$ ) |
| Curent draw (A) | 2.6 | 2 | 10 max | 2.4 | 2.4 |
| Power (W) | 200 | 230 | 400 | 300 | 300 |
| Manoeuve 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 |
|  | 150/302 | 150/302 | - | 150/302 | 150/302 |
| Operating temperature ( $\mathrm{C}^{(C / F)}$ | $-20^{\circ} \mathrm{Cto} 55^{\circ} \mathrm{C} \quad-4{ }^{\circ} \mathrm{Fto} 131{ }^{\circ} \mathrm{F}$ |  |  |  |  |

The complete range


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.


Advantages of Bk
The Bk is the top when it comes to service and safety. When total powe performance and reliability are needed, the BK 3-phase technology enable 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.

for gates of up to $800-1,200-1,800-2,200 \mathrm{Kg}$ for gates of up to $1,760-2,640-3,970-4,850 \mathrm{lb}$


Dimensions

$$
\begin{aligned}
& 230-400 \mathrm{~V} \\
& 3 \text {-phase }
\end{aligned}
$$

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.

notes:
To activate the release device of item 001BK-1200P, you will need a SECOND radio frequency
card of the same series as the card of the same series as the
automation's radio command (Except tor AF30 - AF40)

| Tppe | BK-800 | BK-1200] | BK-1200P | K-1800/E | BK-2200] | BK-2200T |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Protection rating | IP54 | 1 P54 | IP54 | IP54 | 1P54 | IP54 |
| Power supply ( 5 (50/60Hz) | 230 A.c. | 230 A.C. | 230 A.C. | 230 A.C. | 230 A.C. | 230-400V A.C. 3-phase |
| Motor power supply ( $)^{(50 / 60 \mathrm{~Hz}}$ ) | 230 A.C. | $230 \mathrm{AC}$. . | 230 A.C. | 230 A.C. | 230 A.C. | 230-400V A.C. 3-phase |
| Current draw (A) | 4.5 | 3,3 | 3,3 | 4,2 | 5,1 | 1.5 |
| Power (W) | 520 | 380 | 380 | 480 | 580 | 600 |
| Manoeuvre speed (m/min - -t/s) | 10.50.57 | 10.50.57 | 14.50,79 | 10.50.57 | 10.5/0.57 | 10.50.57 |
| Duty cycle (\%) | Intensive use | 50 | 30 | 50 | 50 | 50 |
| Thust (N) | 800 | 850 | 850 | 1150 | 1500 | 1650 |
|  | 150/302 | 150/302 | 150/302 | 150/302 | 150/302 | 150/302 |
| Operating temperature ( ${ }^{\circ} \mathrm{C} /{ }^{\circ} \mathrm{F}$ ) |  |  | $-20^{\circ} \mathrm{C}$ to $55^{\circ} \mathrm{C}$ | $-4^{\circ} \mathrm{Fto} 131{ }^{\circ} \mathrm{F}$ |  |  |

The complete range


## Complete automation systems with 230 V A.C. motor

$$
\begin{array}{|l|l|}
\hline 001 \mathrm{BK}-800 & \begin{array}{l}
\text { Automation system completet with control board, radio decoder and mechanical endstops } \\
\text { for sliding gates of up to } 800 \mathrm{Kg} / 1,760 \mathrm{lb} \text {. }
\end{array} \\
\hline \text { 001BK-1200 } & \begin{array}{l}
\text { Automation system complete with control board, radio decoder and mechanical endstops } \\
\text { for sliding actes of fo to to } 1.200 \mathrm{Kg} / 2.60 \mathrm{lb}
\end{array} \\
\hline
\end{array}
$$ for sididing gates of up to $1,200 \mathrm{Kg} / 2,640 \mathrm{lb}$.


001BK-1800 Automation system complete with control board, radio decoder and mechanical Automation system complete with control board, radio
endstops for sliding gates of up to $1,800 \mathrm{Kg} / 3,970 \mathrm{lb}$.
001BK-2200 Automation system complete with control board, radio decoder and mechanica endstops for sliding gates of up to $2,200 \mathrm{Kg} / 4,850 \mathrm{lb}$ with module 6 pinion. 001BKE-1200 Automation system complete with control board, radio decoder, encoder-based
movement control for sliding gates of up to $1,200 \mathrm{Kg} / 2,640 \mathrm{lb}$ and $13 \mathrm{~m} / 42^{2} 7$ 001BKE-1800 Automation system complete with control board, radio decoder, encoder-based

001BKE-2200 Automation system complete with control board, radio decoder, encoder-based movement control for sliding gates of up to $2,200 \mathrm{Kg} / 4,850 \mathrm{lb}$ and $13 \mathrm{~m} / 42^{\prime} 7$ " with module 6 pinion.
Automation system with $230-400 \mathrm{~V}$ A.c. 3 -phase
001BK-2200T Operator with module 6 pinion.

## Control panels for $230-400 \mathrm{~V}$ A.c. 3 -phase operator

002ZT6 Control panel with built-in radio decoder and self-diagnosing safety devices.

## 002ZT6C $\begin{aligned} & \text { Control panel, complete with safety block and buttons, including a built-in radio decoder } \\ & \text { and self-diagnosing safety devices. }\end{aligned}$

## Accessories

001 R001 Lock cylinder with DIN key
001B4353 Chain transmission device.


| 009CCT | $1 / 2$-inch simple chain for B4353 |
| :--- | :--- |
| OO9CGIU | Joint for $1 / 2$-inch chain. |



| 009CGZ | Galvanized rack in rolled steel $-22 \times 22 \mathrm{~mm}$, module 4. |
| :--- | :--- |
| 009 CGZS | Galvanized rack in rolled steel $-30 \times 8 \mathrm{~mm}$, module 4 <br> with securing holes and spacers. |
| 009 CGZ6 | Galvanized rack in rolled steel $-30 \times 30 \mathrm{~mm}$, module 6. |
| Accessories | Access control pages $160-165$ <br> Safety pages $166-175$ |

## Вy-3500T <br> 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 $3,500 \mathrm{Kg} / 7,720 \mathrm{lb}$.

$$
\begin{aligned}
& \text { Theentery suray. riable } \\
& \text { The sturdy and reab tyife the CAME } \\
& \text { Bhiosophy. The motor ivil } \\
& \text { meet even to most exacting } \\
& \text { demands. }
\end{aligned}
$$

Total auto-control. Before actually opening or
closing the gate, the electironiss checks the proper
functioning of al of the tunctioning of all of the
system's saferty devices.


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 $3,500 \mathrm{Kg} / 7,720 \mathrm{lb}$.
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
Max weight of gate leaf (Kg)
for gate leaves of up to 3.500 Kg
 intensive service even under heavy duty working intensive service even under heavy duty working
conditions such as armoured gates or hangar doors.

3-phase



The complete range


## Complete automation with 230-400V 3 -phase motor

001 BY -3500T Automation system complete with control board, radio decoder and mechanical endstops Automation system complete with control boara, radio decoder an
for sliding gates of up to $3.500 \mathrm{~kg} / 7,720 \mathrm{lb}$ with module 6 pinion.

Accessories
009CGZ6 Galvanized rack in rolled steel $-30 \times 30 \mathrm{~mm}$, module 6 .

001BRC15 Power cable collector device for sensitive safety-edges for sliding gates up to $15 \mathrm{~m} / 49^{\prime} 2^{\prime \prime} \mathrm{ft}$ in length.

001BRCP Aluminium profile for extension $L=5.10 \mathrm{~m} / 166^{\prime \prime}$ " ft to couple with a BRC15. Application example: on a 15 metre sliding gate set up $1 \times \mathrm{BRC} 15$ and $3 \times \mathrm{BRCPs}$.


A world of safe automation


CAME
Sectional and overhead garage door operators

## 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.


Pre-installation checks


Recommended use of transmission guide


Sectional and overhead garage door operators

| OPERAAORS - SERRIES |  |  |  |
| :--- | :--- | :--- | :--- |
|  |  |  |  |

## 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.


## If using EN12

If using EN12445 - EN12453 tested operators and control panels (highlighted with the green EN Tested mark), then individual installation the engineer responsible) are compliant with the parameters dictated by the Standards.


$\begin{aligned} & \text { The V201 adaptor arm is necessary when } \\ & \text { using the Ver series on counterweighted }\end{aligned}$
overhead doors and in all doorsweithted fith
$\begin{aligned} & \text { vertical runner guides. The installation } \\ & \text { requires riveting or bolting directly on }\end{aligned}$
$\begin{aligned} & \text { requires riveting or bolting directly on the } \\ & \text { overhead door's reinforcring crosspieces. }\end{aligned}$

## 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.

## EN 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

```
A Operator
B TX Infrared photocells
C RX Infrared photocells
E Safety sensitive edge
Flashing light
Alashing ligh
G Antenna
(H) Selector switch (key - code - card)
1) Cord-operated release device
X Shunt box
```


## Ver

Sectional and overhead garage door operators Automation ready in minutes. 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 24 V powered, which guarantees safety and reliability.

 of impact forces.


## 24V) 24 Volt only

Ver 24 V technology allows for total control of the gate 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 hat can be directly applied to the door's standard handle. It comes ar a lote with a courtesy light to aid parking on those dark winter nights.
complete with a courtesy light to aid parking on those dark winter nights.

Dimensions

## EN



## Technical features

| Tppe | V700 |  | V900E |
| :---: | :---: | :---: | :---: |
| Protection rating | 1 P 40 |  | 1P40 |
| Power supply ( ( $50 / 60 \mathrm{~Hz}$ ) $^{\text {a }}$ | 230 A.C. |  | 230 A.C. |
| M Motor power supply () | $24 \mathrm{D.C}$. |  | $24 \mathrm{DC}$. . |
| Currentdraw (A) | 11 Max |  | 6 Max |
| Power (M) | 260 |  | 130 |
| Manoeuvere speed $90^{\circ}$ (s) | 6 |  | 6 |
| Duty cycle (\%) | 50 |  | 50 |
| Traction force ( N ) | 850 |  | 500 |
| Operating temperature ( $\mathrm{C}^{( } /{ }^{\circ} \mathrm{F}$ ) | $-20^{\circ} \mathrm{C}$ to $55^{\circ} \mathrm{C} \quad-4{ }^{\circ} \mathrm{Fto} 131{ }^{\circ} \mathrm{F}$ |  |  |

The complete range



A world of safe automation


## Parking Barriers

CAME


## 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. 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
B $T X$ Infrared photocells
C RXInfrared photocells
F Flashing light
G Antenna
(H) Selector switch (key - code - card)
(I) Bar with luminous cord
L) Rack
(I) Induction Loop Sensor


Special accessories: joint for bar


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

Also for pay-to-park systems


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

## 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 mith only one lane





## 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 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
B $T X$ Infrared photocells
C RX Infrared photocells
(F Flashing light
G Antenna
(H) Selector switch (key - code - card)
(I) Floor-level chain-protection guide
L Bollard with counterweights and chain coupling


## 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


[^0] Unipark is a smart automation that combines
easy installation and user-fritandiliness within
a solid. resistant structure It offers maximum a solid, resistant structure. It offers maximum
safery to the user thanks to to e amperometric sensor which detects any obstacles.

## GARD2S kit

Complete 230V A.C. barrier kit for road widths of up to 2.5 metres Qty 001G0251 Aluminium bar. 2.7m long 1
1
1
1

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


## GARD6S kit

Complete 24V D.C. barrier kit with square barrier arm. For road widths of up to 6.5 metres


001DOC-I Pair flush mount photocells 001DOC-LN Column for photocell (black) arm kit is NOT installed. Please choose the tubular arm version (below) instead

Coser

## GARD6T kit

Complete 24V D.C. barrier kit with tubular barrier arm. For road widths of up to 6.5 metres

Qty


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

## GARD4S kit

1
complete $24 V$ D.C. barrier kit with square barrier arm For road widths of up to 4 metres
 arm kit is NOT installed. Please choose the tubular arm version (below) instead.

## GARD4T kit

Complete 24V D.C. barrier kit with tubular barrier arm For road widths of up to 4 metres

|  | Qty |
| :--- | :--- | :--- | :--- | :--- |

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.



## G424VST 24v kit

Standard 24V D.C. Gard4 barrier kit
for road widths of up to 3.75 metres



## G4230DX 230v kit

Deluxe 230V A.C. Gard4 barrier kit
for road widths of up to 3.75 metres
Qty

001G4041Z 230v barrier unit
with built-in control panel - 001 ZG5 001G03750 4 m barrier arm with soft profile 001G06080 55 mm balancing spring (RED) 001G02807 Fixed support for bar 001G02809 Pack of 20 red sticker strips

| 001G02801 Flashing light | 1 |
| :--- | :---: |
| 001DIR10 Pair of safety photocells | 1 |
| 001 G02802 Support bracket for photocells | 1 |
| 001G02803 Lighting strip for bar | 9 m |
| 001G02804 Lighting strip cable | 1 |

## G424VDX 24v kit

Deluxe 24V D.C. Gard4 barrier kit
for road widths of up to 3.75 metres
 001G4040Z 24v barrier unit
with built-in control panel - 001ZL38 001 G03750 4 m barrier arm with soft profile 001G06080 55mm balancing spring (RED) 001 G02807 Fixed support for bar 001G02809 Pack of 20 red sticker strips
oty


| 001 G02801 Flashing light |
| :--- |
| 001DIR10 Pair of safety photocells |
| 001G02802 Support bracket for photocells |
| 001G02803 Lighting strip for bar |
| 001G02804 Lighting strip cable |

## G6230ST 230v kit

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

## G624VST 24 v kit



001G02807 Fixed support for bar 001 G06080 55 mm balancing spring (RED) 1 001G04060 50 mm balancing spring (GREEN) ${ }^{1}$

## G6230DX 230 v kit

Deluxe 230V A.C. Gard8 barrier kit
for road widths of up to 5.6 metres
Qty
001G02809 Packs of 20 red sticker strips 001DIR10 Pair of safety photocells 001G02802 Support bracket for photocells 001 G02803 Lighting strip for bar 001G02804 Lighting strip cable 001G02801 Flashing light


Qty
001 G2081Z 230 v barier unit with built-in control panel - 001ZG5 001 G06000 Aluminium bar. 6 m long 001G06080 55mm balancing spring (RED) 001G04060 50 mm balancing spring (GREEN) 001G02807 Fixed support for bar

## G624VDX 24v kit

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

001 G2080Z 24 v barrier unit
with built-in control panel - 001 ZL38 001 G06000 Aluminium bar. 6 m long 001G06080 55 mm balancing spring (RED) 001G04060 50 mm balancing spring (GREEN) 001G02807 Fixed support for bar


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



## G824VST 24v kit

Standard 24V D.C. Gard8 barrier kit

for road widths of up to 7.6 metres
oty


001G02807 Fixed support for bar 001G06080 55 mm balancing spring (RED) 001G06803 Arm section connecting joint

Qty
1
2

## Parking barriers



[^1]Radio control pages 176-189

001 G2080Z 24V barrier unit
with built-in control panel - 001ZL38 001G04000 Aluminium bar. 4m sections 001 G06080 55 mm balancing spring (RED) 001G06803 Arm section connecting joint 001G02807 Fixed support for bar


001 GO2809 Packs of 20 red stickers strips 001DIR10 Pair of safety photocells 001G02802 Support bracket for photocells 001 G02803 Lighting strip for bar 001 G02804 Lighting strip cable 001G02801 Flashing light

Qty ${ }_{1}$

- Gard

Parking barriers
The fast automatic barriers.
For road widths of $2.5 \mathrm{~m}, 4 \mathrm{~m}$ 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 The verastile solution.
The Gard esies bariers
he The instaraled on oither the right or $\begin{aligned} & \text { leff of the roadway } \\ & \text { Installation is quick and }\end{aligned}$ easy, and no pre-assembly is required.


Advantages of Gard
Easy to install, they come complete with a full range of accessories such as various-section bars, lamps, racks, fixed supports ey do not require any additional assembly and, when installed in conjunction with the appropriate safety accessories, comply with the requirements of modern system engineering.
The G2500 fast opening model is powered by 230 V while the G4000 and G6000 models (including stainless steel versions) are fitted with a 24 V D.C. operator and suitable for intensive use. Once installed, they do not require frequent periodic maintenance.

| Limits to use |  |  |  |
| :---: | :---: | :---: | :---: |
| Model |  |  |  |
| Composition of the bar |  |  |  |
| Standard bar | $2.5 / 8^{\prime 2} 2^{\prime \prime}$ | 4/13' | $6.5 / 2{ }^{\prime}$ |
| Bar with 60403 rubber and G0460 lamps | - | $3.5 / 11^{\prime}$ | 6/20' |
| Bar with 60463 mobile support | - | $3.5 / 11^{\prime}$ | 6/20' |
| Bar with G0003 rubber, G0460 lamps |  |  |  |
| and G0465 rack or G0463 mobile support | . | $2.5 / 82^{\prime \prime}$ | 6/20' |
| Bar with G0465 rack and G0463 mobile support | - | 2/6'5" |  |
| Bar with G0003 rubber, G0460 lamps |  |  | 5.5/ $18{ }^{\prime}$ |
| G0465 rack and G0463 mobile support | - | - |  |
|  |  |  | A.C. $2^{24 V}$ D.C. |

24V) 24 V models

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


The complete range


Dimensions


G2500-G4000-G6000 colour RAL1028

The complete range


The complete range


Gard4
for road widths up to 3.75 m
for road widths up to 12 ft
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.


24V) 24 V models

[^2]
## Technical features



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.


The complete range


Parking barrier with 230V A.c. operator and control panel
001G4041Z Galvanized and painted steel barrier cabinet complete with control panel and fitted to take
additional accessories.


| Accessories for Parking barriers with 24V D.C. operator |
| :--- | :--- |
| 002 LB38 $\quad$ Card for connecting $3 \times 12 \mathrm{~V}$-7Ah emergency batteries. |

001G03751 Emergency battery rack.

## 001 G02808 Mobile support for bars.

Accessories for Parking barrier with 230 A.C. operator
002RSE Enables "Master \& Slave" functionality for a pair of barriers. (for ZG5)
Accessories for Parking barriers with 230V A.C. and 24V D.C. operator

| 001 G02040 | Balancing spring $\varnothing 40 \mathrm{~mm}$ |
| :--- | :--- |
| 001 G04060 | Balancing spring $\varnothing 50 \mathrm{~mm}$ |
| 001 G06080 | Balancing spring $\varnothing 55 \mathrm{~mm}$ |
| 001 G02801 | Dome-shaped flashing light. |
| 001 G02802 | Support for series Dir photocellls. <br> Do not use with barriers with $\mathbf{G 0 4 6 5}$ rack and/or G02808 mobile support. |
| 001 G03750 | White painted semi-oval aluminium bar with slot cover and <br> impact-resistant profiles. Length $=4 \mathrm{~m} / 1311$ " tt. |

## Accessories <br> Access control pages <br> Safety pages 166-175

Radio control pages 176-189

The complete range


Also in stainless steel


Easy maintenance


The control panel is positioned horizontaly on the The control panel is positioned horizontally y the upper
part of the cabinet. ust remove the small dome-shaped Potrer to cain inmed. Justremove the small dome-shaped
cones access when performing any scheduled maintenancoe operations.

## Gard8

Parking barriers
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.


Advantages of Gard8
Designed for larger road widths up to $7.6 \mathrm{~m}(25 \mathrm{ft})$, the Gard series of 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 230 V A.C. motor and the 24 V D.C moto 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.


24V) 24 V models

[^3]
## Technical features



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.



G02040 balancing Spring - 040 mm
-G0400 balancing sping - 050 m

- 606800 balancing spring - 055 mm

Dimensions


Colour
ABINET Grey textured cod. 0530837 - COVER RAL9006


[^4]The complete range


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

002RSE Enables "Master \& Slave" functionality for a pair of barriers. (for ZG5)
Accessories for Parking barriers with 230V A.C. and 24V D.C. operator


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

The complete range


Also in stainless steel


Easy maintenance


Gard12
for road widths up to 12 m

Parking barriers High performance barriers for special applications.
The G12000 model is suitable for large industria 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.


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, oading bays, cargo terminals, motorways and all other applications where ast, safe automation is necessary for large roadways.

lube dar different sections allows a $12 \mathrm{~m} / 40 \mathrm{ft}$ passageway be pened and closed in just 10 seconds, as is often required in loading and unloading situations.

Limits to use
Max width of passage clearance ( $\mathrm{m} / \mathrm{ft}$ ) $12 / 40$

## 24V) 24 Volt only

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.

Technical features

| Type | G12000 |  |
| :---: | :---: | :---: |
| Protection rating | IP54 |  |
| Power supply ( ) (50/60Hz) | 230 A.C. |  |
| Motor power supply () | $24 \mathrm{D} . \mathrm{C}$. |  |
| Current draw (A) | 15 Max |  |
| Power (W) | 300 |  |
| Manoeuvre speed $90^{\circ}$ (s) | 10 |  |
| Duty cycle (\%) | 50 |  |
| Torgue ( (mm) | 600 |  |
| Operating temperature ( ${ }^{\circ} / 1 / \mathrm{F}$ ) | $-20^{\circ} \mathrm{c}$ to $55^{\circ} \mathrm{C} \quad-4{ }^{\circ} \mathrm{Fto} 131{ }^{\circ} \mathrm{F}$ |  |
|  |  | -24V D.C. |

The complete range


Dimensions


Accessories Access control pages 160-16 Access control pages
Safety pages 166-175 Radio control pages 176-189

## Unipark <br> 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.


## 2av 24 Volt only

Unipark's 24 V 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 24 v operator, featuring obstacle detection and movement reversal. Unipark offers long-lasting reliability over time.

Limits to use
$\qquad$ $2.5 / 8^{\prime 2} 2^{\prime \prime} \quad$ 24V D

## Dimensions



Technical features

| [vpe | UNIPARK |  |
| :---: | :---: | :---: |
| Protection rating | 1 P54 |  |
| Power supply ( ( $50 / 60 \mathrm{~Hz}$ ) | $230 \mathrm{AC}$. . |  |
| Motor power supply () | $24 . \mathrm{DC}$. |  |
| Curentdraw (A) | 1.7 Max |  |
| Power (W) | 20 |  |
| Manoeulve time (s) | 10 |  |
| Duty cycle (\%) | Intensive use |  |
| Resistance to crussing (Kg/cm² $/ \mathrm{lb} / \mathrm{m}^{2}$ ) | 2.50.85 |  |
| Colour | RAL 1028 |  |
|  | $-20^{\circ} \mathrm{Cto55}{ }^{\circ} \mathrm{C} \quad-4^{\circ} \mathrm{Fto} 131^{\circ} \mathrm{F}$ |  |

Chain parking barriers 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.


Advantages of CAT
CAT is a unique operator and is available in both the 230 V and 24 V ersions. The great installation flexibility allows for creating automatic chains up to a maximum of 6 metres long with only two boliards and a single chain. One bollard (with built-in control panel and motor) is bained by a chain to the other bollard (with the counterweight). The und guide. C
is easy to install, can be fitted anywhere and does not require any
is easy to install, can be fitted anywhere and does not require any


24 V models

CAT is available with 24 V 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"


Technical features

| rype | CAI-X | CAT-X2 |
| :---: | :---: | :---: |
| Protection rating | IP54 | 1 P54 |
|  | 230 A.C. | 230 A.C. |
| Motor power supply ( $)$ | 230 A.C. $50 / 60 \mathrm{~Hz}$ | $24 . \mathrm{CC}$. |
| Current draw (A) | 2.7 | 20 Max |
| Power (W) | 300 | 240 |
| Manoelve time (s) | 11 | 9-14 |
| Duty cycle (\%) | 30 | Intensive use |
| Traction force (Kg/b) | 50/110 | 50/110 |
| Colour | CABINET Grey textured cod. 0530837 - COVER RAL.9006 |  |
| Operating temperature ( ${ }^{\circ} /$ / $\%$ ) |  |  |

The complete range
230 V A.C. chain barrier


001CAT-X Bollard with built-in operator and control panel.

## 24V D.C. chain barrier

001CAT-X24 Bollard with built-in operator and control panel

Chain barrier bollard


001 CAT-I Bollard with counterweights and chain hooking.

Accessories
002LB38 Card for connecting 3x 12V-7Ah emergency batteries (for CAT-X24).

001CAT-5 $\quad 9 \mathrm{~mm}$ chain for clearances up to 8 m .

001CAT-15 5 mm chain for clearances up to 16 m .

001CAR-2 Floor-level chain-protection guide. Length $=2 \mathrm{~m}$.

001CAR-4 Underground chain-protection guide. Length $=2 \mathrm{~m}$.


A world of safe automation


CAME

Parking systems and access control

| 118 | The range |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |
|  | The models |  |  |  |
|  | The $\mathbf{P s}$ 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. |  |  |  |
|  |  |  |  |  |
|  | 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 |  |  | NTENSVE USE |
|  |  |  |  |  |
|  | Series | Model | Places car |  |
|  | Ps Ps | Barcode Token | 10,000 10,000 | YES YES |
|  | Ps | Easy | - | YES |
|  | Seares | Model | Users |  |
|  | $\underset{\text { Rbm84 }}{\text { Rbm21 }}$ | $\underset{\text { RBM821 }}{ }$ | 5500 500 | Yes |
|  |  | RвM21 |  | - 230 V A.C. |

## Standard installation with MANUAL CASHIER

## TRAINED users and positioned on PUB IC 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 senso
(2) Exit unit
P Entry unit
R Attended manual cashier
(S Free / Full luminous sign

## Standard installation MULTI-FLOORS

TRAINED users and positioned on PUBIIC 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

A Parking barriers
M. Magnetic induction loop sensor

Exit unit
Exit unit
Entry unit
R Antry unit
R Attended manual cashier
Automatic pay-stations


Parking subscriptions

When installed in coniunction with the parking
system, a FREE-FULL sign can notify when parking spaces are availabie. TTis is it espececially
useful in in busy city-centre carparks, as it isefull in busy city-centre carparks, as it avoids
unnecessaraily bococking entrance lanes when full andecessarily blocking entrance lat.


PSC6001 and PSC7001 automatic paystations gives customers the option to
pay by coins and notes. Thanks to the codeded tiket, the PSC7001
can also manage subscribers that use card can also manage subscrib
or transponder key fobs.


The TST01 and TSTO4 cards are specific designed to automatically manage car keyfoos, they assist when managing clie with subscriber membership status.

Ps
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
themal fantold daper. The
paper roll is an ISO standard paper roll is an ISO standard
size, for easier and cheaper Size, for easier and cheaper
renewal of consumables.


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

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


PSC7001
with touch screen
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 efficien 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 custome
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 ff any limits in terms of further development The front panel of the
 and the option to add a 'help' intercom


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.

Technical features

| Tvee | Proiection | Model | Dimensions ( $\times$. $\times$ P P mm | Power supply ${ }^{\text {() }}$ | Maierial Colour |
| :---: | :---: | :---: | :---: | :---: | :---: |
| PSC3000 | 1840 | Automatic castier | $335 \times 1500 \times 452.5$ | $230 \mathrm{A.C} .50 / 6 \mathrm{~Hz}$ | Steel/ cod 0530837 |
| PSE3000 | 1 P 44 | Entrance unit | $445 \times 1500 \times 452.5$ | $230 \mathrm{A.C} .50 / 60 \mathrm{~Hz}$ | Steel/ cod 0530837 |
| PSU3000 | 1 P 44 | Exit unit | $295 \times 1500 \times 452.5$ | $230 \mathrm{A.C} .50 / 60 \mathrm{~Hz}$ | Steel/ cod 0530837 |
| PSM3000 | - | Atended castier station control unit | - | $230 \mathrm{AC}$. . $50 / 60 \mathrm{~Hz}$ | - |
| PSC7001 | $1 P 40$ | Attended castier station control unit | $800 \times 1755 \times 600$ | $230 \mathrm{AC}$. . $50 / 6 \mathrm{~Hz}$ | Steel/ cod 0530837 |
| PC50 | 20 | PC interface | $320 \times 240 \times 145$ | - | ABS |
| PS116 | - | Auxiliary castiers control | $320 \times 240 \times 145$ | - | ABS |
| PSIO1 | - | Auxiliary devices control | $320 \times 240 \times 145$ | - | ABS |
| PSC3 | - | Auxiliary cashier station | $320 \times 240 \times 145$ | - | ABS |
| PSO1 | - | Display | $145 \times 185 \times 40$ | - | ABS |
| RBMP1 | - | Control panel | $320 \times 240 \times 145$ | - | ABS |
| PSSRV | 1P44 | Red/green traficic light | - |  | ABS / Polymethacrlate |
| PSINS | 1 P 44 | Friee / Full sign | $445 \times 1500 \times 452.5$ | - | ABS / Polymethacrlate |
| TST0 - -TT04 | - | Transponder cards | 1507810-7813 | - | - |

Dimensions


PSE3000 PSU3000 PSC3000


[^5]The complete range


The complete range


Signalling accessories
001 PSINS Two-sided FULL-FREE Iuminous sign.


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

Accessories


009SMA
009SMA2 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
 front of the sensor (see above). The subscription can be renewed manually by the system administrator, automaticaly
top up scheme. The customisable touch screen user inerface quides customers through every step of the process.

The standard installation
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 ( $8 \times$ PSC3000 and $8 \times$ 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 o work with keyfobs and transponder cards, allowing subscribers to recharge their own account directly The functions:
Coin and banknote readers are both proorammable for local currenc|. Barcoded tickets are fed into the reader and verified.
User friendly touch screen interface gives
Realtime SMS textsterent interface gives continual feedback and guidance throughout -Can be fitted with an additional 'HELP 'push button, with a direct intercom car park attendant's office.
Users can recharge their subscription 'top-up' cards and keytobs using the automatic paystation. They can
simply wave the proximity card or keytob in front of the transponder sensor, and then increase the balance on their account using one of the available payment options.
L Language selection menu
-The system adminisistrator can sell or use valuable advertising space on the monitor screen

## The Software

simple and userffriendly, the PSS40000 sottware is designed for the complete management of the parking system. The databas
occasional vistors.

## 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 instalatitions such as supermarkets or without the assistance of ac.. This can be extremely usetu in instalations such as supermarkets on hotels, where the parking service might be paid at the cast register when shopping, or the parking
charge might be waivered at teceeption when checking out. It is also a verry useful tool for the mutti-
the charge might be waivered at reception when checking out. It it also a very usefur tool for the mutit
storey car park atendant manager. The top-level configuration can operate up to 16 portable
paystations with a PSIIt 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.

Connection diagram


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.


The GET transponder token.
tokens are the ideal solution tokens are the ideal soly.
for occasional visitors. Besides its exceptional
sturdiness, the token is susceptible to magnetic fields and sun rays, it is small and can be eaa
stored in a wallet.
stored in a wallet.
CAME transponders. and the PCT Tey fob are
specifically designe to specififally designed to
manage parking areas manage Parking areas
where clients have weet monthly or other passes.


PSC6001 with touch screen
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 efficien 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 f any limits in terms of further development. The front panel of the ent and exit units can be customised with extra buttons, payment devices and the option to add a 'help' intercom.


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.

Technical features

| Trpe | Protection | Model | Dimensions ( $\mathrm{B} \times \mathrm{H} \times \mathrm{P}$ ) mm | Power supply () | Material Colour |
| :---: | :---: | :---: | :---: | :---: | :---: |
| PSC4000 | 1 P 40 | Automatic cashier | $335 \times 1500 \times 452.5$ | 230 A.C. $50 / 60 \mathrm{~Hz}$ | Steel/ RAL1028 |
| PSE4000 | 1 P 44 | Entrance unit | $445 \times 1500 \times 452.5$ | $230 \mathrm{AC} ..50 / 60 \mathrm{~Hz}$ | Steel/ /RAL1028 |
| PSU4000 | 1944 | Exit unit | $295 \times 1500 \times 452.5$ | 230 A.C. $50 / 6 \mathrm{~Hz}$ | Steel / RaL1028 |
| PSM4000 | - | Attended cashier station control unit | - | $230 \mathrm{AC},. 50 / 6 \mathrm{~Hz}$ | - |
| PSC6001 | 1 P 40 | Attended castier station control unit | $800 \times 1755 \times 600$ | $230 \mathrm{AC}$. . $50 / 6 \mathrm{~Hz}$ | Steel / cod 0530837 |
| PC30 | $1{ }^{1} 20$ | PC interface | $320 \times 240 \times 145$ |  | ABS |
| PSI16 | - | Auxiliary castiers control | $320 \times 240 \times 145$ | - | ABS |
| PS101 | - | Auxiliary devices control | $320 \times 240 \times 145$ | - | ABS |
| PSC1 |  | Auxiliary castier station | $320 \times 240 \times 145$ |  | ABS |
| PSD1 | - | Display | $145 \times 185 \times 40$ | - | ABS |
| RBMP1 | - | Control panel | $320 \times 240 \times 145$ | - | ABS |
| PSSRV | 1 P 44 | Red/green traficic light | - | - | ABS / Polymethacrlate |
| PSINS | 194 | Free/Full sign | $445 \times 1500 \times 452.5$ | - | ABS / Polymethacrlate |
| TST00 -TSTO4 | - | Transponder cards | 1507810-7813 | - |  |
| get | - | Transponder token | ه 30 | - | ABS |
| Ps5000 | \|P44 | SIMPLIFED automatic paystation | $335 \times 1500 \times 452.5$ | $230 \mathrm{AC} ..50 / 60 \mathrm{~Hz}$ | Steel/ RAL1028 |

Dimensions


[^6]The complete range


## 230V A．C．automati a

001PSE4000 Galvanized and RAL 1028 painted steel entry station complete with proximity card and transponder keyfob reader and GET token dispense

001 PSU4000 Galvanized and RAL 1028 painted steel exit station complete with proximity card and transponder keytob reader and GET token coliector．

$$
\text { 001PSC4000 Galvanized and RAL } 1028 \text { painted steel automatic cashier complete with proximity }
$$ display（No change is given directly，but it prints a receipt）

$\begin{array}{ll}\text { 001PSC6001 } & \begin{array}{l}\text { Automatic paystation，with galvanised and painted cabinet and stainless steel panel with } \\ \text { satin finish．Complete with computer hardware and coin／banknote reader with change }\end{array}\end{array}$ Satin finish．Complete with computer hardware and coi
dispenser．There is no credit card reader in this model

001PSM4000 Attended car park cashier system．Comes complete with control station，management software，display and interface to connect to PC30．

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

001PSI16 Interface to connect up to 16 PSC1 units．

001PSC1 Auxiliary manual cashier．
If combined with a PSSI16 enables implementation of a payment station without a direct connection to a PC

Note：The PS parking system is under continual on－going improvement have the latest product information

The complete range
control accessories
（8）009GET Transponder token．

## Signalling accessories

001PSINS Two－sided FULL－FREE luminous sign．

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

## 230 V 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

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

## 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 migh 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 alest automatic paystaiton designed to be integrated into the CAME P 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 - Supports customised time-based pricing structure
- Continual on-screen notification of amount owed and change giv
- GSM Diagnostics with real time system status checking mode.
- Intercom ocnenetion to attendant's offife w with HELP'
- Sutton is is available on request.
- Subscriber management through cards, TAGs or transponder keytobs, which can all be
recharged directly at the paystation. - recharged directly at the pay
-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 instalalations such as supermarkets or hotets, where the extremely useful in installations such as supermarkets or hotels, where the
parking service might be paid at the cash reister when shopping, or the parking service might be paid at he cash register when shopping, or the
parking charge might be waivered at reception when checking out. It
 top-level configur
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 moito
 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
 cards already in the system.

Connection diagram


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.

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.


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.


## Stand alone



Limits to use
Max number of users
Dedicated software
Use without PC
Type of PC connection
$\begin{array}{ll}\text { Type of PC connection } \\ \text { Max distance between Rbm21 and PC } & 5 \text { meteres without PC40 (RS2322) - } 1 \text {-,000 }\end{array}$ Max number of connectable sensors $\quad 5$ metes 2 inputs +2 outputs $($ or 2 inputs/sutputs) Relay outputs for automation contro Relay outputis for rautomation conturn Auxiliary Memory card On board warning display Magnebard lopensor VES (ony for transponder cards) O230V A.C.

Technical features

| Type | RBM21 | PC40 | TSPOO | LT001 |
| :---: | :---: | :---: | :---: | :---: |
| Protection rating | 1P54 |  | IP54 |  |
| Power supply ( | 230 A.C. $50 / 60 \mathrm{~Hz}$ | 24 D.C. from RBM21 | from RBM21 | from RBM21 |
| Dimensions (mm) | $320 \times 240 \times 145$ | $117 \times 75 \times 26$ | $70 \times 70 \times 70$ | $90 \times 28 \times 27$ |
| Operating temperature ( $\mathrm{C}^{( } /{ }^{\circ} \mathrm{F}$ ) |  | $-20^{\circ} \mathrm{c}$ to $55^{\circ} \mathrm{C}$ | $-4 . \mathrm{F}^{\text {to }} 131$ ¢ ${ }^{\text {F }}$ |  |

The complete range


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 ( $25.4 \mathrm{~mm}=1 \mathrm{in}$ )


## The software

The dedicated software features a simple, user-friendly graphical interface. It runs on all versions of Wystows and does not require any specia hardware. The system can be easily configured according features a "deductible credit"" access moded, where values may be adiusted 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
Crediti s 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
cearis are deducted from the user's card based on the amount of time spent within the facility. - Card any time time the

At any time the card's operation may be blocked within the system.
At any time a
Antipassback
This prevents

- Antis prevents more thack

With this function the card is nomally cleared again on evin

## Parking Control

RBM21 can be used to control accesss to private, apartment block or company car parks, which are expressly reserved for members, residents or staff members only, This appication also includes the possibility of using extermal signage to inform users about availabie


## connection diagram



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 Rowerful microprocessor.
The RBMA4 is managed bya
dedicated microprocessor.
 reat-ime sotware, processes
the assigned permisions, for
access to accesss to the controlled area.


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 The dedicated software registers user traffic throughout the premises and manages any customised clearance levels depending on how each manages any customised clearance levels depending on how each
individual user has been programmed into the system.


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



Technical features


The complete range


## Control accessories for proximity cards

001TSP00 Transponder sensor
-8. 001 WA01 $\begin{aligned} & \text { Home automation transponder sensor with built-in } 433,92 \mathrm{MHz} \text { "stand-alone" transmitter } \\ & \text { (Max } 200 \text { users). }\end{aligned}$

```
Nies and transponder cards
```

001 TST01 Proximity card - ISO7810 - 7813 format.
001 TST04 Re-writable proximity card - ISO7810-7813 format.009PCT Proximity key fob.
$\Leftrightarrow$
009TAG Glass transponder bulb for TSPO1
Glass transponder bulb for TSPO1
(It can be housed on TOP-432NA - TOP-434NA - TOP-862NA TOP-864NA - Atomo - Twin - Touch).

The complete range


The complete range

## $433,92 \mathrm{MHz}$ transmitters

001TAM-432SA 2 channel multi-user transmitter. 16,777,216 combinations with self-learning.

001T432 2 channel multi-user transmitter. 16,777,216 combinations.

001 T434 4 channel multi-user transmitter. 16,777,216 combinations.

001T438 8 channel multi-user transmitter. $16,777,216$ combinations.
$433,92 \mathrm{MHz}$ rolling code transmitters
001AT01 One-channel rolling code transmitter. 4,294,967,896 combinations.

001AT02 2 channel rolling code transmitter. 4,294,967,896 combinations.

```
001AT04 4 channel rolling code transmitter. 4,294,967,896 combinations.
01AT04 4 channel rolling code transmitter. 4,294,967,896 combinations.
```


## $433,92 \mathrm{MHz}$ transmitters with KEY CODE

001 TWIN2 2 channel multi-user transmitter 4,294,967,896 combinations with KEY CODE. (Twin transmitters can be used only with standard coding, compatible with the Tam series).

001TWIN4 4 channel multi-user transmitter $4,294,967,896$ combinations with KEY CODE. (Twin transmitters can be used only with standard coding, compatible with the Tam series).

## Accessories

001TOP-A433N Antenna

001TOP-RG58 Antenna cable.

001P3V Package of $2 \times 3$ V D.C. CR2016 lithium batteries (for Atomo and Twin series)
001P3VB Package of $2 \times 3$ V D.C. CR1620 lithium batteries (for TAM-432SA)

## 需

$433,92 \mathrm{MHz}$ receivers
001AF43S Plug-in radio frequency card.
5e需


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 ( $25.4 \mathrm{~mm}=1 \mathrm{in}$ )


## The software

The dedicated software features a light, easy-to-use graphic interface

## Functions \& Features:

- Prepaid time
- Selected times
- Card insertion from PC
- Parking function
- Anti-passbback at en
- Antipassbback timer
- Flow history
- Direct automation system command - Difterentiated user control (throung groups
- Automatic opening of facilities at pre-set times
- Total block of the system from P
- Secure password protection - Synchronization of the state of the facilities


## Connection diagram





A world of safe automation


CAME URBACO

Automatic
Retractable Bollards


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.


## 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 weathe 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 specially treated 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).

Lower shipping costs
easier storage and transportation. Made from $1.5 m$ thick foundation casing (above, right) can be assembled
on-site in ust 10 minutes on-site in just 10 minutes. It
is practical to install thanks to its reduced weight, yet to its reduced weight, yet
remains extremely durable.
 ensure pedestrian saferty during operation.
 Innovations in design mean that Luxor is lighter, more affordable and
easier to install than its predecessors, without compromising security. easier to install than its predecessors, without compromising security.

Dimensions



The complete range


Automatic retractable bollards (supplied with folding foundation casing)
$\begin{array}{ll}\text { BPLUXE60LC } & \text { Luxor pneumatic bollard. } \\ \text { BPLUXE80LC } & \text { Comes with found }\end{array}$
$\begin{array}{lll}\text { BPLUXE80LC } & \text { Comes with foundation casing to suit (see below), 25m of air hose, zinc coating } \\ \text { BPLUXF60LC } & \text { and powder coated paint finish (available in } 6 \text { RAL colours). Fitted with fail OPEN }\end{array}$ BPLUXF80LC $\begin{aligned} & \text { and powder coated paind finish (available in } 6 \text { RAL colours). Fitted with fail OPEN } \\ & \text { security device as standard, which allows bollard to drop in the event of a power cut. }\end{aligned}$ $\begin{array}{ll}\text { BPLUXFOGLC } & \text { Switching cable not included. } \\ \text { BPLUXG60LC } \\ \text { BPLUX80LC } & \text { Note: Al bollards, if not in stock, have a delivery schedule of } 4-8 \text { weeks. }\end{array}$

Folding foundation casings. The correct foundation case is supplied with the 'LC'
codes above. codes above.
Made from 1.5 mm thick galvanised steel, the new foundation cases are essential to guarantee a simple, successtul installation. They are delivered 'flat packed', which to assemble on site.

## Accessories

BOEVB-LUX Fail SAFE security device.
Bollards remain in the UP position in the event of a power failure.


U100 Control panel for one access and one or two pneumatic retractable bollards.
U200 Control panel for two accesses and up to eight bollards (dependant on size).


Dimensions of the bollard (mm) - see diagram


## 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.


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 0 -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 pain 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 11 mm 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.
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.



| Type | Cylinder | Athéna | Acroople | Chateanneuf | Vendöm |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Material | Cast Steel | Cast Steel | Cast Steel | Cast Steel | Cast / Stainles |
| Bollard head thickness | 11 mm | 11 mm | 11 mm | 11 mm | 13 mm |
| Height above ground | 500 mm or 750 mm |  |  |  |  |
| Bollard diameter | $120 \mathrm{~mm}, 200 \mathrm{~mm}$ or 250 mm |  |  |  |  |
| Tested durability | 4.5 million operation cycles |  |  |  |  |
| Impact resistance (Joules) | up to 9000 (depenending on height and diameter f follarc) |  |  |  |  |
| Operating temperature ( ${ }^{\circ} /$ / $\%$ ) | $-10^{\circ} \mathrm{C}$ | $14^{\circ} \mathrm{Ft} 0131^{\circ} \mathrm{F}$ | Mote: an intema heate | eif installing in | y exposed areas) |

The complete range


## Technical Centres

For Automatic Retractable Bollards
Flexible control options.
For all automatic rising bollard 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




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 10 mm automatic bollard air line supplied with al 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 aafety loops and detectors.

Technical features

| chincal Contol Centie | Cu0011pP | CU0011PPR | CC6U200PR | PRS |
| :---: | :---: | :---: | :---: | :---: |
| Cabinet Material | 1.5 mm thick steel | 1.5 mm thick steel | 1.5 mm thick steel | 1.5 mmm thick steel |
| Surface Finish | RAL 7035 (grey). Phosphatation, passivation, neutraisation and polyester coating of 60 um by electro-stait powdering. |  |  |  |
| Protection rating | PP44 (control panel is P1P54) | P444 (control pane is P1P54) | IP44 (control panel is P54) | 1P44 (control panel is P554) |
| Power supply () | $230 V$ A.C. (2 P+E) | 230 V A.C. (2 P+E) | $230 V$ A.C. (2 P+E) | 230 V A.C. (2 P+E) |
| Dimensions (mm) | H600 < L $400 \times \mathrm{x} 260$ | H800 < L600 xW 260 | H $600 \times 1800 \times w 300$ | H600 < L $800 \times \mathrm{w} 300$ |
| Weight (Kg) | - | - | - | - |
| Ventiation | Natural | Natural | Natural | Natura |

The complete range


## Sound-Proofing

Compressors and control centres shown on thes pages are NOT SILENT when operating. Urbaco compressors can reach up to 66ab during operation. Noise output can be reduced by fitting sound
insulation inside the ocntrol centre cabinet. insulation inside the ocntrol centre cabine.
Please call us on 01159210430 to discuss your requirements.

| Limits to use |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Freatues | Cu0011PP | Cu00111PPR | CCOU200PR | CCGUL200PR |
| Max no. of small pneumatic bolards | 4 | 6 | 8 | 8 |
| Max no. of large preumatic bollards | 2 | 3 | 4 | 4 |
| Operation intermittence | 50\% (15 mins | 15 mins OFF) | 40\% | 40\% |
| Shock index | 1 k 10 (1kg at 50 cm ) |  |  |  |
| Min operating temperature ( ${ }^{(C / P / F}$ ) | $-10^{\circ} \mathrm{C} / 14$ ¢ (Note: an interna heater kitis avaliabe if incessary) |  |  |  |
| Max operating temperature ( ${ }^{\circ}$ (/PF) | $55^{\circ} \mathrm{C} / 13{ }^{\circ} \mathrm{F}$ |  |  |  |
| 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 |  |
|  |  |  |  | O230V A.C |



A world of safe automation


CAME

## Accessories



## 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

| Series | transmitters |  |  |  | - Approved devices. systems are approved foruse in both European and non-European countries. |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Model | Number of ikys | Frequency (MHz) | Features |  |
| Atomo | ATO1 | 1 | 433,92 roling code | - •• |  |
| Atomo | ATO2 | 2 | 433,92 rolling code | - - - |  |
| Atomo | AT04 | 4 | 433,92 rolling code | $\bullet \bullet \bullet$ |  |
| Tam | T432 | 2 | 433,92 | - - - |  |
| Tam | T434 | 4 | 43,92 | $\bullet \bullet \bullet$ |  |
| Tam | T438 | $4+4$ | 433,92 | $\cdots \bullet$ |  |
| Tam | TAM-432SA | 2 | 433,92 | $\bullet \bullet \bullet$ |  |
| Tfim | T152 | 2 | 30,900 | $\bullet \bullet \bullet$ | - Self-learning of the radio |
| Tfm | T154 | 4 | 30,900 | $\bullet \bullet$ | code "from the transmitter |
| Tfim | T158 | 4+4 | 30,900 | $\bullet \bullet \bullet$ | to the receiver". |
| Top 43,92 | TOP-432NA | 2 | 433,92 | - ••• | This function allows the |
| Top 433,92 | TOP-434NA | 4 | 433,92 | $\bullet \bullet \bullet$ | receiver to memorise the |
| Top 43,92 | TOP-432A | 2 | 433,92 | - - |  |
| Top 433,92 | TOP-434A | 4 | 433,92 | - |  |
| Top 43,92 | TOP432S | 2 | 433,92 | $\bullet \bullet$ |  |
| Top 888,35 | TOP-862NA | 2 | 868,35 | - •• |  |
| Top 868,35 | TOP-864NA | 4 | 868,35 | $\bullet \bullet \bullet$ |  |
| Top 30,900 | TOP-302A | 2 | 30,900 | - | - Self-learning of the radio |
| Top 30,900 | TOP-304A | 4 | 30,900 | - - | code "from transmitter to |
| Top 30,900 | TOP-3022M | 2+2 | 30,900 | $\bullet \bullet$ | transmitter". |
| Touch | TCH-4024 | 4 | 40,685 | $\bullet \bullet \bullet$ | trassmitter to copy onto a |
| Touch | TCH-4048 | 4+4 | 40,685 | $\bullet \bullet \bullet$ | new one. It permits the |
| Twin | Tw02 | 2 | 433,92 | $\bullet \bullet \bullet$ | creation of transmitters with |
| Twin | Tw04 | 4 | 433,92 | - •• | the same code. |



- Multi-user system.
Adifferent code can be
associated to each butto associated to each button
the transmiter This gives the transmitter. This gives
control over independent systems, even within t.
same effective range.



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


Main features


Application schemes for swing gates and Parking barriers


```
Example of 
Mpotocells.
\(A=D B C 01\) receiver
\(B=D B C O 1\) transmitter
\(C=D B C O 3\) repeater
\(D=D B C 04\) repeater
```

Dir: The synchronised photocell


Example of perimeter coverage on a Parking barier with Wireless
photocells.
$\mathrm{A}=\mathrm{DBCO1}$
Photocells.
$A=D B C 01$ reciver
$B=D B C 1$ transmiter
$C=D B C O 3$ reneater
$C=D B C O 3$ repeater
$D=D B C 04$ repeater

Main features


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

Entirely deformable.
Entirely deformable.
Thanks to their patented inanks to their patented
interal mechanism, , $\begin{aligned} & \text { t. } \\ & \text { saferty edges are are deformable }\end{aligned}$ safety edges are deformable
along theirentire length and along their entire elengh and
have no rigid parts. This guarantees top protective


Application schemes for sliding gates


Example application of the Db+Df integrated system on a sliding gat. $A=$ Pair of photocells - DBSO1 (TX)
$B=$ Pair of DBSOO h hotocells (RX)
$C=$ Additions
$C=$ Additional DBCT transminiting module
$D=$ Sensitive safety edges -Df series

Certified and patented product

The Dr models ane pliance by CAME
and are buit in comple the
12978 and 12978 and $\mathrm{EN} 954-1$ European
Standards Standards, providing systems that
always certified and compliant.


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

[^7]Wave
Home automation 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.


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, fo 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 atternatively, by transponder cara.
Possibility to connect to the WI08 to control up to 8 WA02s.

- Possibility to connect the WA01 to the RBM84 access control

Dimensions

## Stand alone

and access control The WAVE can also function as an access control
system, the WA01 allows for the programming of 200 system, the WA01 allows for the programming of 200
users and integrates a proximity reader to facilitate users and integrates a proximity reader to tacilitate
access. To expand the system further the WAO can be combined with an RBM84 to provide a more complete access control solution.

Technical features

| Type | Wa01 | WA02 | wos |
| :---: | :---: | :---: | :---: |
| Protection rating | \|P40 | $1 P 40$ | IP54 |
| Power supply ( ) | 230 A.C. $50 / 60 \mathrm{~Hz}$ | $12 \mathrm{AC}$. . | $230 \mathrm{AC} ..50 / 60 \mathrm{~Hz}$ |
| Frequency (MHz) | 43,92 | 43,92 |  |
| 230V relay range (A) | 1.5 | - | 5 |
| Operating temperature ( $\mathrm{C}^{(C / F}$ \% |  | $-20^{\circ} \mathrm{Cto55} 5^{\circ} \mathrm{C} \quad-4 \mathrm{FFol} 131{ }^{\circ} \mathrm{F}$ |  |
| Material | ABS - PC - PAG - PMMA | ABS - PC - PA6 - PMMA | ABS - PC - PAG - PMMA |

The complete range


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 TSPO1 transponder sensor The TSPOP transponder sensor
allows the user to to tigger the automation $\left.\begin{array}{l}\text { system using } \\ \text { either TSTO1 or TSTO4 }\end{array}\right]$ either TSTO1 or TSTO4
proximity cards, or a termatively
 TAG transponders. Up
passes can be saved.

Also with magnetic key.
The SEM-2 model with The SEM-2 model with
magnetic key lets you use 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

Highy resistant materials. All of the models are made
of die-cast aluminium to be more resistant and
long lasting. The SET long lasting. The SET range
is available in both surface is avaliable in both su
mounted and flush
mounted versions mounted versions.


| Type | SE-I | SEEE/ SET-EN | SETJ | SEEK | SEM-2 | TSP01 | SMA / SMA2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Protection rating | IP54 | IP54 | IP54 | 1 P54 | \|P54 | 1P54 | - |
| Contacts range ( $A-n$ | 1-24 | 1-24 | 3-24 | 3-24 | 1-24 | 5-24 | 5A |
| Max. no. of cards | - | - | - | - | - | 250 | - |
| Operating temperature ( C/ $/ ¢) ~_{\text {a }}$ | $-20^{\circ} \mathrm{C}$ to $55^{\circ} \mathrm{C} \quad-4$ P fo 131 of |  |  |  |  |  |  |
| Material | Alualloy | Alualloy | Alualoy | Alualoy | Alualloy | ABS | ABS |

The complete range

| Selectors | Flush-mounted key switch with aluminium alloy casing and DIN lock cylinder. |
| :--- | :--- |

- 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.
 Al of the models sere built
in diecast aluminium and
it stainless steel for
resistance, durab resistance, durability
reliability over time.
No cables or digging required.
The Solool wireless model is
specifically designed to solve specifically desisned to solve
any installation issues when any instalation issuest when
the setting lacks existing wiring or where it is difificult to position/lay cables.


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 S 9000 wireless version. Employing radio frequency
echnology, 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.


| Type | S5000 | S6000 | S7000 | S9000 |
| :---: | :---: | :---: | :---: | :---: |
| Protection rating | 1 P54 | 1 P54 | 1P54 | 1 P54 |
| Power supply ${ }^{\text {M }}$ | 12-24A.C.-D.C. | 12-24 A.C.-D.C. | 12-24 A.C.-D.C. | 1 battery GP33A 12V D.C. |
| Combinations | 16,777,216 | 1,679,616 | 1,679,616 | 1,562,500 |
| Frequency (MHz) | - | - | - | 43,92 |
| Code ciphers | 8 Max | 6 Max | 8 Max | 8 Max |
| Operating temperature ( ${ }^{\circ} /$ / $/$ F | $-20^{\circ} \mathrm{Cto} 55^{\circ} \mathrm{C}-4 \mathrm{~F}^{\circ} \mathrm{to} 131{ }^{\text {o }}$ |  |  |  |
| Material |  | Alualoy |  |  |

The complete range
Keypad selectors
001 S5000 Galvanized and painted steel surface-mount keypad with illuminated panel. 16,777,216 combinations.

001 S6000 Flush-mounted keypad. 1,679,616 combinations.

001 S7000 Surface-mounted keypad. 1,679,616 combinations.
©
001 S9000 $\quad 433,92 \mathrm{MHz}$ surface-mount radio keypad with 4 storable codes and
programming access password.
Compatible with AF43S - AF43SM - RE432 - RBE4MT radio receiver
Compatible with AF43S - AF43SM - RE432 - RBE4MT radio receivers.
$1,562,500$ combinations ( 390,625 possible combinations for each code.).


001S0001 One-channel card for S5000-S6000-S7000 (1 memorisable code).


001S0004N 4 channel card for 55000 - S6000 - S7000.
Possibility of radio controling the 1st channel. (4 memorisable codes).


001CSS
Natural anodized aluminium post with tamper-proof support for S6000-S9000. Height $=1 \mathrm{~m}$.

001CSSN Black anod
Height $=1$

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.
TTe radio antenna can be
integated and ounted
on either side of the
flashing light.


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
 lashing 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 suppoly () |
| KIARON | 25 | 230 A.C. 50/60 Hz |
| KIAROLX | 6 (XENON) | $230 \mathrm{AC.C} 50 / 60 \mathrm{~Hz}$ |
| KIAROIN | 25 | 230 A.C. 50/60 Hz |
| KIARO241 | 25 | 24 A.C.-D.C. |
| KIARO24N | 25 | 24 A.C.-. .C. |
|  |  | $\bigcirc 230 \mathrm{VAC}$. - |

Technical features

| Type | KABON | KAROIN | KAROLXN | KIARO24N | KARRO24N |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Protection rating | 1 P54 | 1P54 | 1 P54 | 1 P54 | 1 P54 |
| Power supply () | $230 \mathrm{AC}$. . $50 / 60 \mathrm{~Hz}$ | $230 \mathrm{AC}$. . $50 / 60 \mathrm{~Hz}$ | 230 A.C. $50 / 60 \mathrm{~Hz}$ | 24 A.C.-D.C. | 24 A.C.-D.C. |
| Dimensions (mm) | $130 \times 170 \times 76$ | $130 \times 170 \times 76$ | $130 \times 170 \times 76$ | $130 \times 170 \times 76$ | $130 \times 170 \times 76$ |
| Lamp power (M) | 25 | 25 | 6 | 25 | 25 |
| Duty cycle (\%) | 50 | 50 | 50 | 50 | 50 |
| Operating temperature ( ${ }^{\circ} / /^{\circ}$ F) | $-20^{\circ} \mathrm{C}$ to $55^{\circ} \mathrm{C} \quad-4 \mathrm{~F}^{\circ} \mathrm{to} 131{ }^{\circ} \mathrm{F}$ |  |  |  |  |
| Material | ABS - Polycarbonate | ABS - Polycarbonate | ABS - Polycarbonate | ABS - Polycarbonate | ABS - Polycarbonate |
|  |  |  |  |  | VA.C. - 24 V A.C. D. C |

The complete range 230V A.C. flashing lights
 001KIARON Flashing light.

001KIAROLXN Flashing light with xenon lamp.
001KIAROIN Flashing light with manoeuures counter function.


24V A.C.-D.C. flashing lights
001KIARO24N Flashing light.
001KIARO24IN Flashing light with manoeuvres counter function.

## Accessories



## 001KIAROS Wall fixing bracket.

Dimensions


Dimensions in millimetres ( $25.4 \mathrm{~mm}=1 \mathrm{in}$ )

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.


Technical features


The complete range


| Sensitive safety edges |  |
| :--- | :--- |
| 001DF15 | Grey sensitive mechanical safety edge. Length $=1.5 \mathrm{~m} / \mathbf{l}^{\prime} 1^{\prime \prime}$ <br> For use in combination with 001DFI self-diagnosing card. |

001 DF17 | Grey sensitive mechanical safety edge. Length $=1.7 \mathrm{~m} / 5^{\prime} 6^{\prime \prime}$ |
| :--- |
| For use in combination with |

For use in combination with 001DFI self-diagnosing card.
001DF20 Grey sensitive mechanical safety edge. Length $=2 \mathrm{~m} / 6^{\prime} 6^{\prime \prime}$
001DF25 Grey sensitive mechanical safety edge. Length $=2.5 \mathrm{~m} / 8^{\prime 2} 2^{\prime \prime}$
Grey sensitive mechanical safety edge. Length $=2.5 \mathrm{~m} / 8^{\prime} 2$
For use in combination with 001DFI self-diagnosing card.
001CMP Grey rubber and aluminium profile for maximum 6 m long DF sensitive edges.
For use in combination with 001 DFI self-diagnosing card. For use in combination with 001 DFI self-diagnosing card.

001DF20N BLACK sensitive mechanical safety edge (length $2 \mathrm{~m} / 6^{\prime} 6^{\prime \prime} \mathrm{ft}$ ).


| 001 TMF | Set of caps and mechanisms for maximum 4 m long DF sensitive safety edges. |
| :--- | :--- |
| 001 TMF6 | Set of caps and mechanisms for maximum 6 m long DF sensitive safety edges. |
| 001 DFI | Self-diagnosing card for DF electrical connections. |

r
 designed solts safe use. CAME meets these needs with many specificall 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 raise system safety and quality to the highest possible levels.

Limits to use
Max length (n




## 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.


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


| Type | DOC-1 | DOC-E | DIR10- DIR20 - DiR30 |
| :---: | :---: | :---: | :---: |
| Protection rating | 1P54 | IP54 | IP54 |
| Power supply ${ }^{\text {() }}$ | 12-24 A.C.-D.C. | 12-24A.C.- -. . | 12-24 A.C.--..C. |
| Max range (m) | 18 | 18 | 10-20-30 |
| 24V relay Max range (A) | 1 | 1 |  |
| 24V A.C. current draw (mA) | 60 | 60 | 60 |
| Operating temperature ( $0^{\circ} / \%^{\circ} \mathrm{F}$ ) |  |  |  |
| Material | ABS - Polycarbonate | ABS - Polycarbonate | ABS - Polycarbonate |

The complete range



## Dir series accessories <br> 001DIR-S Flush mount casing.

001DIRZ Aluminium alloy impact-proof protection.


```
001DIR-P }\begin{array}{l}{\mathrm{ Natural anodized aluminium extension for DIR-L. H=50 cm post.}}\\{\mathrm{ To apply on double pair of Dir photocells.}} To apply on double pair of Dir photocells.
O01DIR-PN Black anodized aluminium extension for DIR-LN. \(\mathrm{H}=50 \mathrm{~cm}\) post. To apply on double pair of Dir photocells.
```


## Db

Safety accessories Safe, fast, anywhere.
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.


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 | DBCO1 | DBCO3 | DBCO4 |
| :---: | :---: | :---: | :---: |
| Max Range (m) | 10 | 10 | 0. | NOTE: Uses $4 \times 1.5 v$ AAA batteries. min. 1000 mAh. (Supplied separately)

Dimensions


Application schemes


[^8]Example of perimeter
A $=D B C O 1$ receiver
B
$A=D B C 01$ receiver
$B=D B C 1$ transmitter
$C=\mathrm{DBCO3}$ repeater
$\mathrm{D}=\mathrm{DBCO4}$ repeater

## 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


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 equirements 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.

|  | bsot |  |  |
| :---: | :---: | :---: | :---: |
| Max range (m/ft) | $10 / 32^{\prime} 8^{\prime \prime}$ | $10 / 32^{\prime \prime} 8^{\prime \prime}$ | 10/32'8 |
| Max speed at leaf edge ( $\mathrm{m} / \mathrm{min}$ ) (tt/min) | 12/394" | 12/39'4" | 12/39'4' | NOTE: Uses $4 \times 1.5 v$ AAA batteries. min 1000mAh. (Suppled separately) 24V A.C.-D.C

## Dimensions



DBS01 - DBS02

$\stackrel{-}{\text { DBCT }}$


Dimensions in millimetres ( $25.4 \mathrm{~mm}=1 \mathrm{in}$ )

Application schemes


Find in the diagram a
Wireless photocells.
Wireless shotocells.
A = Pair of photoceclls - DBSO1 (TX
B = Pir of thotocells - DBSO
$=$ Parir of photocells - DBSO1 (TT)
$=$ Pair of photocells - DBSO1 (R)
$B=$ Pair of photocells - DBSO1 (R)
$D=$ Safety sensitive edge - Df series
ind in the Find in the diagrann
on a sliding gate.
$A=$ Pair of photoco
$A=$ Pair of photocells - DBSO1 (TX)
$=$ Pair of photocells - DBSO1 (R)
B = Pair of photocells - DBSO1 (RX)
$C=$ Addititional DRCT Transmitting module
$D=$ Sensitive safety edges - Df series

The complete range


Technical features

| Type | DBSO1 - DBSO1 - DBCT |  |
| :---: | :---: | :---: |
| Protection rating | $1 P 54$ |  |
| Power supply () | 24 A.C.-D.C. (RX) |  |
| Batteries () | $4 \times 1.5$ AAA10 (TX) |  |
| Max range (m/tt) | 10/32'8" |  |
| Current draw (mA a 24V A.C.) | 48 (RX) - 70 (TX) |  |
| Operating temperature ( $0 / / \mathrm{F}$ ) | $-20^{\circ} \mathrm{Ct}$ to $55^{\circ} \mathrm{C} \quad-4 \mathrm{efo} 131{ }^{\circ} \mathrm{F}$ |  |
| Material | ABS - Polycarbonate |  |

## 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.


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 greate 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.


Dimensions


Technical features

| Type | AT01 | ATO2 | AT04 |
| :---: | :---: | :---: | :---: |
| Frequency (MHz) | 433,92 | 433,92 | 433,92 |
| Bateries | $2 \times$ CR2016 Lithium | $2 \times$ CR2016 Lithium | $2 \times$ CR2016 Lithium |
| Dimensions (mm) | $32 \times 68 \times 13$ | $32 \times 68 \times 13$ | $40 \times 85 \times 12$ |
| Combinations | 4,294,967,896 | 4,294,967,896 | 4,294,967,896 |
| Operating temperature ( ${ }^{\circ} \mathrm{C} / \mathrm{P}$ \% | $-20^{\circ} \mathrm{Cto} 55{ }^{\circ} \mathrm{C}-4{ }^{\circ} \mathrm{Fto} 131{ }^{\circ} \mathrm{F}$ |  |  |
| Material | ABS | ABS | ABS |
| Weight (9) | 16 | 16 | 22 |

## The complete range



## $433,92 \mathrm{MHz}$ rolling code transmitters.

001AT01 One-channel rolling code transmitter. 4,294,967,896 combinations.
001ATO2 2 channel rolling code transmitter. 4,294,967,896 combinations.
001AT04 4 channel rolling code transmitter. $4,294,967,896$ combinations.
$433,92 \mathrm{MHz}$ rolling code receivers.
001AF43SR Plug-in radio frequency card for Max. 25 transmitters.
001RE432RC 12-24V D.C. IP54 surface mount 2 channel receiver for Max. 25 transmitters.


001RBE4RC $12-24$ V D.C. IP54 surface mount 4 channel receiver for Max. 500 transmitters, complete with 1 AT04 transmitter (master).


Accessories
001TOP-A433N Antenna


001TOP-RG58 Antenna cable

## Tam

Radio remote control system

Elegance, design and technology
for multi-user applications.
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 transmitter


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 contro panels, or external 2 or 4 channel cards (featuring multi-code storing) that re housed in their own separate IP54-rated ABS plastic housing. Th are housed in their own separate IPS4-rated ABS plastic housing. The transmitter codes, thus simplifying multi-user management.


Dimensions


Technical features

| Type | TAM-382SA | T432 | T434 | T438 |
| :---: | :---: | :---: | :---: | :---: |
| Frequency (MHz) | 433,92 | 433,92 | 433,92 | 433,92 |
| Bateries | $2 \times$ CR2016 Lithium | $1 \times 12 \mathrm{VAAA}$ batter | $1 \times 12 \mathrm{VAAA}$ battery | $1 \times 12 \mathrm{VAA}$ battery |
| Dimensions (mm) | $24 \times 68 \times 12.5$ | $45 \times 92 \times 15$ | $45 \times 92 \times 15$ | $45 \times 92 \times 15$ |
| Combinations | 16,777,216 | 16,777,216 | 16,777,216 | 16,777,216 |
| Operating temperature ( ${ }^{\circ} /$ / $\%$ ) |  | $-20^{\circ} \mathrm{Ct} 055^{\circ} \mathrm{C}$ | -4 ¢ fto 1310 F |  |
| Material | ABS | ABS | ABS | ABS |
| Weight (9) | 12 | 44 | 46 | 46 |

The complete range


## $433,92 \mathrm{MHz}$ transmitters

001TAM-432SA 2 channel multi-user transmitter. 16,777,216 combinations with self-learning.
001T432 2 channel multi-user transmitter. 16,777,216 combinations.

001T434 4 channel multi-user transmitter. $16,777,216$ combinations.
001 T438 8 channel multi-user transmitter. 16,777,216 combinations.
$433,92 \mathrm{MHz}$ receivers


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 Pefect tor those commands; Perfect for those
applications where mutt-user apprications where muli-us
functionality is a must. (i.e. apartment buildings)
"Via cable" encoding.
The T432 $-T 434$ and $T 43$ models can be connected 4 ip by cable to the RBEAN
receiver to simplify encod procedures when there are many identical transmitter such as in a residentiad
apartment complex.
 buttons, thanks to the latera selector switch.

Advantages of 30,900 MHz Tfm


The modulated frequency radio signal is generically less sensitive to externa 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.


Technical features

| Type | T152 | T154 | T158 |
| :---: | :---: | :---: | :---: |
| Frequency (MHz) | 30,900 | 30,900 | 30,900 |
| Bateries | $1 \times 12 \mathrm{VAAA}$ batery | $1 \times 12 \mathrm{VAAA}$ battery | $1 \times 12 \mathrm{VAAA}$ batery |
| Dimensions (mm) | $45 \times 92 \times 15$ | $45 \times 92 \times 15$ | $45 \times 92 \times 15$ |
| Combinations | 16,777,216 | 16,777,216 | 16,777,216 |
|  | $-20^{\circ} \mathrm{c}$ to $55^{\circ} \mathrm{C}-4{ }^{\circ} \mathrm{Fto} 131 \mathrm{of}$ |  |  |
| Material | ABS | ABS | ABS |
| Weight (9) | 34 | 56 | 56 |

The complete range

| $30,900 ~ M H z ~ t r a n s m i t t e r s ~$ |  |
| :--- | :--- |
| 001 T 152 | 2 channel multi-user transmitter. 16,777,216 combinations. |
| 001 T 154 | 4 channel multi-user transmitter. 16,777,216 combinations. |
| 001 T 158 | 8 channel multi-user transmitter. 16,777,216 combinations. |


|  | 001 AF150 | Plug-in radio frequency card. |
| :--- | :--- | :--- |
| 001 RBE4N | $12-24 \mathrm{~V}$ A.C.-D.C. IP54 surface mount 4 channel radio module.. |  |
| 001 RBE42 | 230 V A.C. IP54 surface mount 4 channel radio module. |  |



Dimensions


RBE4N - RBE42

## Top

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 The latest TOP series
remotes emit their own
separate cod difen separate code-differentiated
commands; Perfect for those commands: Perfect or those
applications where multi-ser functionality is a must.
(i.e apartment buildings) (i.e. apartment buildings)

## Easy coding. The Top series

 memorise codes from "transmitier toetransmitter through its radio-encodingfunction. 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 lise a proximity card in

 coniuntction with T SPOOOand TSPO 1 devices.


Advantages of Top
Complete with a range of 5 radio transmitters and 6 different receivers, the $433,92 \mathrm{MHz} \mathrm{TOP}$ 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 $868,35 \mathrm{MHz}$ TOP transmitter is a high quality product characterised by its special ergonomic style and refined design. It is

## Limits to use

| Model | Pange (m/ti) |
| :---: | :---: |
| TOP-432NA | 50-150/160'-500' |
| TOP-334NA | 50-150/160'-500' |
| TOP-432A | 50-150/160'-500' |
| TOP-434A | 50-150/160'-500' |
| TOP432S | 50-150/160'-500' |
| TOP-862NA | 50-150/160'-500' |
| TOP-864NA | $50-150 / 160^{-}-500^{\prime}$ |



Dimensions
oent

## Top

Radio remote control system

The digitally encoded transmitter
Top $30,900 \mathrm{MHz}$ 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


Advantages of 30,900 MHz Top The signal emitted by the transmitters of the Top $30,900 \mathrm{MHz}$ 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 cod 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).

Limits to use

Dimensions


Technical features

| Type | T0P-302A | TOP304A | T0P-3022M |
| :---: | :---: | :---: | :---: |
| Frequency (MHz) | 30,900 | 30,900 | 30,900 |
| Bateries | $1 \times 12 \mathrm{VaAas}$ batery | $1 \times 12 \mathrm{VAAA}$ batery | $1 \times 12 \mathrm{VAAA}$ batery |
| Dimensions (mm) | $58 \times 113 \times 23$ | $58 \times 113 \times 23$ | $40 \times 88 \times 20$ |
| Combinations | 1,024 | 1,024 | 1,024 |
| Operating temperature ( ${ }^{\circ} /$ / $\%$ ) | $-20^{\circ} \mathrm{C}$ to $55^{\circ} \mathrm{C}-4 \mathrm{Cfto} 131 \mathrm{~F}$ |  |  |
| Material | ABS | ABS | ABS |
| Weight (9) | 16 | 22 | 30 |

The complete range

## $30,900 \mathrm{MHz}$ transmitters

001TOP-302A 2 channel transmitter 1,024 combinations.
001TOP-304A 4 channel transmitter 1,024 combinations.

001TOP-3022M 2 channel multi-user transmitter 1,024 combinations.

| $30,900 ~ M H z ~ r e c e i v e r s ~$ |  |
| :--- | :--- | :--- |
| 001 AF30 | Plug-in radio frequency card. |
| 001 RE301 | $12-24 V$ A.C.-D.C. IP54 surface mount one-channel receiver |
| 001 RBE4N | 12 -24V A.C.-D.C. IP54 surface mount 4 channel radio module. |
| 001 RBE42 | 230 A.C. IP54 surface mount 4 channel radio module. |

## Accessories

O01TOP-A309N Antenna
001TOP-RG58 Antenna cable.

## 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.


Advantages of $40,685 \mathrm{MHz}$ 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.


Technical features


The complete range


## 40,685 MHz transmitters

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.


40,685 MHz receivers
001AF40 Plug-in radio frequency card.
001 RE402 12-24V A.C.-D.C. IP54 surface mount 2 channel receiver


001RBE4N $12-24$ A.C.-D.C. IP54 surface mount 4 channel radio module.
001 RBE42 $230 V$ A.C. IP54 surface mount 4 channel radio module.


Accessories
001TOP-A40 Antenna
001TOP-RG58 Antenna cable.
009TAG Glass transponder bulb for TSP01.

## Twin

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 administrato The administrator's code
combination is inserted using the dip-switthes. The
code is then activated with code is then activated $w$
the transmitter buttons.

## CODE LOCK protected

 self-learning mode.TWIN allows those the dip-switch code to memorise commands from
"transmitter to to transmitter" thrugh its radio-encoding function. Additional remotes
cannot be cloned without cannot be cloned without
knowing the secret code.
Compatible with Top and Tam. If they are used without Co
Lock, Twin remotes are compatible with 433.92MH compatible with 433.922 Hzz
Top and Tam series receivers.


Advantages of $433,92 \mathrm{MHz}$ 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.

Limits to use


## Dimensions

Technical features

| Type | Twor | Twod |
| :---: | :---: | :---: |
| Frequency (MHz) | 433,92 | 43,92 |
| Bateries | $2 \times$ CR2016 Lithium | 2x CR2016 Lithium |
| Dimensions (mm) | $32 \times 68 \times 13$ | $32 \times 68 \times 13$ |
| Combinations | 4,294,967,896 | 4,294,967,896 |
| Operating temperature ( ${ }^{\circ} / /^{\circ} \mathrm{F}$ ) | $-20^{\circ} \mathrm{Cto} 55^{\circ} \mathrm{C}-4{ }^{\circ} \mathrm{Fto} 131{ }^{\circ} \mathrm{F}$ |  |
| Material | ABS | ABS |
| Weight (9) | 16 | 16 |

The complete range


## $433,92 \mathrm{MHz}$ transmitters with KEY CODE


roling code multi-user transmitter 4,294,967,896 combinations with KEY CODE.

## $433,92 \mathrm{MHz}$ receivers

| 001 AF43TW | Plug-in radio frequency card. |
| :--- | :--- | :--- |
| 001 RE432TW | $12-24 V$ A.C.-D.C. IP54 surface mount 2 channel receiver. |
| 001 RBE4N | $12-24 V$ A.C.-D.C. IP54 surface mount 4 channel radio module. |
| 001 RBE42 | 230 V A.C. IP54 surface mount 4 channel radio module. |



```
Accessories
001TOP-A433N Antenna.
001P3V Package of 2 x 3V D.C. CR2016 lithium batteries
001TOP-RG58 Antenna cable
009TAG Glass transponder bulb for TSP01
```




A world of safe automation
wwweanakkoom


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.


## 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

A Motor
B $T X$ wireless photocells
C TXRX wireless photocells
RX wireless photocells
Fx wireless ph
F Flashing light
G Antenna
(H) Selector switch (key - code - card)

1) Hanging release device




The T438 model allows users the possibility to control you up to ieight devicses from
one remote control. It is extremely usfel in one remotet control. It is is extremely usefut in
industrial contexts where commands often
need to be centralised. It is practical while need to be centralised. II 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

(A) Motor
B $T X$ wireless photocells
C TXRX wireless photocells
(D) Control Panel
(F Flashing light
(G) Antenna
(H) Selector switch (key - code - c
(I) Hanging release device
 The DIR photocells' operation principle
consists of auto-sychronising the infrared beams between receiver and transmitter.
This function allows for multite instalation This function alows for multiple instalation
requirements that are typical in industrial

Touch: the $4+4$ channel quartz remote control


Dir: the synchronised photocel
 settings, where devices
at two different heights.

Magnetic key entry


## 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 individual installation by the engineer responsible) are compliant with the parameters dictated by the Standards.
ind


## Standard issue



## 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
A Motor
B $T \times$ Infrared photocells
C RX Infrared photocells
(D) Control panel
F Flashing light
G Antenna
(H) External cord-operated release
device with command button
(I) Internal cord-operated release deli


External release protected by lock \& key
The control panel for a compliant installation


[^9]| OPERATORS - SERES | F4000 | $\underset{\substack{\text { F4000 } \\ C \cdot B X}}{ }$ $0-\mathrm{BxK}$ | F4024 | $\begin{aligned} & \text { C-BX } \\ & \text { C-BXK } \\ & \text { F4000 } \end{aligned}$ | F4024 | C-BXE C-BXEK | C-BXE24 | C-BXET | C-BXT | $\underset{\substack{\text { Roller } \\ \text { Shuter } \\ \text { H } \\ \hline}}{ }$ Shutter Operato |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CARD - PANEL | ZABC | zMEEC | ZL170N | $\begin{gathered} \text { zo3 } \\ \text { zocs } \end{gathered}$ | ZL19N | $\begin{aligned} & \text { 20x10 } \\ & \text { zex100 } \end{aligned}$ | $\begin{aligned} & \text { ZL.80 } \\ & \text { Z. } 800 \end{aligned}$ | $\begin{gathered} 275 \\ 2 T 5 C \end{gathered}$ | $\begin{gathered} \text { 2T6 } \\ \text { 2TGC } \end{gathered}$ | 2824 |
| FUNCTIONAL FEATURES |  |  |  |  |  |  |  |  |  |  |
| SEL--DIAGNOSIS of active safety devices function |  | $\bullet$ |  | $\bullet$ | - | $\bullet$ | - | $\bullet$ | - |  |
| Opening and Closing PREFLASHHNG function | - | - | - | $\bullet$ | - | $\bullet$ | - | - | - |  |
| REOPENNG Guring Closing function | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | - | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | - |
| RECLOSING during opening function | - | $\bullet$ |  | - |  | $\bullet$ | - | $\bullet$ | - |  |
| Obstacle STALL function |  | $\bullet$ |  |  |  | $\bullet$ | $\bullet$ | $\bullet$ |  |  |
| TOTAL STOP function | $\bullet$ | $\bullet$ | - | - | - | $\bullet$ | $\bullet$ | $\bullet$ | - | - |
| PARTIAL STOP of the gate-leaf function | - | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | - | $\bullet$ | $\bullet$ |  |
| OBSTACLE DETECTION function on photocells | - | $\bullet$ | - | - | - | $\bullet$ | - | - | - |  |
| ENCODER operation |  | $\bullet$ |  |  |  | $\bullet$ | $\bullet$ | $\bullet$ |  |  |
| MOVEMENT CONTROL and obstacle detection device |  |  |  |  |  |  |  |  |  |  |
| AMPPEROMETTIC DETECTION function |  | - | - |  | - | $\bullet$ | - | - |  |  |
| 11 eaf PEDESTRAN OPENNG Gunction |  | - |  |  | - |  |  |  |  |  |
| 1 leaf PARTIAL OPENNG Gunction | - | $\bullet$ |  | - |  | - | - | - | - |  |
| TRANSMITTER OPEN ONLY function | - | $\bullet$ | - | $\bullet$ | - | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ |  |
| OPEN ONLY button connection function | $\bullet$ | $\bullet$ | - | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | - |  |
| CLOSE ONLY button coonection function | $\bullet$ | $\bullet$ |  | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ |  |
| OPEN-STOP-CLOSE-STOP button connection function | $\bullet$ | $\bullet$ | - | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | - |
| OPEN-CLIOSE-REVERSE button coonection function | - | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ |
| MAINTANED ACTION command function | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | - | - |
| 1st leaf DELAYED CLOSING function | $\bullet$ | $\bullet$ |  |  | $\bullet$ |  |  |  |  |  |
| 2st leaf DELAYED CLOSING function | $\bullet$ | $\bullet$ |  |  | $\bullet$ |  |  |  |  |  |
| IMMEDIATE CLOSING function |  |  |  |  |  |  |  |  |  |  |
| EmERGENCY RELEASE function from the remote control |  |  |  |  |  |  |  |  |  |  |
| FLLSSHING LIGHT coonnection | - | $\bullet$ | $\bullet$ | $\bullet$ | - | $\bullet$ | - | - | $\bullet$ | - |
| CYCLE LAMP connection | - | $\bullet$ | $\bullet$ | $\bullet$ | - | $\bullet$ | - | $\bullet$ | $\bullet$ |  |
| COURTESY LAMP coonnection |  | $\bullet$ |  | - |  | $\bullet$ | - | $\bullet$ | - | - |
| Antenna connection | - | $\bullet$ | - | - | - | - | - | $\bullet$ | - | - |
| 24 V ACCESORIES comections | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | - | $\bullet$ | $\bullet$ | $\bullet$ | - |
| OPEN WARNING LGHT comnection | $\bullet$ | $\bullet$ | - | - | - | - | - | $\bullet$ | $\bullet$ |  |
| CLOSED WARNING LIGHT connection |  |  |  |  |  |  |  |  | - |  |
| Contact output for 2nd RADIO CHANNEL | - | - | - | - | - | - | - | - | $\bullet$ |  |
| Adjusting RUNNING TIME | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ |  | - | $\bullet$ | $\bullet$ | $\bullet$ | - |
| EXTRACTABLE, NuMBERED connection terminals | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | - | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ |
| SELF-LEARNNG function of the transmitter's RADIO code | - | $\bullet$ | - | $\bullet$ | $\bullet$ | - | - | $\bullet$ | $\bullet$ | - |
| RAM BLOW function to ad the release of the electrolock | $\bullet$ | $\bullet$ | $\bullet$ |  | $\bullet$ |  |  |  |  |  |
| Adjustable AutoMatic Re-CLOSIIGG TIME function | - | $\bullet$ | $\bullet$ | - | $\bullet$ | - | - | - | - | - |
| ELECTroLOCKELECCTRORELEASE connection output | $\bullet$ | $\bullet$ | $\bullet$ |  | $\bullet$ |  |  |  |  |  |
| OPENING AND/OR CLOSING deceleration |  | $\bullet$ | $\bullet$ |  | - | - | - |  |  |  |
| EmERGENCY-BATTERY operation (optional) |  |  | $\bullet$ |  | $\bullet$ |  | $\bullet$ |  |  |  |
| MASTER-SLAVE operation mode |  |  |  |  |  | - | - | - | - |  |
| Adjustable RunNuNG SPEED AND deceleration function |  | $\bullet$ | $\bullet$ |  | - |  | $\bullet$ |  |  |  |
| Warning DISPLAY |  | $\bullet$ |  |  |  | - | $\bullet$ | - |  |  |
| Electroic BRAKE |  |  |  | - |  | $\bullet$ |  | $\bullet$ | $\bullet$ |  |
| CONTROL and warning led | - | - | - | $\bullet$ | - | - | - | - | $\bullet$ | - |
| SELF-LEARNNG function of the opening and Closing endstops |  |  |  |  |  |  |  |  |  |  |
| O230VA.C. © ${ }^{24 V}$ D.C. ${ }^{\text {2 }}$ 20-400V A.C. 3 -phase |  |  |  |  |  |  |  |  |  |  |

2av F4024 is 24 Volt

24 V technology increases the safety level of the system, since it allows you to adjust the run-speed, enables electronic obstacle detection.

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.


The advantages of the F4000
The F4000 series motors are the ideal solution for medium and large bi folding 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.


Dimensions


目

Technical features


The complete range
230 V A.C. operator
001 F4000 Self-locking operator.

## ${ }^{230 V}$ A.C. control panels



002ZA3C Control panel with radio decoder, emergency stop button, up/down activation buttons and power isolation switch.

002ZC3 Control panel with movement control function, built-in radio decoder and safety device diagnostics.

002ZC3C Control panel with movement control function, built-in radio decoder, emergency stop and Control panel with movement control function, built-in radio decoder, eme
activation buttons, power isolation switch and safety device diagnostics.

002ZM3EC Multifunction control panel, complete with emergency stop and activation buttons, power isolation switch, digital display, built-in radio decoder and safety device diagnostics.

24V D.C. operator and control panels
001F4024 Self-locking operator.

002ZL170N Control panel for one operator with built-in radio decoder. 24 V


002 LB18 $\begin{aligned} & \text { Casing with emergency ca } \\ & \text { and ZL19N control panels. }\end{aligned}$

F4004 SLIDE ARM
F4000-F4024

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.
Cex can be instal verican ly to the ghe ground,
solving those trequent 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 preci
and safety.
(iin Also 3-phase

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.

Asleek 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. 24 V D.C. and 3 -phase $230-400 \mathrm{~V}$ 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

 Mex height of sectional door with
 Max door width sliding doors and


Dimensions


Dimensions in millimetres ( $25.4 \mathrm{~mm}=1 \mathrm{in}$ )

Technical features

| Type | C-BX | C-BXE | C-BXX24 | C-BXT | C-BXET | C-BXK | C-BXEK |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Protection rating | 1 1P5 | 1 P54 | 1 P 54 | IP54 | 1 P 54 | 1 P54 | 1 P54 |
| Power supply ( ) (50/600Hz) | $230 \mathrm{AC}$. . | $230 \mathrm{AC}$. . | $230 \mathrm{AC}$. . |  |  | $230 \mathrm{AC}$. . | 230 A.C. |
| Motor power supply () | 230 A.C. 50/60Hz | 230 A.C. 50/60Hz | $24 . \mathrm{DC}$. |  |  | 230 A.C. $50 / 6 \mathrm{~Hz}$ |  |
| Current draw (A) | 2.2 | 2.2 | 9 Max | 2.5 | 2.5 | 3.6 | 3.6 |
| Power ( m ) | 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 ( $C^{\circ} / /^{\prime}$ F) |  |  |  | to $55^{\circ} \mathrm{C}$ | $-4{ }^{\circ} \mathrm{Fto} 131{ }^{\circ} \mathrm{F}$ |  |  |
| Motor's therm-protection ( $\mathrm{C}^{\prime} /{ }^{\circ} \mathrm{F}$ ) | 150 | 150 | - | 150 | 150 | 150 | 150 |

The complete range


230 V A.C. operators

| 001C-BX | Operator with mechanical endstop (450W). |
| :--- | :--- |
| 001C-BXE | Operator with encoder (450W). |
| 001C-BXK | Operator with mechanical endstop (750W). |
| 001C-BXEK | Operator with encoder (750W). |

230-400V A.C. 3-phase operators
001C-BXT Operator with mechanical endstop.


## 230V A.C. control panels



# 001C-BXET Operator with encoder. 

The complete range

${ }^{230-400 \mathrm{~V}}$ A．C．three－phase control panels
$\begin{array}{ll}002 Z T 5 & \begin{array}{l}\text { Control panel } \text { with digital } \\ \text { For C－BXET }\end{array} \\ & \text { 230 }\end{array}$
002ZT5C 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．
002ZT6 Control panel with built－in radio decoder and safety device diagnostic For C－BXT operator．
24V D．C．operator
001C－BXE24 Operator with encoder．

| 24V D．C．control panels |  |
| :--- | :--- |
| 002ZL80 | $\begin{array}{l}\text { Control panel，complete with digital display，built－in radio decoder and } \\ \text { safety device diagnostics．}\end{array}$ |

002ZL80C Control panel complete with emergency stop and activation buttons，power isolation

## Accessories

001CMS
Release handle with customized key and cord reset． $\mathrm{L}=7 \mathrm{~m} / 23 \mathrm{ft}$ ．
OO9CCT Simple $1 / 2$ inch chain for folding and sliding doors．

| 009CGIU | Joint for $1 / 2$ inch chain． |
| :--- | :--- |
| $001 \mathbf{C 0 0 1}$ | Manual operations winch for sectional doors． <br> （chain $\mathrm{L}=10 \mathrm{~m} / 32^{\prime} 9$＂ft）． |
| $001 \mathbf{C 0 0 2}$ | Pendulum release system． |
| $001 \mathbf{C 0 0 3}$ | Transmission system for sliding doors，incluading a rack with $\mathrm{Z}=26$ pinion for hollow <br> gear shaft，chain tightening transmission system，operator securing brackets and door－ <br> leaf fixing brackets． |

Doors Turnstiles
\＆Access Control Catalogue

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

The complete range


Permanent micrometric adjustment


## New electronics

The new C－BXE series control panels offer
－Electronic encodere controlled
This enables reliable obstacle sensing
as well as exact adjustment of the＂slow－down＂and endstops．
Digital display．
or easier and $m$ ．
Tor easier and mo
Linked control．
Enables centraliz
Enables centralized management and control of the closure through a
${ }^{6} 6$ automation systems．
Reduced thrust．
Adjustable slow－down speed in opening and closing operations．
Programming of the e iliferentiated control functions
Opening with automatic command closing with
Opening with automatic command closing wi
maintained action command．
With obstacle detection safety function．
Comprehensive safiety device diagnostics．
lectronic auto test which checks the working status of the impulse to the motor．

Rolling shutter operators New H , the best solution for rolling shutters. 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.


New endstop assembly
The gate-run adjustment system has been re-engineered to yield greater precision and ease of adjustment, while reducing overall dimensions.


Advantages of H
A safe and easy-to-use system, one model is suitable for all differen 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 containe with command button and built-in pull-cord release.

## Limits to use

| Model | H1000 | H1103 | H2000 | 12103 |
| :---: | :---: | :---: | :---: | :---: |
| Lift capacity (Kg / lb ) | $120 / 265$ | 120 /265 | $200 / 440$ | $200 / 440$ |

Dimensions


## Technical features

| Trpe | H1000 | H1103 | H20 | H2 |
| :---: | :---: | :---: | :---: | :---: |
| Protection rating | 1P40 | 1 P 40 | 1 P 40 | 1 P 40 |
| Power supply (M) (50/60Hz) | 230 A.C. | 230 A.C. | 230 A.C. | 230 A.C. |
| Motor power supply (M) (50160Hz) | 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 ( ${ }^{\circ} /$ / $\%$ ) |  | $-20^{\circ}$ | $131{ }^{\circ} \mathrm{F}$ |  |
| Motor's thermo-rotection ( $\mathrm{C}^{\circ} / \mathrm{F}^{\prime}$ F) | 150/302 | 150/302 | 150/302 | 50/302 |
| Crown revolutions (RPM) | 9 | 9 | 9 | 9 |
| For |  |  |  |  |

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


Self-locking operator complet
(Lift capacity: $120 \mathrm{Kg} / 265 \mathrm{lb}$ ).
001 H 1103 Reversible operator (Lift capacity: $120 \mathrm{Kg} / 265 \mathrm{lb}$ ).

001H2003 Self-locking operator with two motors complete with cord-release (Lift capacity: $200 \mathrm{Kg} / 440 \mathrm{lb}$ ).

001 H 2103 Reversible operator with two motors (Lift capacity: $200 \mathrm{Kg} / 440 \mathrm{lb}$ ).

230 V A.C. control panel
002ZR24 Control panel with built-in radio decoder.

Accessories
001H3100 230V A.C. reversible motor to combine with H1003 and H1103 operators.

001H3012 Manual release system for H1103-H2103 reversible operators. Length $=5 \mathrm{~m}$.

001H3001 Security container for pull-cord manual release system, complete with automation activation button.


A world of safe automation

Turnstiles
CAME

## 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 stel, arms
stainless steel. The triood stainless steel. The tripod
casing casing also comes in white.


2av 24 Volt only

The 24 V power supply makes for an easy installation procedure and is at the same time a guarantee of
safety for the user. safety for the user.

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


The complete range

## Mechanical tripod turnstile

001PSAP01 Mechanical mono directional turnstile with painted steel structure.


Electromechanical tripod turnstile
001PSAP02 24V D.C. mono directional electromechanical turnstile with painted steel structure.
001 PSAP07 24V D.C. bidirectional electromechanical turnstile with painted steel structure.
Tripod automatic release in case of power cut.
Accessories for mechanical and electromechanical tripod turnstiles
001PSOPSC01 Panic-release arms with pressure joint.
001PSOPCN01 Mechanical counter meter.
001PSOPGOO Stainless steel lateral guide barrier.

001PSOPGO1 Stainless steel lateral guide barrier - 100 cm high post, metal flange
001PSOPGO1X Stainless steel lateral guide barrier - 100 cm high post, flange and stainless steel flange cover.

Accessories for electromechanical tripod turnstiles
001PSOPSC02 Climb-over detection system with sensors and alarm.
2. 001PSOPSC03 Cover pressure detection sensor (complementary to 001PSOPSC02)

001PSOPSF01 Bidirectional traffic light with high-intensity Leds.
001PSCSCR04 Console to remotely control up to a maximum of 4 passageways.
001PSOPCN03 Electronic counter meter
001PSOPAL01 24 V D.C. 2.5 A power supply unit (switching type) cabled with IP65 casing with 2 m long cable. 16A plug.
001PSOPALO1N 24V D.C. 2.5 A power supply unit (switching type).
001PSOPAL05 24V D.C. 4.5 A power supply unit (switching type) cabled with IP65 casing with 2 m long cable. 16A plug.
001PSOPALO5N 24V D.C. 4.5 A power supply unit (switching type).
001PSOPALO6 24 V D.C 6.5 A power supply unit (switching type) cabled with IP65 casing with 2 m long cable. 16A plug

001PSOPAL06N 24V D.C. 6.5 A power supply unit (switching type).
NOTES:
Seep. 138 for is

## 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 speed and efficient manner. Twister is the natural compliment to CAME access control systems.


The structure.
Made of scoto
Made of scotch--rite finished
stainesssteel witharemovable
cover and key lock
cover and key lock.


The inner mechanism. Yyuiprod with an ajusustale
hydrauic cushion, control
Iogic and logic, and an automatic release function for the
during power cuts.

Integrated acces
control sensor.
Twister is equipped with
trin transponder sensor. Therefore
it can be used with cards or keyfobs, the best solution when controlling accesss
sport centres and other sport centres and
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.

| Type | PSBPS01 | PSSPSO2 | PSSPSO7 |
| :---: | :---: | :---: | :---: |
| Power supply () (50/60Hz) | - | 230 A.C. | 230 A.C. |
| Motor power supply (M) |  | $24 . \mathrm{DC}$. | 24 D.C. |
| Current draw (A) | - | 2.5 | 2.5 |
| Weight (Kg/b) | 60/132 | 60/132 | 60/132 |
| Operating temperature ( $0^{\circ} /{ }^{\circ} \mathrm{F}$ ) | $-20^{\circ} \mathrm{Cto} 65^{\circ} \mathrm{C} \quad-4{ }^{\circ} \mathrm{Fto} 149{ }^{\circ} \mathrm{F}$ | $-20^{\circ} \mathrm{Cto} 55^{\circ} \mathrm{C} \quad-4{ }^{\circ} \mathrm{Fto} 131{ }^{\circ} \mathrm{F}$ | $20^{\circ} \mathrm{C}$ to $55^{\circ} \mathrm{C} \quad-4{ }^{\circ} \mathrm{F}$ |

The complete range

## Tripod mechanical turnstile

001PSBPS01 Mechanical mono directional turnstile in stainless steel with scotch brite finishing.
Tripod electromechanical turnstile
$\begin{array}{ll}\text { 001PSBPS02 } & \begin{array}{ll}24 \mathrm{~V} \text { D.C. mono directional electromechanical turnstile in stainless steel with scotch } \\ \text { brite finish. Tripod mechanical and manual release. }\end{array}\end{array}$
001PSBPS07 24V D.C. bidirectional electromechanical turnstile in stainless steel with scotch brite finish. Tripod automatic release in case of blackout.

Accessories for mechanical and electromechanical turnstiles
001PSOPSC01 Panic-release arms with pressure joint.
001PSOPCN01 Mechanical counter meter.
001PSOPGOO Stainless steel lateral guide barrier

001PSOPGO1 Stainless steel lateral guide barrier - 100 cm high post, metal flange 001PSOPGO1X Stainless steel lateral guide barrier - 100 cm high post, flange and stainless Stainless steel late
steel flange cover.

Accessories for electromechanical turnstiles
001PSOPSC02 Climb-over detection system with sensors and alarm.
201 001PSOPSC03 Cover pressure detection sensor (complementary to 001PSOPSC02)
001PSOPSF01 Bidirectional traffic light with high-intensity Leds.
001PSCSCR04 Console to remotely control up to a maximum of 4 passageways.
001PSOPCN03 Electronic counter meter
001PSOPAL01 24 V D.C. 2.5 A power supply unit (switching type) cabled with IP65 casing with 2 m long cable. 16 A plug.
001PSOPALO1N 24V D.C. 2.5 A power supply unit (switching type).
001PSOPAL05 24V D.C. 4.5 A power supply unit (switching type) cabled with IP65 24 V D.C. 4.5 A power supply unit (switc
casing with 2 m long cable. 16 A plug.
001PSOPALO5N 24V D.C. 4.5 A power supply unit (switching type).
001PSOPAL06 24 V D.C 6.5 A power supply unit (switching type) cabled with IP65 casing with 2 m long cable. 16A plug.

001PSOPALO6N 24V D.C. 6.5 A power supply unit (switching type).
NOTES:
See p.
Accessories

## Guardian <br> new

High security turnstile
For large passageways
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. Guarrian is equipped
hydraulic decelerator.

Perfect integration.
Guardian is asily Guardian is easily integrable
to all CAME access control systems.



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 and special epoxy varnishing it Thanks to the galvanised steel structure corrosive agents.


| ז1pe | PSHPSO7 | PSHPSO1 |
| :---: | :---: | :---: |
| Power supply ( $)$ | $24 \mathrm{DC}$. . |  |
| Current draw (A) | 2.5 | - |
| Weight ( Kg/b) | 400 /880 | $400 / 880$ |
| Operating temperature ( $\mathrm{C}_{\text {C/ } / \text { F }}$ ) | $-20^{\circ} \mathrm{Cto} 55^{\circ} \mathrm{C} \quad-4 \mathrm{~F}^{\circ} \mathrm{to} 131{ }^{\circ} \mathrm{F}$ | $-20^{\circ} \mathrm{C}$ to $65^{\circ} \mathrm{C} \quad-4{ }^{\circ} \mathrm{F}$ to $149{ }^{\circ} \mathrm{F}$ |

The complete range


## NOTES:

NOTES: See p. 138 for its use combined with RBM84 access control system

| "Full-Height" turnstile |  |
| :--- | :--- |
| 001 PSHPS07 | Full height bidirectional electromechanical turnstile, with galvanised and painted steel <br> structure, hydraulic decelerator, control and managing logic and high intensity LED- <br> indicators on both sides. 24 V D.C. power supply unit. |
| 001 PSHPSO1 | Full height mono directional mechanical turnstile, galvanised and painted steel struc- <br> ture, with hydraulic decelerator. |
| NOTES: <br> See p. 138 for its use combined with RBM84 access control system. |  |

Passage Indicator.
passage indicator.

2ay 24 Volt only

[^10]


The advantages of Wing 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 10 mm -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 Flow management.
For a better flow
mangement, Wing can be
accessorised $\mathbf{y}$ ith a
moduar searel fence
system.
 an emergency panic release system. It is also suitable for wide passageways as it is available in a double configuration
synchronised automation. Wing allows easy access for wheelchairs where other turnstiles might cause problems.


Dimensions


[^11]Technical features

| Type | PSEPCSSOO | PSEPCSDOO | PSEPCSSOOCT | PSEPCSDOOCT |
| :---: | :---: | :---: | :---: | :---: |
| Power supply () (50/600Hz) | 230 A.C. | 230 A.C. | 230 A.C. | 230 A.C. |
| Motor power supply () | $24 \mathrm{DC}$. . | $24 \mathrm{DC}$. . | $24 \mathrm{DC}$. . | 24 D.C. |
| Current draw (A) | 2.5 | 2.5 | 2.5 | 2.5 |
| Weight (Kg/b) | 40/88 | 40/88 | 40/88 | 40/88 |
| Operating temperature ( $0^{\circ} /$ \% $\%$ ) |  | $-20^{\circ} \mathrm{C}$ to $55^{\circ} \mathrm{C}$ | $-40 \mathrm{Fto} 131 \mathrm{FF}$ |  |

The complete range

$$
\begin{aligned}
& \text { Motorised swing turnstile } \\
& \hline \text { 001PSEPCSS00 } \\
& \begin{array}{l}
\text { Bidirectional motorised swing turnstile. Automatic opening with command device; } \\
\text { timed closing and emergency panic-release system. Polycarbonate leaf. }
\end{array} \\
& \hline 001 \text { PSEPCSD00 }
\end{aligned} \begin{aligned}
& \text { Double bidirectional motorised swing turnstile. Automatic opening with command } \\
& \text { device; timed closing and emergency panic-release system. Polycarbonate leaf. }
\end{aligned}
$$

## Accessories

001PSOPSC02 Climb-over detection system with sensors and alarm.

001PSOPSF01 Bidirectional traffic light with high-intensity LEDs.

001PSOPCN03 Electronic counter meter.

001PSCSCR04 Console to remotely control up to a maximum of 4 passageways.

001PSOPEPCDIS Polycarbonate leaf for disabled access.
001PSOPEPCDISCT Tempered glass leaf for disabled access.

001PSOPAL01 24V D.C. 2.5 A power supply unit (switching type) cabled with IP65 casing with 2 m long cable. 16 A plug.
001 PSOPAL01N 24 V D.C. 2.5 A power supply unit (switching type).
$\begin{array}{ll}001 \text { PSOPAL05 } & \begin{array}{l}24 \mathrm{~V} \text { D.C. } 4.5 \mathrm{~A} \text { power supply unit (switching type) cabled with IP65 } \\ \text { casing with } 2 \mathrm{~m} \text { long cable. 16A plug. }\end{array}\end{array}$
001PSOPAL05N 24V D.C. 4.5 A power supply unit (switching type).
001PSOPAL06 24 V D.C 6.5 A power supply unit (switching type) cabled with IP65
casing with 2 m long cable. 16 A plug.
001PSOPAL06N 24V D.C. 6.5 A power supply unit (switching type).
NOTES:
See p. 138 for its use combined with RBM84 access control system.

- Saloon

Motorised swing turnstile

| Type | SALOON |  |  |
| :---: | :---: | :---: | :---: |
| Power supply (M) (50/60Hz) | 230 A.C. |  |  |
| Motor power supply () | $24 . \mathrm{C}$. |  |  |
| Current draw (A) | $2.5 / 5$ |  |  |
| Weight (Kg/b) | 55/110 |  |  |
| Operating temperature ( $0^{\circ} /$ / $F$ F | $-20^{\circ} \mathrm{C}$ to $55^{\circ} \mathrm{C}$ | $-4^{\circ} \mathrm{Fto} 131{ }^{\circ} \mathrm{F}$ |  |

## The complete range

 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.


The advantages of Saloon Saloon is available in two different versions; One version in painted stee 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.

## Command impulses, <br> The turnstile can be activated by card,

transponder keyfob,
push-button or photocell.


Access control.
integration with
allow complete
managenent
management of access
for up to 5500 users. See for up to 5500 users. Se
page 138 for details.


Dimensions

## 2ay 24 Volt only

The 24 V power supply makes the installation procedure easy and is at the same time a guarantee of safety for the user.



## Motorised swirnstile

001PSEPOSOO Bidirectional motorised swing turnstile in painted steel. Automatic opening with command device; timed closing and emergency panic-release system.
001PSEP0S01 Mono directional motorised swing turnstile in painted steel with right-hand post. Mono directional motorised swing turnstile in painted steel with right-hand post.
Automatic opening with sensor, timed closing and emergency panic-release system.
001PSEPOS02
Mono directional motorised swing turnstile in painted steel with left-hand post. Automatic opening with sensor, timed closing and emergency panic-release system.
001PSEPOSO3 Mono directional motorised swing turnstile in painted steel with right-hand post. emergency panic-release system. emergency panic-release system.
001PSEPOSO4
Mono directional motorised swing turnstile in painted steel with left-hand post. Automatic opening with command device; closing controlled by sensor and
emergency panic-release system.
001PSEPODOO Double bidirectional motorised swing turnstile in painted steel. Automatic opening with command device; timed closing and emergency panic-release system.

001PSEPOD01 Double mono directional motorised swing turnstile in painted steel Automatic opening with sensor, timed closing and emergency panic-release system.
001PSEPOD02 Double mono directional motorised swing turnstile in painted steel Automatic opening 001PSEPOSM01 "Always open" mechanical mono directional motorised swing turnstile in painted steel
and with right-hand post. Flow direction control sensor with automatic activation of alarm and turnstile closing/locking.
001PSEPOSMO2
"Always open" mechanical mono directional motorised swing turnstile in painted steel and with left-hand post. Flow direction control sensor with automatic activation of alarm and turnstile closing/locking.
001PSEPODM00
Double "Always open" mono directional motorised swing turnstile in painted steel How direction control sensor with automatic activation of alarm and turnstile clos glocking.
001PSEPSS00
Bidirectional motorised swing turnstile in stainless steel. Automatic opening with command device; timed closing and emergency panic-release system.
001PSEPSS01 Mono directional motorised swing turnstile in stainless steel and right-hand post Automatic opening with sensor, timed closing and emergency panic--elease system.

001PSEPSS02 Mono directional motorised swing turnstile in stainless steel and left-hand post. Automatic opening with sensor, timed closing and emergency panic-release system.

001PSEPSS03 Mono directional motorised swing turnstile in stainless steel and right-hand post. Automatic opening with command device; closing controlled by sensor and mergency panic-release system.
001PSEPSS04 Mono directional motorised swing turnstile in stainless steel and left-hand pos. Automatic opening with command device; closing controlled by sensor and emergency panic-release system.
001PSEPSD00 Double bidirectional motorised swing turnstile in stainless steel Automatic (
001PSEPSD01 Double mono directional motorised swing turnstile in painted steel Automatic opening with sensor, timed closing and emergency panic-release system.
001PSEPSD02
Double mono directional motorised swing turnstile in stainless steel. Automatic opening with command device; closing controlled by sensor and emergency panic-release system.

See 138 for is use combined with RBM84 access control system

The complete range


Motorised swing turnstile
001PSEPSSM01 "Always open" mechanical mono directional motorised swing turnstile in stainless steel and turnstile closing/locking.
001PSEPSSM02 "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.
001PSEPSDM00 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
001PSOPSC02 Climb-over detection system with sensors and alarm.
001PSOPSF01 Bidirectional traffic light with high-intensity LEDs.
001 PSOPAL01 24 V D.C. 2.5 A power supply unit (switching type) cabled with IP65 casing with 2 m long cable. 16A plug.
001PSOPAL01N 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. 16 A plug.
001 PSOPALO5N 24V D.C. 4.5 A power supply unit (switching type).
001PSOPALO6 24V D.C 6.5 A power supply unit (switching type) cabled with IP65 24V D.C 6.5 A power supply unit (switc
casing with 2 m long cable. 16 A 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 triggere by proximity card readers or other devices and activates the motor-rotation in the direction serected.
(for example a person standing on the passage area). In this event, the electronics deactivate he 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

Configurations


PSEPOSO3 - PSEPSSO3


PSEPODOO - PSEPSDOO


PSEPODO2 - PSEPSD02


PSEPOSM01 - PSEPSSM01



## Compass <br> 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 It is availabie win inings
different type of opengs:
clockwise, counter-clockwis clockwise, counter-cloch and bidirectional.


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 and pivoted on its axis, allowing the entrance to be opened for free access when necessary.

```
Stainless steel finishing.
The Securing flange and the
l
```


## Flow management. For a better flow

 management Compass can be applied with the asdditionof the modula lateral fence of the modular lateral fence
system. Compass is also equipped with a panic equipped with a
release system.


## Dimensions





## Current draw (A)


$20^{\circ} \mathrm{Cto} 55^{\circ} \mathrm{C} \quad-4^{\circ} \mathrm{F}$ to $131^{\circ} \mathrm{F}$

The complete range

> Revolving turnstile 001PSSPCWO $\begin{aligned} & \text { Mechanical revolving turnstile with right-hand post and emergency panic-release } \\ & \text { system. H } 100 \mathrm{~cm} .\end{aligned}$
$\square$ Mechanical revolving turnstile with left-hand turnstile and emergency panic-releas Mechanical revolvin
system. H 100 cm .
001PSSP00 Mechanical bidirectional revolving turnstile. H 100 cm .
001PSSPFMCWO Wall-securing mechanical revolving turnstile with right-hand post. H 100 cm .
001 PSSPFMCCW Wall-securing mechanical revolving turnstile with left-hand post. H 100 cm .


Accessories
001PSOPGOO Stainless steel lateral guide barrier.


001PSOPGO1
Stainless steel lateral guide barrier
100 cm high post, metal flange and plastic flange cover.
001PSOPGO1X Stainless steel lateral guide barrier
Stainless steel lateral guide barrier
100 cm high post, flange and stainless steel flange cover.

The simple solution
Flag is the mechanical gate with a simple push-to open 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:
clocknise, counterclockvis clockwise, counter-clo
and bidiriectional.


The advantages of Flag
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.


Operating temperature ( ${ }^{\circ} \mathrm{C} / \rho \mathrm{F}$ ) $-20^{\circ} \mathrm{C}$ to $55^{\circ} \mathrm{C} \quad-4 \mathrm{~A}^{\circ} \mathrm{Fto} 131^{\circ} \mathrm{F}$

The complete range

| Mechanical hatch |  |
| :--- | :--- |
| 001 PSBPCWO | Mechanical hatch with right-hand post. H 100 cm. |
| 001 PSBPCCW | Mechanical hatch with left-hand post. H 100 cm. |
| 001 PSBPOO | Bidirectional mechanical hatch. H 100 cm. |

## Accessories

001PSOPGOO Stainless steel lateral guide barrier.

001PSOPGO1 Stainless steel lateral guide barrier
100 cm high post, metal flange and plastic flange cover.
001PSOPGO1X
Stainless steel lateral guide barrier
100 cm high post, flange and stainless stee flange cove
001PSOPBPSC Key lock.

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.


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.
'Top' ' lateral fence.
The To in tilled lateral
fence in intend for ise in
coniunction with a a turnstile conjunction with a turstile
system.

[^12]



The complete range

## Exitpass Lateral fence

001PSUS120D Stainless steel lateral fence with panic-release bar. Right-hand post. Length $=120 \mathrm{~cm}$. Height $=100 \mathrm{~cm}$.
001PSUS120S Stainless steel lateral fence with panic-release bar 304. Left-hand post. Stainless steel lateral fence with pani
Length $=120 \mathrm{~cm}$. Height $=100 \mathrm{~cm}$.
001PSUS090D Stainless steel lateral fence with panic-release bar 304. Right-hand post. Stainless steel lateral fence with pa
Length $=90 \mathrm{~cm}$. Height $=100 \mathrm{~cm}$
001PSUS090S Stainless steel lateral fence with panic-release bar 304. Left-hand post. Stainless steel lateral fence with panic
Length $=90 \mathrm{~cm}$. Height $=100 \mathrm{~cm}$.
001PSUS060D Stainless steel lateral fence with panic-release bar 304. Right-hand post. Length $=60 \mathrm{~cm}$. Height $=100 \mathrm{~cm}$.
001PSUS060S Stainless steel lateral fence with panic-release bar 304. Left-hand post. Length $=60 \mathrm{~cm}$. Height $=100 \mathrm{~cm}$.

Lateral fence for shopping trollies
001PSTPC100 Mono directional lateral fence with 2 trolley guides. Mono directional
Height $=100 \mathrm{~cm}$.
001 PSTPC150 Mono directional lateral fence with 3 trolley guides. Height $=150 \mathrm{~cm}$.

001PSTPC200 Mono directional lateral fence with 4 trolley guides. Height $=200 \mathrm{~cm}$.

## Lateral fences

001PSTRV Galvanised steel post with securing flange and flange cover in chromium plated plastic. Without holes.
001PSTRV2F
Galvanised steel post with securing flange and flange cover in chromium plated plastic. With 2 holes - Height $=100 \mathrm{~cm}$.
001PSTRV4F90 Galvanised steel post with securing flange and flange cover in chromium plated plastic. With $2+290^{\circ}$ holes - Height $=100 \mathrm{~cm}$.
001PSTRV4F180 Galvanised steel post with securing flange and flange cover in chromium plated plastic. With $2+2180^{\circ}$ holes - Height $=100 \mathrm{~cm}$.
001PSTRV6F Galvanised steel post with securing flange and flange cover in chromium plated plastic. With 6 holes - Height $=100 \mathrm{~cm}$
001PSTRV8F Galvanised steel post with securing flange and flange cover in chromium plated plastic. With 8 holes - Height $=100 \mathrm{~cm}$.
001PSTRVX Post with securing flange and stainless steel flange cover. Without holes Height $=100 \mathrm{~cm}$.
001PSTRVX2F Post with securing flange and flange cover in stainless steel. With 2 holes Height $=100 \mathrm{~cm}$.
001PSTRVX4F90 Post with securing flange and stainless steel flange cover. With $2+290^{\circ}$ holes Height $=100 \mathrm{~cm}$.
001PSTRVX4F180 Post with securing flange and stainless steel flange cover. With $2+2180^{\circ}$ holes Height $=100 \mathrm{~cm}$.
Post with securing flange and stainless steel flange cover. With 6 holes Post with securing $=100 \mathrm{~cm}$.
Heigh
001PSTRVX8F
Post with securing flange and stainless steel flange cover. With 8 holes Height $=100 \mathrm{~cm}$.

The complete range

|  | Lateral fences |  |
| :---: | :---: | :---: |
|  | 001PSTRT050 | Horizontal tube for stainless steel lateral fences. $\varnothing 40 \mathrm{~mm}$ diameter -1 mm thick - Length 50 cm . |
|  | 001 PSTRT100 | Horizontal tube for stainless steel lateral fences. $\varnothing 40 \mathrm{~mm}$ diameter -1 mm thick - Length 100 cm . |
|  | 001PSTRT150 | Horizontal tube for stainless steel lateral fences. $\varnothing 40 \mathrm{~mm}$ diameter -1 mm thick - Length 150 cm . |
|  | 001PSTRT200 | Horizontal tube for stainless steel lateral fences. $\varnothing 40 \mathrm{~mm}$ diameter -1 mm thick - Length 200 cm . |
|  | 001PSTRT250 | Horizontal tube for stainless steel lateral fences. Ø 40 mm diameter - 1 mm thick - Length 250 cm |
|  | 001PSTRT300 | Horizontal tube for stainless steel lateral fences. $\varnothing 40 \mathrm{~mm}$ diameter - 1 mm thick - Length 300 cm . |
|  | 001PSTRM001 | Junction sleeve in chromium plated plastic complete with fixing screws. |
| $\infty$ | 001PSTRM003 | Junction sleeve in stainless steel complete with fixing screws. |
|  | 001PSTRM004 | Stainless steel wall-securing sleeve complete with screws. |
|  | Top lateral fences |  |
|  | 001PSTRPE | Ridged aluminium plate with anticorodal frame-structure. |
|  | 001PSTRFPE | Stainless steel plate securing lateral fence and polycarbonate panel. 6 mm thick - Height $=90 \mathrm{~cm}$. |
|  | 001PSTRFPA | Stainless steel floor securing lateral fence and polycarbonate panel. 6 mm thick - Height $=90 \mathrm{~cm}$. |
|  | 001PSTRFPEN | Stainless steel plate securing lateral fence. Height $=90 \mathrm{~cm}$. |
|  | 001PSTRFPAN | Stainless steel floor securing lateral fence. Height $=90 \mathrm{~cm}$. |
|  | Smart lateral fences |  |
|  | 001PSTRV80 | Stainless steel post <br> Height $=90 \mathrm{~cm}-\varnothing 80 \mathrm{~mm}$ diameter. |
|  | 001PSTRSFPL60875 | 6 mm thick transparent polycarbonate panel dimensions: $800 \times 750 \mathrm{~mm}$. |



A world of safe automation
www.cameuk.com

## Automatic swing and sliding doors

## Standard installation for 2-LEAF swing doors <br> 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

| (A) Operators with control panel | Cave emin |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| B TX Infrared photocells |  | $360.15 m m^{2}$ | 3GaNM15 | 3xat.5m² |  | $301.5 \mathrm{~mm}{ }^{2}$ | 36xMM15 |
| C RX Infrared photocells | - Finctions selector | 70.5.5m ${ }^{2}$ | 7 tanv 20 | $70.5 \mathrm{~mm}{ }^{2}$ | Taneczo | $7 \mathrm{~T}, 5 \mathrm{~mm}{ }^{\text {a }}$ | Tankc 20 |
| Function selector |  |  | ${ }_{\text {a }}^{\text {4xNVGIT }}$ |  | 4xancil |  |  |
| D Function selector |  |  |  | mee documenta | On 0 Eur | standard | Us standa |

E Safety and command radar
G Touch sensor
H. Selector switch (key - code - card)



The MRB33 - MR8370 - MR8390 safety
radars with anti-masking radars with anti-masking tecchnology detect
the presence of people on the space behind the moving door. Unpore on the space bele brotind
those application for those applic
is equired. access throughout the various departments
of a company or in any other public building.

## 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 leve 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

A Operators with control panel
B $T X$ Infrared photocells
C $R X$ Infrared photocells
D Function selector
E Safety radar
F Command radar
G Touch sensor
H Selector switch (key - code - card)
( Inner pull-chord release for electro-release


## 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

A Operators with control panel
B TX Infrared photocells
C RX Infrared photocells
( Function selector
E Safety and command radar
( Touch sensor
(H) Selector switch (key - code - card)
(I) Inner pull-chord release for electro-release

door leaves of up to 1.2 m

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, airpots, railway stations, airportrs,
hospitals and pubbic offices,


Advantages of Fly

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 where architectural barriers need to be dealt with

Commercial buildings such
as shops or algrg distribution
warehouses. as shops or lag.
warehouses.


## Private and service-sec buildings such as in buildings suct as in restaurants, sports cen

 businesses, hotels andresidential properties.


| 1 Leai models | PB1100 | PB1100 | PB1100 |
| :---: | :---: | :---: | :---: |
| Max weight of door leafleaves ( Kg ) | 250 | 200 | 150 |
| Max weight of door leafleaves (b) | 550 | 440 | 330 |
| Max width of door leafleaves (mm) | 800 | 1000 | 1200 |
| Max width of door leafleaves (in) | 32 | 40 | 47 |
| 2 Leaved modeds | PB2100 | PB2100 | PB2100 |
| Max weight of door leafleaves ( Kg ) | 250+250 | 200200 | 150+150 |
| Max weight of door leafleaves (b) | 550+550 | 440+440 | 330+330 |
| Max width of door leafleaves (mm) | 800+800 | 1000+1000 | 1200+1200 |
| Max width of door leafleaves (in) | 32+32 | 40+40 | $47+47$ |

## 24y 24V Fly

24 V 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. closing and enables electronic ob
which is built-into the control panel.


The complete range


Complete automation systems with 24V D.C. operator
001 PB1100 Automation system for single-leaf swing doors.
001PB2100 Automation system for double-leaf swing doors.
Profile and profile covers are not included.

001PF2100* Profile and profile cover for PB2100

## Accessories

001PB1001 Straight transmission arm. "PULL" opening.


Dimensions and type of opening


Dimensions in millimetres ( $25.4 \mathrm{~mm}=1$ in


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 s hospitals and sports centres.


Private buildings such as hotels, restaurants,
and businesses.


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 24 V 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 peration and thrust parameters as well as constant movement control and obstacle-detection.

## Limits to use

| maimodes | CORSA 1 | RODE0 1 |
| :---: | :---: | :---: |
| Max weight of door leafleaves (Kg. /b) | 75/165 | 125/276 |
| Max width of door leafleaves (mm/in) | 3340 / 132 | 3340/132 |
| 2 Leaves models | CORSA2 | RODEO 2 |
| Max weight of door leafleaves (Kg. /b) | $75+75 / 165+165$ | 125+125/280+280 |
| Max width of door leafleaves (mm/in) | 1670/66 | $1670 / 66$ |
| $\bigcirc$ |  |  |


| Eppe | CORSA 1 | CORSA 2 | RODEO 1 | RODE0 2 |
| :---: | :---: | :---: | :---: | :---: |
| Power supply ( $(50 / 60 \mathrm{~Hz})$ | 230 A.C. | 230 A.C. | 230 A.C. | 230 A.C. |
| Motor power supply (M) | $24 . \mathrm{C}$. | $24 . \mathrm{C}$. | 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 ( $0 / / \mathrm{F}$ ) |  |  | $-4{ }^{\circ} \mathrm{F}$ to $131{ }^{\circ} \mathrm{F}$ |  |

The complete range
Complete automation system with 24 V D.C. operator
001 CORSA1 Automation system for single-leaf sliding doors of up to $75 \mathrm{Kg} / 165 \mathrm{lb}$.
001CORSA2 Automation system for double-leaf sliding doors of up to $75 \mathrm{Kg} / 165 \mathrm{lb}$ per door leaf.
001RODEO1 Automation system for single-leaf sliding doors of up to $125 \mathrm{Kg} / 280 \mathrm{lb}$. 001RODEO1 Automation system for single-leaf sliding doors of up to $125 \mathrm{Kg} / 280 \mathrm{lb}$.

## Accessories



001 MA7012 Electric lock complete with cord and release lever.
001MA7032 Card for connecting two $12 \mathrm{~V}-1.2 \mathrm{Ah}$ emergency batteries with rack.

001MA7041 Function selector.
-Corsa-Rodeo

Dimensions


Leaf/leaves height
Glass doors

Framed leaves

$Y=$ Height from the ground of beam profile fixing H = Height from ground of the lintel
I = Height of the framed door-leaf with the shown profiles

## Solution 1

$V=\frac{\mathbf{H}-70 \mathrm{~mm}}{\mathbf{Y}-88 \mathrm{~mm}}$
Solution 2
$\mathbf{V}=\mathbf{H}-22 \mathrm{~mm}$
$\mathbf{Y}-40 \mathrm{~mm}$
$\mathbf{Y}=$ Height from the ground of beam profile fixing
$\mathbf{H}=$ Height from ground of the lintel
$\mathbf{V}=$ Height of glass with shown profiles
Weight of door



Solution 1
$I=H-28 \mathrm{~mm}$

Solution 2
$I=\begin{aligned} & H-28 \mathrm{~mm} \\ & Y-46 \mathrm{~mm}\end{aligned}$
Solution 3
$I=\frac{H-48 \mathrm{~mm}}{Y-66 \mathrm{~mm}}$

30 mm


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 he fixed the 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 comes with suitable fixing systems that use at least $2 / 3$ of the holes
availiable and, mandatory those on the ends and centre of the profile. The holes are situated along two parallel lines with 250 mm spacing.

Corsa-Rodeo

The complete range

## Covering and support aluminium profiles

Doors Turnstiles Access Control
Catalogue $\cdots$

$$
\text { 001PLCD1 Beam profile and slide guide. Length }=6.85 \mathrm{~m}
$$

001LC68
Natural anodized profile cover. Length $=6.85 \mathrm{~m}$

001LC68G Unfinished profile cover. Length $=6.85 \mathrm{~m}$


001LTC Natural grey painted caps for LC00 profile cover.

001LTCG Unfinished caps for LC01 profile cover.

001 LD68 Natural anodized extra-size profile cover. Length $=6.85 \mathrm{~m}$


001LD68G Unfinished extra-size profile cover. Length $=6.85 \mathrm{~m}$


001LTD Caps with hinges for LD00 and LD01 profile covers.
notes:


Special varnishing and oxidation treatments made to order
The varishing and oxidation treatments can be applied to the following
items: LCOO-LCO1 - LTCG - LDO1 - LDOO-MA items: LCOO - LCO1 - LTCG - LDO1 - LD00 - MA7371 - MA7471 MA7571 -
MA7351 - MA7451 - MA7551 - MA7370 MA7470 - MA7570 - MA7353 MA7751 - MA7451 - MA7551 - MA7370 MA
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, Subsequent applications, even when
could result in slight varitions of hue.
Please contact us to discuss your requirements.

The complete range


## 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 $1,000 \mathrm{~mm}$ wide.
001MA7471 Complete kit for two door leaves of up to 750 mm wide or one door leaf up to $1,500 \mathrm{~mm}$ wide.
001 MA7571 Complete kit for two door leaves of up to $1,000 \mathrm{~mm}$ wide or one door leaf up to $2,000 \mathrm{~mm}$ 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 $1,000 \mathrm{~mm}$ wide.

001MA7451 Complete kit for two door leaves of up to 750 mm wide or one door leaf up to $1,500 \mathrm{~mm}$ wide.
001MA7551 Complete kit for two door leaves of up to $1,000 \mathrm{~mm}$ wide or one door leaf up to $2,000 \mathrm{~mm}$ 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 $1,000 \mathrm{~mm}$ wide.
001MA7470 Complete kit for two door leaves of up to 750 mm wide or one door leaf up to $1,500 \mathrm{~mm}$ wide.
001 MA7570 Complete kit for two door leaves of up to $1,000 \mathrm{~mm}$ wide Complete kit for two door leaves of up
or one door leaf up to $2,000 \mathrm{~mm}$ wide.

Lower guiding profile for 10 mm thick tempered glass door leaves
with flush floor rails
001MA7353 $\begin{aligned} & \text { Complete kit for two door leaves of up to } 500 \mathrm{~mm} \text { wide } \\ & \text { or one door leaf up to } 1,000 \mathrm{~mm} \text { wide. }\end{aligned}$
001 MA7453 Complete kit for two door leaves of up to 750 mm wide or one door leaf up to $1,500 \mathrm{~mm}$ wide.
001 MA7553 Complete kit for two door leaves of up to $1,000 \mathrm{~mm}$ wide or one door leaf up to $2,000 \mathrm{~mm}$ wide.

Grip trim for 10 mm thick tempered glass door leave ( $30 \mathrm{~m} / 98^{\prime} 5^{\prime \prime}$ ft packages)
001 MAM601 Black grip trim for fixed and sliding door leaves.
001 MAM601T Transparent grip trim for fixed and sliding door leaves.

```
001MAM600 Black central grip trim for sliding doors.
```

001 MAM600T Transparent central grip trim for sliding doors.

## 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


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, infrared beam 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.

 A complete range of $\square$


The complete range

## Micro photocells

001 MF9011 Pair of 24 V A.C.-D.C. flush mount infrared micro photocells with $7 \mathrm{~m} / 23^{\prime}$ ft range and


001 MF9111 Double pair of 24 VV A.C.-D.C. flush mount infrared micro photocells with $7 \mathrm{~m} / 23^{\prime} \mathrm{ft}$ range
and complete with shielded cable.

## Active infrared radar

001 MR8003 $12-24 V$ A.C.-D.C. radar with adjustable field. Max application height : $3 \mathrm{~m} / 9^{\prime} 10^{\prime \prime} \mathrm{ft}$. Detection is equal to: depth of field $=0.41-1.77 \mathrm{~m}$.
Depth of field $3.1 \mathrm{~m} / 10^{\prime} 2$ " ft .

The complete range

## Infrared safety radar with anti-masking function

## * Length of device

001 MR8334
$12-24 \mathrm{~V}$ A.C.-D.C. safety radar with anti-masking function. $\mathrm{L}=340 \mathrm{~mm}$ * Max application height: $2.5 \mathrm{~m} / 8^{\prime} 2^{\prime \prime}$ ft
$2 \mathrm{~m} / 6^{\prime} 5^{\prime \prime}$ t
Max detection etection band diameter $=0.13 \mathrm{~m}$.
Effective range is adjustable from 0.7 m to 2.5 m .
001MR8370
12-2 -24 A.C.-D.C. safety radar with anti--masking function. $L=700 \mathrm{~mm}^{*}$
Max Max application height: $2.5 \mathrm{~m} / 8^{\prime} 2^{\prime \prime} \mathrm{ft}$. $2 \mathrm{~m} \times$ detection depth $=0.53 \mathrm{~m}$ Deter $=0.13 \mathrm{~m}$.
Effective range is adjustable from 0.7 to 2.5 m .
001 MR8390 $24-700 \mathrm{~V}$ A.C.-D.C. safety radar with anti-masking function. $\mathrm{L}=900 \mathrm{~mm}^{*}$. Max application height: $2.5 \mathrm{~m} / 8^{\prime} 2^{\prime \prime} \mathrm{ft}$.
2 m Detection band diameter $=0$.
Max detection depth $=0.53 \mathrm{~m}$
Max detection depth $=0.53 \mathrm{~m}$
Effective range is adjustable from 0.7 to 2.5 m
12-24V A.C. - D.C. Microwave volumetric radars
001 MR8104 Bi-directional microwave volumetric radar. Max application height: $4 \mathrm{~m} / 13^{\prime} 1^{\prime \prime}$ " ft . Detection area: WIDE ANTENNA depth of field $=2 \mathrm{~m} / 6^{\prime} 5^{\prime \prime} \mathrm{ft}$ and wiath of field $4 \mathrm{~m} / 13^{\prime} 1^{\prime \prime} \mathrm{ft}$ NARROW ANTENNA depth pff field $=2.5 \mathrm{~m} / 8^{\prime} 2^{\prime \prime}$ "ft and width of field $2 \mathrm{~m} / 6^{\prime} 5^{\prime \prime} \mathrm{ft}$.
Adjustments through MRTOO1 remote control.

001 MR8105 $\begin{array}{ll}\text { Bi-directional microwave volumetric radar. Max application height: } 5 \mathrm{~m} / 16^{\prime} 4^{\prime \prime} \text { " } \mathrm{tt} \\ & \text { Detection area: Depth of field } \mathrm{l} \\ & 2.5 \mathrm{~m} / 82^{\prime \prime} \text { " } \mathrm{f} \text { and width of field } 4 \mathrm{~m} / 13^{3} 1^{\prime \prime} \mathrm{ft} .\end{array}$ Adjustments through MRTOO1 remote control.
001 MR8106 Mono/bi-directional microwave volumetric radar. Max application height: $4 \mathrm{~m} / 13^{\prime} 1^{\prime \prime}$ "ft. Detection area: WIDE ANTENNA depth of field $=2 \mathrm{~m} / 6^{\circ} 5$ " ft and width of field $4 \mathrm{~m} / 13^{\prime} 1^{\prime \prime}$ " ft Adjustments through MRTOO1 remote control.
001 MR8107
Bi-directional microwave volumetric radar. Max application height: $4 \mathrm{~m} / 13^{\prime} 1^{\prime \prime} \mathrm{ft}$. Detection area: WIEA ANTNNA depth of field $=2 \mathrm{~m} / 6^{\prime} 5^{\prime \prime}$ "f and width of field $4 \mathrm{~m} / 13^{\prime} 1^{\prime \prime}$ "ft. Manual adjustments. Mal adjustments.
Bidirectional radar with movement and presence detection
$\begin{array}{ll}\text { 001MR8202 } & \begin{array}{l}\text { Radar with adjustable field } 12-24 \mathrm{~V} \text { A.C. -D.C. } \\ \text { Height of application from } 1.8 \text { to } 4 \mathrm{~m} / 5^{\prime} 9^{\prime \prime} \text { to } 131^{\prime} 1 \text { " ft }\end{array}\end{array}$
MOVEMENT DETECTION:
Detection mode: movement - bidirectional
Technology: ipertrequency and microprocess
Technology: ipeerfequency and microprocessor
angle: from $15^{\circ}$ to $50^{\circ}$ in elevation (adjustable) (acth $4 \mathrm{~m} / 13^{\prime} 1^{\prime \prime}$ "t
PRESENCE DETECTION
Technology: active and focused infrared beam
Detection field: Field depth $035 \mathrm{~m} / 1^{\prime} 1^{\prime \prime} \mathrm{ft}-$ - Field width $2 \mathrm{~m} / 6^{\prime} 5^{\prime \prime} \mathrm{f}$
angle: from $-4^{\circ}$ to $+4^{\circ}$ (adjustable)

## Accessories

001MRT001 Remote control for MR8104-MR 8105 - MR8106 microwave volumetric radars.
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. Brush activated volumetric senso
Detection field: from 1 to 50 cm

001MP8030 $800 \times 300 \mathrm{~mm}$ sensitive pad.
001MP8060 $800 \times 600 \mathrm{~mm}$ sensitive pad.

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.



The European standards for emergency exits require a minimum passag to swing open when pushed by a person.

Emergency exits

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!


Theel must be inserted with door-leaves wider than 1100 mm .

| Limits to use |  |  |
| :---: | :---: | :---: |
| model | Max wictio of lealleaves (mm) | Mobilefived leaves |
| M6010 | 1100 | YES / No |
| M6110 | 1500 | yes/no |
| M16020 | $1100+1100$ | Yes / no |
| M6120 | $1500+1500$ | YES / No |
| M16030 | 1100 | YES / YES |
| M6130 | 1500 | YES / YES |
| M16040 | $1100+1100$ | YES/YES |
| M6140 | $1500+1500$ | YES /YES |
| Width of lea (mm) | Max weicht of eaf ( $\mathrm{K} / \mathrm{l})^{\text {a }}$ | Max weicht of leal (Koll) |
| 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 |

.
 full supply of accessories to use with the S40 series of framed profles and

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 detai in Every detain in the S 2 O
series is designed for quick-and-easy assemb
of the aluminium profiles and seamless installation of the door.


S20 series advantages
turdy, 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 hese 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 (ar/m) |
| 001MAL199 | 0.366 |
| 001MAL200 | 0.509 |
| 001MAL201 | 0.186 |
| 001 MAL202 | 0.2 |
| 001 MAL203 | 1.802 |
| 001MAL204 | 0.813 |
| $001 \mathrm{MAM612}$ | 1.325 |
| 001MAL790 | 0.478 |
| 009P3 | 0.028 |
| 009P4 | 0.05 |
| 009P5 | 0.068 |
| 00996 | 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
009P5 5 mm grip trim for glass.

Aluminium profiles for
la
001 MAL200 Wall-mounting frame for fixed door leaves.
001MAL203 Upper hooking profile.
001 MAL204 Vertical photocell containment and door leaf endpoint profile for one door leaf.
001 MAM612 Lower guiding profile.
001 MAL790 Reduced photocell containment profile.
Plastic grip profile (Packages of $30 \mathrm{~m} / 98^{\prime} 5^{\prime \prime} \mathrm{ft}$ ).
001MAL201 Lateral grip trim for fixed and mobile door leaves.
001 MAL202 Central grip trim for mobile door leaves.
001 MAL791 Finishing profile for MAL790 (10 pieces of $3 \mathrm{~m} / 9^{\prime} 10^{\prime \prime}$ ft each).
Assembling accessories
001 MAF001 Complete assembling kit for one fixed door leaf.
001 MAM001 Complete assembling kit for one mobile door leaf with slide rails.
Rubber grip trim. (Packages of $30 \mathrm{~m} / 98^{\prime} 5^{\prime \prime} \mathrm{ft}$ ).
009P3 3 mm grip trim for glass.

009P6 6 mm grip trim for glass.
009P7 7 mm grip trim for glass.

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 th accessories.
You will find tit
detail in the You will find that, every detail in the $S 40$ series is
designed for quick-and-eas assembly of the alumininium profiles and perfect


S40 series advantages
The S40 range is designed to provide door solutions, especially for those high-traffic environments.
yypical settings would be shopping malls, public buildings and hospital entrances where daily traffic volumes are high. The profile sections are, herefore 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.


The complete range

## for 4 to 15 mm thick crystal doors leaves

 (standard length: $5 \mathrm{~m} / 16^{\prime} 4^{\prime \prime}$ "ft)001MAM613 Upper hooking profile for framed door leaves.
001MAM699 Lower guiding profile for framed door leaves.
001MAL225 Wall-mounting frame for fixed door leaves
001MAL226 Vertical post and upper hooking profile for fixed and mobile door leaves.
001MAL227 Lower slide guiding profile.
001 MAL228 Flush floor profile for aligning and blocking fixed door leaves.
001MAL229 Door leaf blocking profile for emergency release system.
001MAL230 Vertical photocell containment and door leaf endpoint profile.
001 MAL231 Glass holding profile for MAL226 and MAL227.

## Assembling accessories

001 MAF002 Bracket to pair fixed door leaf to frame.
001MAF003 Upper and lower anchoring angle brackets for fixed door leaves.
001MAM002 Finishing for mobile door leaves with emergency release system.
001MAM003 Package of accessories to hook the mobile door leaf to the slide guide
001 MAMF01 Package of nuts and bolts for one door leaf assembly
001MAMF02 Adjusting angle bracket for one door leaf.
001 MAMF03 Angle bracket for frame.

Rubber grip trim (Packages of $30 \mathrm{~m} / 98^{\prime} 5^{\prime \prime} \mathrm{ft}$ )


009P4 4 mm grip trim for glass.
009P5 5 mm grip trim for glass.
009P6 6 mm grip trim for glass.
009P7 $\quad 7$ mm grip trim for glass.
Plastic grip trim (Packages of $30 \mathrm{~m} / 98^{\prime} 5^{\prime \prime} \mathrm{ft}$ ).
001 MAL223 Multi-use trim. 10 pieces of $3 \mathrm{~m} / 9^{\prime} 10^{\prime \prime} \mathrm{ft}$.
001 MAL224 Central grip trim for mobile door leaves. 10 pieces of $3 \mathrm{~m} / 9^{\prime} 10$


## Terms and Conditions of Sale

CAME UNITED KINGDOM, a trading division OF UMC GROUP LTD ("THE SELLER")
teans the person firm or company who buys or agrees to buy the Goods from the
"Delivery Date" Buyer in respect of the Goodss neans the dates specifed by yhe Seller when the Goods are to be delivered;
means these tems and conditions $f$ s sale;

 means she pirice of he Goos.
Conditions 6.3 and 4.8 ; means CAME United Kingdom, a trading division of UMC GROUP LTD.
whose registered office is is U Unit 3 , Orchard Park Industrial Esatac, Town S Sandiace, Notingham, NG10 SBP;

| SUucharge" |
| :--- |
| Wasted Time Ratc |


 Buyer from time to timc;
includes facsimile transmision but excludes witing on the screen of a visual
writing" display unit or other similar device
basis of sale
Conditions shall apply to the sale by the Seller of all Goods purc hased by hee Buyer and dhese Conditions shall govert the contract t the exclusion of any other terms and conditions introduced or submitted by he Buyed
No varation of these Conditions may beg yiven by any of the Sellers smployess
unless confrimed in writing by an authorised director of the Seller and no o ollateral o
 authorised director of the Seller on the Seller's official stationery.

 Any tenders or quotations will not constitut an onfier and the Contract shall be made whem
the Seller ackowledges the order placed by the Byyer in writing and not before. Where the Seller acknowlegess or confirms the details of the Contract in writing, the Buyer
 if the Byer fails to do so, the
contained mentiond
 Shall be subject to correction wibuut any liability on the patto t the Selles The Seler's smployess or agents are not authorised to make any reppesentations concerning
the Goods unless confirmed by an authorised director of the Seller in witing, In entering into the Contract the Buyer acknowledges hatit t does not rely on any such representations Iiabiliy for frauduluent missepersenataion.

 labour and materials usec), damagages, charges and expenses incurred by the Seller as a result of cancellation.
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 statutury or EU
2.92 where such changes to the Goods do not materially affect the quality or performance 2.9.2 Wheresuch ${ }^{\text {of the }}$

Any Goods supplied by the Seller must be handed correctly. The Buyer must ensure that all appropiates sfefty precautions are taken and that is staff are aware of and comply with all storage and u
DELVERY
4. 1 Unless otherwise agreed by the Seller in writing, delivery shall take place at the Buyer's
 date indicated by the Seller or the date agreed between the parties, but the time of delive
 unable for any reason to fulfiflany delivery of the Goods on the datas soindieated the Se
shall not be deemed to o in berach of contract or have any liability to the Buyer
 the Buyershall not be able to take delivery of the Goods within 110 working days from the date of receiptof of such notififation, the Selere shall b be entiled, but not otiliged, to cosis (including insurance) of storage.
The Buyer shall providece the sellerer wiht clear delivery instructions in the event tha
Seller agrest odeliverthe
Selle a arceses to deliver the Goods to any point other than the Selers's premises.
Upon delivery the Buyer will sign a delivery note which will be con clusive eviden Upon delivery the Buyer will sign a de
delivery of the Goods has been made.
4.5 The Seler shall have the right to deliver any Goods ordered in instalments hese Conditions orany claim by oy Buyerirespect of the Goods delivered in a any more instalments shall lote entitle the Buyere eitherer to treat the Contract tas a whole as repudiated or to rejet or or efise to to ake delivery y any of he Goods delivered in any other
If the seller fails to deliver the Goods (or any instalment thereoff for any reason other than any cause beyond the Sellers reasonablec control or the Buyer' fautl and the Seller is
 not delivered over the Price of the Goods.

 and the Buyer shall be charged the Wasted Time Rate and any other xpensess incurred by 4.8 .1 wasted time for any delay;
4.8.2 each repeat delivery where the Seller or Seller's sarier leaves the delivery point
 Coods andor the Buyer's failure to to rovide a represestative to assist heace Seller in in the miloading of the Coods.

 aspeers any loss of the Goods, which will enable the Seler to comply with the C carier, unless the Goods s rec checked of on receipt the carrieds stoewnended sed "unexamined".
If the Buyer fails to take delivery of the Godd (ohterwise than by reason of the Seller's any other right or remedy availabel to the Selle, the Seller may-
1.1 store the Goods until actual delivery and charge the Buyer for the reasonable cosss nocuiding ince of sorage and the Goods shall remain in all aspects at the Buyer's isk; or
dsat the best price readily obatainale and dafere deducting all reasonable storage and selling expenses) charge the Buyer for any shortall below the Price be entilied to to full payment in respect of the Goods refised; vithout prejuidice to any right on the Seller's part to damages or payment in respeced thereof, the Seller shall be entiteded to cancel any further consignments under the
RISK
G Goods shall pass to the Buyer at the time of delivery, or it Buyer wI
Cooss
PRICE

The Firce for the Goods shall be be pe price specified by the Selere in the quotation and unless
othervises stated drices are quoted.-
6.1 .1 exclusive of Value Added $T$ Tax (which he he Buyer shall be additionally liable to pay to
to the Sellery) and
t.
on an
xx-Works basis
6.2 Where the Selere is required to deliver the Goods on any basis other than ExWorksumless any specific fee or charge is agreed by the Buyer with the Seler, the Seller reserves the righ to charge a reasonable fee to the Byyer for the cost of any carriage andor other expense
incurred by yhe seller in reation to the celivery of the Goods ("Additional Charges").
6.3 The Buyer shall beara 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 decemining the Pricicen
YMENT TERMS
.1 The payment terms in this Condition apply save to the extent that they are inconsistent wit

 .3 The Seleres sall be entituded o invoice the Byyer for the Price of the Goods on or a tany
befored despach of the Goods or any insalment thereof. before despath of the Goods or any instalment thereof. The Buyer shal make payment for the Price of the Goods in stering, unless agreed The Byyer shall make payment for the Price of the Goods in sterling, unless agreed
othervise in writing Any payment rececived by the Seller in any other curreny will
bot 5 deemed to be payment for the Godd in question. Charect he Buyer makes payment for the Goods by cheque the Seller reseresesthe ight to charge a aurcharge in
is in intaly refusced.
7.6 Unless hhe Seller agreces that Condition 7.7 shal apply the Buyer shall pay each invoic from the Seller on demand.
Where the sele agrees that
Where the Seller agreses that this Condition 7.7 shall apply the Byer shall pay each invoice
from the seller within 30 days of the date the Sellers invoice is sssucd.
7.8 In the event that the Buyer faisisto pay any invoice from the Seller by the due date, all invices issud to the Buyer by the Seler in respect of any gods sold or supplied purs

7.9 The Sellers's invoices shall be peyable in inccordarece with htese Conditions, notwithtanding
that delivery may not have taken place and the property in the Goods may not have passed
 Contract.
or remedy vailable to the Selle
 judgement) on the amount unpai, at the raw
bankers base atie current from time to timc and
7.10.2 the seller shall be e enitited to witholdd delivery of any Goods agreed to be sold by the Seller t the Byye or any insalment thereof fbeing the subject of the contract or ony
other contract) unil he overdue payment is made in full.
TITLE
8.1 N
 these Conditions, title in the Gods shall not pass to the Buyer until he Seler has received
in cash or cleared funds payment in full of the Price of the Goods and all other goods agreed dy the Seller to the Buyer for which payment is then due
8.2 Units such time as sitic in the Goods passes to the Buyer, the Buyer shall hold the Goods as the Selers's fidciaira agent and bailece, and shall keep phe Goods sepratet from those of Seller's property, but shall be entited to to esell or sue the Goods in the ordinary cousse $o$ business.
8.3 Untis such time as the tilte in the Goods passes to the Buyer, the Selle shall be entited
at any time to require the Buyer to deliver up the Goods to the Seller and if the Buyer faits the Seller and if he Byer fait are stored and mark identify and reposesss the Goods
4 The Buyer shall not be entitided to pledge or in any way charge by way of security for any
indebtedesess any of the Goods which remain hte property of the Seller, but if the Buyer
 fight or remedy of the Seleref forthwith become duc and payable
varranties and liablity

 use. inadequate maintenance or misusus of the Goods, he Seller warants that:
9.1.1 the Goods will oresespond with the Sellers speceification for them
9.1.2 save as provided in and subject to the provisions in sub-clause 9.1 .3 delow (unles oolhervis agreed between the pariess the Goods will be friee foom material defectis
for 3 years from the Delivery Dates and for 3 years from the Delivery Date, and relating to the Goods.
 defect immediatly on discovery but in any verent within [14 days] of delivery. In the event ofa latent defect being discovered, the Buyer shall inform the Seller of such defece immedially on discovery of the same. Any claim for breach of waranty by the Buyer shall he clim within the time linit specified within but Condition.
2. The Seller shall not be liable for any defect in the specification or performance of the Goods if such defect is due to tinacuratio or insufficient information instruction or dravings being supplied to the Seller by the
of the eslere or otherwise.
4 Any waranty given in these Conditions shall not apply to any modificait
carriced out to the Goods without the sellers spior approval in writig.
carried out to the Goods without the Selerers prior approval in writing.
9.5 Sujecta sexpressly provided in thesc Conditions, all waranatis conditions or other tem
implied by statute or common law are excluded ot the fullestexten permited by law.
9.6 The Byer shall not be entitled to reject the Goods where the alleged defect or breach of
9.7 contract sos slight thatit would be unreasonable for the Buyer to reject the Goods.
 discretion, refiud to the Byer the price of the relevant Goods (or p proporitionate pan of the price for the relevant Goods), and the sens stail have no further liability to the Buyer. The Buye acknowledges hatany such valid climim is to be assessed and resolved iv
accordance with this Condition by the seller working in coniunction with Came Cancelli Automatic Spa (the manufacturer).
The Sellers siability in comnection with the sale of the Goods and the provision of tue
9.8.1 in respect of death or personal injury, the Seller's liability shall be unimited,
 agents or ontractors the Sellers liability shall be limited to an anount of 55 million

9.8.3 in respect of all other direct loss (whether in contract, tort, or otherwise) the Seller's
liability shall not exceed 55 million; a
8.4.4 in respect of any loss goodvill or for any yppo
loss or damage the sellers

The Sossor or damage the Seler's liability shall be nil. by reason of any delay in performing, or any failure to perform, any of the Seller's
 beyond the Seler's'reasonable control. The following shall (without limitation
9.9.1 ae regarded a d a cause beyond the Selleres resion, foosod, tempeste contr fre or accident
9.9.2 war or threat of war, sabolage, insurrection, teroroism, civil disturbance of
9.9.3 acts, restrictions, regulations, bye-laws, probibitions or measures of any kind on the
parto f any governmenal, pariamentary or ocal luuthority;
9.9.4 import or export regulations or embargoes;
9.9.5 strikes, lock-outs or other industrial actions
strikes, Iock-outs or other industrial actions or traded disputes (whether involvins 6 employeces of the Seller or of a dirird party);
9.9 .7 power ailiur or breakkown in machin
SPEIFIC ATIONS AND INSTRCTIONS
10. SPECIFICATIONS AND INTRUCTTIONS

 obligation as to manufacture of the Goods under the Contract.
INTELLECTUAL PROPERTY
 the Buyer the Sellers sopyright and property and shall tall 1 limes be teateded by the Buyer
as confidential and shall not without the rior witten consent of the seler be used by the Byyer excep for the purposes of the Contract. 1.2 The Buyer will indemmity the Selleragainst all actions clims demands costs charges,
penalties, royalites and expenses arising directly or indirectly or inuurred by reason of

 Buyer to the Seller.
SOLVENCY OF BUYER
12. INSOLVENCY OF BUYER
12. This Condition applies if
12.1.1 Lhe Buyer makes any volutary y arangement with its creditiss or bbeing an
individual o o fimm becomes bankrupt or of being a company becomes subject to an administration order or ocos into liquidation (othervisis than sot the pupposes

12.12 a en encumbrancer takes $p$ poss
12.1.3 the Buyer ceases, or threatens to case, 10 carry on business; or
12.1.4 the Seler reasonably apprenend stat any of the events mention

Occur in relation to the Byyer and notifies the Buyera acorrtingly.
2 If this Condition applies sten, without prejudicicto any other right or remedy avialable
to the Seller, the Seller shall be enituted to cancel the contract and suspend any further

been delivered but not paid for al ol of the Seler's outstanding invoices to the Buyer become
immediately due and payable nowwibstanding any revious asgeement o oranangemento to the
13. GENERRAL

Conditions shanl be bin writing addressesed to that otherer party y t bis segesistered office or
principipal place of business or such other adderss as may at his revevanat time have been
notified pursuant to this provision to the party $y$ ving the notice.
 shal rememin in full lofore in and derfect
1.3. No waiver by the Seller of any breach of the contract by the Buyer sha
waiver of any subsequent breach of the same or any other provision.

Waiver of any subsequent breach of the same or any other provision.


5 These Conditions constitute the e eniric contrat between the parties 5 the extent that the
subject mater is deat with herein and may only be varicd or modified in writing under the subject mater is deal with herein and may only be varic
hands of the partics or their authorised represesmatives.
hands of he partics or their authorised represenatives. , The contract stall be governed by the laws of England, and the Buyer agres to submit


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
Came Nord
Cologno Monzese - Milano - Italy
Came Sud
Napoli - Italy

Came France
Nanterre Cedex - Paris - France
Came Automatismes
Marseille - France

Came Automatismos
Madrid - Spain

Came Automatismos Catalunya
Sant Vicenç Dels Horts - Barcelona - Spain

## Came Galizia

A Coruña - Spain

Came Portugal
Rio de Mouro - Lisbon - Portugal

Came Belgium
Lessines - Belgium

Came GmbH Seefeld
Berlin - Germany
Came GmbH
Stuttgart - Germany
Came Americas Automation
Miami - USA

Came Middle East
Dubai - UAE
Came PL
Warszawa - Poland

Came Romania
Bucarest - Romania
Came Russia
Mosca - Russia
Came Shanghai
Shanghai - China

Urbaco sa
Entraigues - France

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Fax-0115 9210431


[^0]:    Automatic chain barriers may be connected to dififerent access control systems to Cdentiry
    memorise, clear for entrance and exit only memorise, clear for entrance and exit only
    authorised personnel. This lets you manage
    transit in different company departments or transit in different company departments other types of collective structures.

[^1]:    Accessories
    Safety control pages 160
    Safety pages 166-175

[^2]:    The Gard series also features models with 24V D.C motors, which always yield maximum performance without compromising safety

[^3]:    The Gard series also features models with 24 V D. operators, which always yield maximum performance without compromising safety

[^4]:    Dimensions in miliimetres $(25.4 \mathrm{~mm}=1 \mathrm{in})$

[^5]:    Dimensions in millimetres ( $25.4 \mathrm{~mm}=1 \mathrm{in}$ )

[^6]:    Dimensions in millimetres ( $25.4 \mathrm{~mm}=1 \mathrm{in}$ )

[^7]:    Photocell mounting is simple, thanks to the range of modular aluminium columns
    Elegant and accurate in design, they
    are always are always perfectly integrabie in any applicable context.

[^8]:    Example of perimeter
    $A=D B C O 1$ receiver
    $B=D B C 1$ transmitter
    
    $C=D B C O 3$ repeater
    $D=D B C 04$ repeater

[^9]:    The ZR24 is the CAME control panel
    specifically designed to be installed on
    rolling shutters. The container's compact speciricaly designed to be installed on
    rolling shuters. The containers compact
    size makes it easy to install and compis size makes it easy to install and commission
    for remote control and to connect up to the sor remote control and to connect up to the
    safery devics, thus making it compliant with
    current tecchnical standards. Satety devices, thus making
    current technical standards.

[^10]:    The 24 V power supply makes for an easy installa-
    tion procedure and is at the same time a guarantee of tion procedure and is at the same time a guarantee of
    safety for the user.

[^11]:    The 24 V power supply makes for an easy installatio
    procedure and is at the same time a guarantee of procedure and is at the same time a guarantee of safety for the user.

[^12]:    Smart lateral fences.
    To elegantryly complimen
    turnstiles, revolving
    turnstiles, revolving pedestrian

