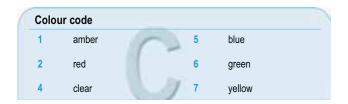


# **Product Overview 2013**









osition lette	er code
	5 <sup>th</sup> position from base
180	4 <sup>th</sup> position from base
- 11	3 <sup>th</sup> position from base
	2 <sup>nd</sup> position from base
- 12	1st position from base
= Base mo	unted on modules

ACCESSORIES								
Туре	Nominal Voltage (V)	Order No.						
Bulb, BA15d								
GL01	12 V, 5 W	890 010 904						
GL02	24 V, 6,5 W	890 010 905						
GL03	48 V, 5 W	890 010 908						
GL04	60 V, 7 W	890 010 909						
GL05	110/120 V, 7 W	890 010 910						
GL06	230/240 V, 6 W	890 010 913						
GL11	12 V, 4 W	890 012 904						
GL12	24 V, 4 W	890 012 905						
GL15	110/120 V, 4 W	890 012 910						
GL16	230/240 V, 4 W	890 012 913						
Bulb, BA15d, 25 W								
GL21	12 V	890 025 904						
GL22	24 V	890 025 905						
GL23	48 V	890 025 908						
GL25	110/120 V	890 025 910						
GL26	230/240 V	890 025 913						
LLL - LED bulb, BA	15d, steady light							
	12 V AC/DC	893 00 <b>C</b> 404						
	24 V AC/DC	893 00 <b>C</b> 405						
	48 V AC/DC	893 00 <b>C</b> 408						
	110/120 V AC	893 00 <b>C</b> 310						
	230/240 V AC	893 00 <b>C</b> 313						
LLB - LED bulb, BA1	5d, flashing light							
	12 V AC/DC	893 01 <b>C</b> 404						
	24 V AC/DC	893 01 <b>C</b> 405						
	48 V AC/DC	893 01 <b>C</b> 408						
	110/120 V AC	893 01 <b>C</b> 310						
	230/240 V AC	893 01C 313						



# **New Products 2013**









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LED Bulbs – Flashing Light **LLB** 

Notizen

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Bells UWS - FWS

Electronic Multitone Sirens ES1 - ES2

Multi Tone Alarm Sounders "A"



The 2013 Product Overview brochure at hand has been specifically extended and completed with product and technical information for the North American and other markets using mainly 110/120 V products.

Furthermore additionally available accessories for individual products are shown in the order data section to specify complete product solutions as easily as possible. Available voltages/product options not shown in the order data are also clearly described below the order data sections to understand the complete available range; all individual product data can be retrieved and found easily in our web page any time (www.auer-signal.com).

A new beacon series "P" – a 75 mm diameter LED or xenon beacon range with high IP67 ingress protection has been launched and perfectly completes our range of smaller/mid-sized beacons. High and low lens options, various mountings and particular models such as LED multi strobe beacons (two LED strobe patterns switchable via the terminal) or multi colour beacons further complement our range of visual signalling products.

The popular N-series 90 mm diam. beacon range has been extended with powerful HIGH PERFORMANCE models of NFS-HP LED multi strobe and NMS-HP multi colour beacon models.

Also the M22 panel mount range now comprises LED strobe beacons (ICL and ICM with 2 strobe patterns switchable via the terminal) as well as prewired 3 colour beacons IML and IMM in 65 and 45 mm beacon sizes.

The popular 50 mm signal tower range has been completed with integrated LED modules for steady, flashing, single strobe and multi strobe light functions.

We look forward to continuing our excellent and successful cooperation with our customers and distributors and appreciate your contacting us at any time. We will be glad to serve you and guide you for any questions you may have with regard to products, order data, etc.

Thank you for your attention and your continued trust in our range of signalling products and signalling solutions!

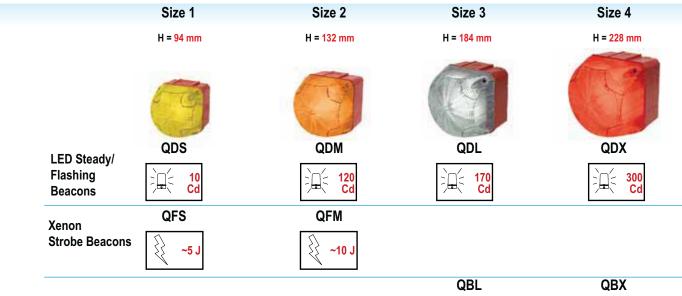
For further information please visit www.auer-signal.com

Your Signalling Solution!



# Beacons "Q"

LED Steady/Flashing Beacons "Q" Xenon Strobe Beacons "Q" LED Multi Strobe Beacons "Q"



**LED Multi Strobe Beacons** 

#### **Features**

Comprehensive range of cubic design beacons in LED and xenon technique

## In modern LED strobe technique

(long lifetime, low current consumption, vibration proof)

- LED steady/flashing beacons in sizes 1-4
- LED multi strobe beacons in sizes 3-4 most modern LED technique with high signalling effect 3 strobe patterns (double, 6-times, multi) externally switchable

## In conventional xenon strobe technique

(classic signalling with good signalling effect)

- xenon strobe beacons in sizes 1-2
- ▶ For applications in the industry, process control, fire/gas alarm, marine, etc.
- By combining e.g. LED steady beacons (up to 4 sizes) traffic control signals (eg red-amber-green) but also individual colour combinations for industrial or general applications can be realized
- Unique beacon/lens design
- Versatile installation and mounting options
- Fit for plc applications (leakage, inrush current)







Besides the use of "Q" beacons as single beacons one can also combine same sized "Q" beacons - for example to a traffic light solution.

To combine 2 beacons you require accessory type "AMK" – mounting kit for combinations of multi tone alarm sounders "A" and/or beacons "Q".

## Typical example:

Combination of QDM - LED steady/flashing beacon (size 2), 230/240 V AC for red-amber-green.

Туре	Order no.	Product
QDM	874 262 413	LED steady/flashing beacon - size 2, red
QDM	874 261 413	LED steady/flashing beacon - size 2, amber
QDM	874 266 413	LED steady/flashing beacon - size 2, green
AMK	874 010 900	2 pcs. mounting kit for combination of multi tone alarm sounders "A" and/or beacons "Q"

For detailed information regarding accessories and installation options please refer to page 64/66.

The Candela values refer to colour clear (white) at 230 V operating voltage and a measuring angle of 1° in axial direction.













Туре	Denomination	Light source	Nominal voltage (V)	Voltage range (V)	Nominal current (A)	Order No. Housing red	Price
			24 V AC/DC		0,110	874 16C 405	
QDS	LED steady/flashing beacon size 1	LED	48 V AC/DC	+/- 10%	0,065	874 16 <b>C</b> 408	
QDS	amber, red, yellow	10 Cd	110/120 V AC	<del>+</del> /- 10 %	0,060	874 16C 310	
			230/240 V AC		0,060	874 16C 313	
			24 V AC/DC		0,110	874 16C 405	
000	LED steady/flashing beacon	LED	48 V AC/DC	. / 400/	0,065	874 16C 408	
QDS	size 1 clear, blue, green	10 Cd	110/120 V AC	+/- 10%	0,060	874 16C 310	
			230/240 V AC		0,060	874 16C 313	
QDM	LED steady/flashing beacon size 2	LED 120 Cd	24-48 V AC/DC	16-60 V DC 16-53 V AC	max. 0,300	874 26C 408	
	amber, red, yellow	120 Ca	110-240 V AC/DC	80-265 V AC/DC	max. 0,070	874 26C 413	
QDM	LED steady/flashing beacon size 2	LED 120 Cd	24-48 V AC/DC	16-60 V DC 16-53 V AC	max. 0,300	874 26 <b>C</b> 408	
	clear, blue, green	120 Cu	110-240 V AC/DC	80-265 V AC/DC	max. 0,070	874 26C 413	
QDL	LED steady/flashing beacon size 3	LED 170 Cd	24-48 V AC/DC	18-60 V DC 18-53 V AC	max. 0,780	874 36 <b>C</b> 408	
	amber, red, clear, yellow	170 Cd	110-240 V AC/DC	80-265 V AC/DC	max. 0,210	874 36C 413	
QDL	LED steady/flashing beacon size 3	LED 170 Cd	24-48 V AC/DC	18-60 V DC 18-53 V AC	max. 0,780	874 36 <b>C</b> 408	
	blue, green	170 Cd	110-240 V AC/DC	80-265 V AC/DC	max. 0,210	874 36C 413	
QDX	LED steady/flashing beacon size 4	LED 300 Cd	24-48 V AC/DC	18-60 V DC 18-53 V AC	max. 1,800	874 46 <b>C</b> 408	
	amber, red, clear, yellow	300 Ca	110-240 V AC/DC	80-265 V AC/DC	max. 0,035	874 46C 413	
QDX	LED steady/flashing beacon size 4	LED 300 Cd	24-48 V AC/DC	18-60 V DC 18-53 V AC	max. 1,800	874 46C 408	
	blue, green	300 Cd	110-240 V AC/DC	80-265 V AC/DC	max. 0,035	874 46C 413	
			24-48 V AC/DC	18-53 V AC/DC	0,450	874 56 <b>C</b> 408	
QFS	Xenon strobe beacon	xenon tube	110/120 V AC		0,150	874 56 <b>C</b> 310	
	size 1	5 J	230/240 V AC	+/- 10%	0,075	874 56 <b>C</b> 313	
			24-48 V AC/DC	18-53 V AC/DC	0,900	874 66 <b>C</b> 408	
QFM	Xenon strobe beacon	xenon tube	110/120 V AC		0,260	874 66C 310	
	size 2	10 J	230/240 V AC	+/- 10%	0,160	874 66C 313	
QBL	LED multi strobe beacon size 3	LED	24-48 V AC/DC	18-60 V DC 18-53 V AC	max. 0,810	874 76C 408	
	amber, red, clear, yellow	250 Cd	110-240 V AC/DC	80-265 V AC/DC	max. 0,220	874 76 <b>C</b> 413	
QBL	LED multi strobe beacon size 3	LED	24-48 V AC/DC	18-60 V DC 18-53 V AC	max. 0,810	874 76 <b>C</b> 408	
	blue, green	250 Cd	110-240 V AC/DC	80-265 V AC/DC	max. 0,220	874 76 <b>C</b> 413	
QBX	LED multi strobe beacon size 4	LED	24-48 V AC/DC	18-60 V DC 18-53 V AC	max. 1,700	874 86C 408	
	amber, red, clear, yellow	400 Cd	110-240 V AC/DC	80-265 V AC/DC	max. 0,400	874 86C 413	
QBX	LED multi strobe beacon size 4	LED	24-48 V AC/DC	18-60 V DC 18-53 V AC	max. 1,700	874 86C 408	
GRX	size 4 blue, green	400 Cd	110-240 V AC/DC	80-265 V AC/DC	max. 0,400	874 86 <b>C</b> 413	

# Modular Beacon Series "M"





MLM - MBM - MFM - MRM



Ø 120 mm

MLS - MBS - MFS - MRS



Steady Beacons MLL - MLM - MLS Flashing Beacons MBL - MBM - MBS Xenon Strobe Beacons MFL - MFM - MFS Rotating Mirror Beacons MRL - MRM - MRS

## **Features**

- Powerful, modular beacon system 3 sizes (Ø 160, mm, 120 mm and 90 mm)
  - 4 types of mounting (horizontal, vertical, pole, magnet)
  - 4 functions/beacon types (steady, flashing, xenon strobe, rotating light)
  - 2 lens types (fresnel, smooth)
- Easy to mount and service
- Function module can be changed without tools (bayonet system)
- Cable entry: bottom grommet or cable gland M20 x 1,5
- Additional safety screw that lens cannot be lost
- Distinct fresnel lens pattern excellent light distribution
- Rotating mirror models:
  - synthetic bearings high operating safety (no corrosion)
  - mirror speed 90 or 180 rpm selectable
  - speed monitoring by photo cell



























160 mm

Туре	Denomination	Light source	Nominal Voltage voltage (V) range (V)	Voltage Nominal		Order No. Housing black				
	Denomination			range (V)	current (A)	Horizontal base	Pole mount base M20	Pole mount base NPT 1"	Price	
		50 W halogen bulb (included)	24 V AC/DC		2,100	819 10 <b>C</b> 405	819 30 <b>C</b> 405	819 31 <b>C</b> 405		
MLL	Steady beacon		110/120 V AC	+/- 10%	0,420	819 10 <b>C</b> 310	819 30 <b>C</b> 310	819 31 <b>C</b> 310		
			50 W halogen 230/2	230/240 V AC		0,210	819 10 <b>C</b> 313	819 30 <b>C</b> 313	819 31 <b>C</b> 313	
			24 V AC/DC		2,100	839 10 <b>C</b> 405	839 30 <b>C</b> 405	839 31 <b>C</b> 405		
MBL	Flashing beacon		110/120 V AC	+/- 10%	0,420	839 10 <b>C</b> 310	839 30 <b>C</b> 310	839 31C 310		
			230/240 V AC	240 V AC	0,210	839 10 <b>C</b> 313	839 30 <b>C</b> 313	839 31 <b>C</b> 313		
			24 V AC/DC		1,900	849 10 <b>C</b> 405	849 30 <b>C</b> 405	849 31C 405		
MFL	Xenon strobe beacon	30 J xenon tube (included)	110/120 V AC	+/- 10%	0,900	849 10 <b>C</b> 310	849 30 <b>C</b> 310	849 31 <b>C</b> 310		
		(moradou)	230/240 V AC		0,350	849 10 <b>C</b> 313	849 30 <b>C</b> 313	849 31 <b>C</b> 313		
			24 V AC/DC		2,300	419 10 <b>C</b> 405	419 30 <b>C</b> 405	419 31 <b>C</b> 405		
MRL	RL Rotating mirror beacon 50 W halogen bulb (included)	•	110/120 V AC	+/- 10%	0,500	419 10 <b>C</b> 310	419 30 <b>C</b> 310	419 31 <b>C</b> 310		
		buib (included)	230/240 V AC	240 V AC	0,390	419 10 <b>C</b> 313	419 30 <b>C</b> 313	419 31 <b>C</b> 313		

NOTE: Product also available in voltage 12 V AC/DC

Туре	Denomination	Order No.	Price
	Accessories for models with horizontal mounting		
WML	Metal bracket for wall mounting, black	819 200 900	
	Bonding kit for conduit installations	819 201 900	
	Mounting plate for UL type 4/4X/13	819 202 900	
MGL	Magnetic mount	819 203 900	
AKV	Cable gland M20x1,5	698 800 026	





120 mm

Туре	Denomination	Light	Nominal Voltage		Nominal		Price		
	Denomination	source	voltage (V)	range (V)	current (A)	Horizontal base	Pole mount base M20	Pole mount base NPT 1/2"	FIICE
		35 W halogen bulb (included)	24 V AC/DC		1,500	818 10 <b>C</b> 405	818 30 <b>C</b> 405	818 31C 405	
MLM	Steady beacon		110/120 V AC	+/- 10%	0,290	818 10 <b>C</b> 310	818 30 <b>C</b> 310	818 31 <b>C</b> 310	
			230/240 V AC	0,150	818 10 <b>C</b> 313	818 30 <b>C</b> 313	818 31 <b>C</b> 313		
			24 V AC/DC	AC +/- 10%	1,500	838 10 <b>C</b> 405	838 30 <b>C</b> 405	838 31C 405	
MBM	Flashing beacon		110/120 V AC		0,290	838 10 <b>C</b> 310	838 30 <b>C</b> 310	838 31 <b>C</b> 310	
			230/240 V AC		0,150	838 10 <b>C</b> 313	838 30 <b>C</b> 313	838 31 <b>C</b> 313	
			12-24 V AC/DC		0,800 (24 V)	848 10 <b>C</b> 405	848 30 <b>C</b> 405	848 31C 405	
MFM	Xenon strobe beacon	15 J xenon tube (included)	110/120 V AC	+/- 10%	0,300	848 10 <b>C</b> 310	848 30 <b>C</b> 310	848 31 <b>C</b> 310	
		(moladou)	230/240 V AC		0,150	848 10 <b>C</b> 313	848 30 <b>C</b> 313	848 31 <b>C</b> 313	
			24 V AC/DC		1,700	418 10 <b>C</b> 405	418 30 <b>C</b> 405	418 31C 405	
MRM	Rotating mirror beacon	35 W halogen bulb (included)	110/120 V AC	+/- 10%	0,320	418 10 <b>C</b> 310	418 30 <b>C</b> 310	418 31C 310	
		baib (included)	230/240 V AC		0,170	418 10 <b>C</b> 313	418 30 <b>C</b> 313	418 31 <b>C</b> 313	

NOTE: Product also available in voltage 12 V AC/DC

Туре	Denomination	Order No.	Price
	Accessories for models with horizontal mounting		
WMM	Metal bracket for wall mounting, black	818 200 900	
	Bonding kit for conduit installations	819 201 900	
	Mounting plate for UL type 4/4X/13	818 202 900	
MGM	Magnetic mount	818 203 900	
AKV	Cable gland M20x1,5	698 800 026	
	Accessories for models with pole mounting		
	Aluminium tube with plastic foot, 50 mm, black	698 806 007	
мир	Aluminium tube with plastic foot, 100 mm, black	698 806 008	
MMR	Aluminium tube with plastic foot, 250 mm, black	698 806 009	
	Aluminium tube with plastic foot, 400 mm, black	698 806 010	
	Stainless steel tube with zinc die-cast foot, powder coated, 50 mm, black	698 806 021	
MCD	Stainless steel tube with zinc die-cast foot, powder coated, 100 mm, black	698 806 022	
MSR	Stainless steel tube with zinc die-cast foot, powder coated, 250 mm, black	698 806 023	
	Stainless steel tube with zinc die-cast foot, powder coated, 400 mm, black	698 806 024	





90 mm

Туре	Donomination	Light	Nominal Voltage		Nominal		Price		
	Denomination	source	voltage (V)	range (V)	current (A)	Horizontal base	Pole mount base M20	Pole mount base NPT 1/2"	FIICE
		20 W halogen bulb (included)	24 V AC/DC		0,830	817 10 <b>C</b> 405	817 30 <b>C</b> 405	817 40C 405	
MLS	Steady beacon		110/120 V AC +/- 10% 230/240 V AC	+/- 10%	0,170	817 10 <b>C</b> 310	817 30 <b>C</b> 310	817 40C 310	
					0,085	817 10 <b>C</b> 313	817 30 <b>C</b> 313	817 40C 313	
			24 V AC/DC		0,830	837 10 <b>C</b> 405	837 30 <b>C</b> 405	837 40C 405	
MBS	Flashing beacon		110/120 V AC	+/- 10%	0,170	837 10 <b>C</b> 310	837 30 <b>C</b> 310	837 40C 310	
			230/240 V AC	40 V AC	0,085	837 10 <b>C</b> 313	837 30 <b>C</b> 313	837 40 <b>C</b> 313	
			12-24 V AC/DC		0,480 (24 V)	847 10C 405	847 30 <b>C</b> 405	847 40C 405	
MFS	Xenon strobe beacon	7 J xenon tube (included)	110/120 V AC	+/- 10%	0,210	847 10C 310	847 30 <b>C</b> 310	847 40C 310	
		(moladod)	230/240 V AC		0,120	847 10 <b>C</b> 313	847 30 <b>C</b> 313	847 40C 313	
			24 V AC/DC		0,950	417 10 <b>C</b> 405	417 30 <b>C</b> 405	417 40C 405	
MRS	MRS Rotating mirror beacon	20 W halogen bulb (included)	110/120 V AC	+/- 10%	0,300	417 10 <b>C</b> 310	417 30 <b>C</b> 310	417 40C 310	
	baib (iliciaaea)	230/240 V AC		0,270	417 10 <b>C</b> 313	417 30°C 313	417 40° 313		

NOTE: Product also available in voltage 12 V AC/DC

Туре	Denomination	Order No.	Price
	Accessories for models with horizontal mounting		
WMS	Metal bracket for wall mounting, black	817 200 900	
	Bonding kit for conduit installations	819 201 900	
	Mounting plate for UL type 4/4X/13	817 202 900	
MGS	Magnetic mount	817 203 900	
AKV	Cable gland M20x1,5	698 800 026	
	Accessories for models with pole mounting		
	Aluminium tube with plastic foot, 50 mm, black	698 806 007	
MMD	Aluminium tube with plastic foot, 100 mm, black	698 806 008	
MMR	Aluminium tube with plastic foot, 250 mm, black	698 806 009	
	Aluminium tube with plastic foot, 400 mm, black	698 806 010	
	Stainless steel tube with zinc die-cast foot, powder coated, 50 mm, black	698 806 021	
Men	Stainless steel tube with zinc die-cast foot, powder coated, 100 mm, black	698 806 022	
MSR	Stainless steel tube with zinc die-cast foot, powder coated, 250 mm, black	698 806 023	
	Stainless steel tube with zinc die-cast foot, powder coated, 400 mm, black	698 806 024	

# Steady/Flashing/Strobe Beacon WLG - BKG - FLG LED Steady/LED Flashing Beacon DLG - BLG

WLG - BKG - FLG

DLG - BLG



## **Features**

- Bayonet locking, easy opening (push button)
- WLG/BKG: easy bulb change without tools
- DLG/BLG: 48 LEDs excellent brightness
- Shock and vibration proof, maintenance free, long lifetime
- Inrush current limitation, EMC-proof, wide voltage range









# **LED Light Bar ILL42**

## ILL42



## **Features**

- LED illumination with excellent light output
- For universal applications (e.g. work places, cabines, etc.)
- Switched mode power supply for constant light output though changing voltages
- Models with and without built-in on/off switch
- Long lifetime (> 30.000 h), vibrationproof













Type	Denomination	Light	Nominal	Voltage	Nominal	Orde	er No.	Price
туре	Denomination	source	voltage (V)	range (V)	current (A)	Housing grey	Housing black	FIICE
WLG	Steady beacon		up to 250 V AC/DC	+/- 10%		822 10 <b>C</b> 900	822 50 <b>C</b> 900	
		25 W bulb	12-48 V AC/DC		0,700	832 10 <b>C</b> 408	832 50 <b>C</b> 408	
BKG	Flashing beacon	GL21 - 26	110/120 V AC	+/- 10%	0,200	832 10 <b>C</b> 310	832 10 <b>C</b> 310	
			230/240 V AC		0,100	832 10 <b>C</b> 313	832 50 <b>C</b> 313	
			24 V AC/DC		0,320	842 14C 405	842 54 <b>C</b> 405	
FLG	Xenon strobe beacon	5J xenon tube (included)	110/120 V AC	+/- 10%	0,200	842 14C 310	842 54C 310	
		(	230/240 V AC		0,100	842 13C 313	842 53C 313	
	LED steady beacon amber, red, yellow		24 V AC/DC	17-32 V DC 17-26 V AC	0,200 0,200	827 10 <b>C</b> 405	827 50 <b>C</b> 405	
			110/120 V AC	+/- 10%	0,060	827 10 <b>C</b> 310	827 50C 310	
			230/240 V AC		0,060	827 10 <b>C</b> 313	827 50 <b>C</b> 313	
DLG	LED steady beacon		24 V AC/DC	17-32 V DC 17-26 V AC	0,200 0,220	827 10 <b>C</b> 405	827 50 <b>C</b> 405	
	clear, blue, green		110/120 V AC	+/- 10%	0,060	827 10 <b>C</b> 310	827 50 <b>C</b> 310	
		LED	230/240 V AC	T/- 10 /0	0,060	827 10 <b>C</b> 313	827 50C 313	
	LED flashing beacon	(included)	24 V AC/DC	17-32 V DC 17-26 V AC	0,200 0,220	807 10 <b>C</b> 405	807 50 <b>C</b> 405	
	amber, red, yellow		110/120 V AC	+/- 10%	0,060	807 10 <b>C</b> 310	807 50C 310	
			230/240 V AC	+/- 10%	0,060	807 10 <b>C</b> 313	807 50 <b>C</b> 313	
BLG	LED flashing beacon		24 V AC/DC	17-32 V DC 17-26 V AC	0,200 0,220	807 10 <b>C</b> 405	807 50 <b>C</b> 405	
	clear, blue, green		110/120 V AC	±/ 100/	0,060	807 10 <b>C</b> 310	807 50 <b>C</b> 310	
	. •		230/240 V AC	+/- 10%	0,060	807 10 <b>C</b> 313	807 50C 313	

DLG/BLG: also available in voltages 12 V and 48 V AC/DC NOTE:

WLG/BKG: GL21-GL26 bulbs 25 W have to be ordered separately

Туре	Denomination	Order No.	Price
WIG	Metal bracket for wall mounting	822 200 900	



Туре	Denomination	Light source	Nominal voltage (V)	Voltage range (V)	Nominal current (A)	Order No.	Price
11.1.42	LED steady light bar	LED	24-48 V AC/DC	17-73 V DC 17-54 V AC	<0,530	805 100 405	
ILL42	ILL42  LED steady light bar without on/off switch IP 44  LED steady light bar with on/off switch IP 40		110-240 V AC/DC	90-250 V DC 90-250 V AC	<0,130	805 100 413	
11.1.42			24-48 V AC/DC	17-73 V DC 17-54 V AC	<0,530	805 110 405	
ILL42			110-240 V AC	90-250 V AC	<0,130	805 110 413	

## Beacons Series "N"



## **HIGH PERFORMANCE models**

By using the most modern high performance LEDs in combination with intelligent electronics these models are specifically suitable for

- Highest signalling effect
- Dutside applications clear signalling effect also in bright
- Optimal signalling effect in extremely dangerous situations/ applications, etc.

## **Features NFS-HP**

- 3 LED strobe patterns switchable via the terminal: LED double strobe, LED 6-times strobe sequence and a LED multi strobe pattern
- Selection of the most suitable LED strobe pattern for the application respectively
- Signalling of different danger stages by switching different LED strobe patterns, etc.



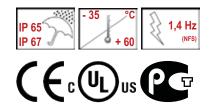
- LED Strobe/Double Strobe Beacons NFS
- **LED Multi Colour Beacons NMS**
- LED Multi Strobe Beacons-HP NFS-HP
- LED Multi Colour Beacons-HP NMS-HP

## Features NES, NFS

- Wide voltage range due to switched mode power supply technique (NES, NFS)
- Very good brightness highest optical efficiency
- Absolutely shock and vibration proof, maintenance free
- Long lifetime min. 50.000 h
- 4 mounting options (horizontal, vertical, pole, magnet)
- Inrush current limitation, EMC-proof, leakage up to 3 mA possible

## **Features NMS**

- LED steady light, green-red-yellow
- LED flashing light, green-red-yellow
- LED alternate flashing light: green-red, green-yellow, red-yellow, green-red-yellow







## **Features NMS-HP**

- ▶ Selection of the most suitable signal colour RED-YELLOW-GREEN for the application as LED steady light only
- ▶ Signalling different application stages by using different LED colours
- External colour selection via the terminal















Type	Denomination	Light	Nominal	Voltage	Nominal		Order No. Housing black		Price	
Турс	Denomination	source	voltage (V)	range (V)	current (A)	Horizontal base	Pole mount M20	Pole mount NPT 1/2"	THOC	
	LED steady/flashing beacon amber, red, yellow		12-24 V AC/DC	11-30 V DC 11-26 V AC	max. 0,310 max. 0,400	440 10 <b>C</b> 405	440 30 <b>C</b> 405	440 40 <b>C</b> 405		
			24-48 V AC/DC	16-80 V DC 16-60 V AC	max. 0,270	440 10 <b>C</b> 408	440 30 <b>C</b> 408	440 40 <b>C</b> 408		
		LED	110-240 V AC/DC	80-265 V AC/DC	max. 0,040	440 10C 413	440 30C 413	440 40C 413		
NES	.==	LED	12-24 V AC/DC	11-30 V DC 11-26 V AC	max. 0,310 max. 0,400	440 10 <b>C</b> 405	440 30 <b>C</b> 405	440 40 <b>C</b> 405		
	LED steady/flashing beacon clear, blue, green		24-48 V AC/DC	16-80 VDC 16-60 V AC	max. 0,270	440 10 <b>C</b> 408	440 30C 408	440 40C 408		
			110-240 V AC/DC	80-265 V AC/DC	max. 0,040	440 10C 413	440 30C 413	440 40C 413		
	LED strobe/double strobe beacon amber, red, yellow	LED strobe/double strobe		24-48 V AC/DC	16-60 V DC 16-52 V AC	max. 0,220 max. 0,271	442 10 <b>C</b> 408	442 30C 408	442 40C 408	
			110/120 V AC	+/- 10%	max. 0,074	442 10C 310	442 30C 310	442 40C 310		
	amber, red, yellow	LED louble strobe	230/240 V AC	+/- 10%	max. 0,0704	442 10C 313	442 30C 313	442 40C 313		
NFS	LED strobe/double strobe		24-48 V AC/DC	16-60 V DC 16-52 V AC	max. 0,220 max. 0,271	442 10 <b>C</b> 408	442 30 <b>C</b> 408	442 40 <b>C</b> 408		
	beacon clear, blue, green		110/120 V AC	+/- 10%	max. 0,074	442 10C 310	442 30C 310	442 40C 310		
	dear, blue, green		230/240 V AC	+/- 10%	max. 0,074	442 10C 313	442 30C 313	442 40C 313		
	LED multi strobe beacon HIGH PERFORMANCE		24-48 V AC/DC	16-65 V DC 16-52 V AC	max. 0,660 max. 0,770	442 15 <b>C</b> 408	442 35 <b>C</b> 408	442 45 <b>C</b> 408		
NFS-	amber, red, clear, yellow	LED	110-240 V AC/DC	80-265 V AC/DC	max. 0,170	442 15C 413	442 35C 413	442 45C 413		
HP	LED multi strobe beacon HIGH PERFORMANCE	LED	24-48 V AC/DC	16-65 V DC 16-52 V AC	max. 0,660 max. 0,770	442 15 <b>C</b> 408	442 35 <b>C</b> 408	442 45 <b>C</b> 408		
	blue, green		110-240 V AC/DC	80-265 V AC/DC	max. 0,170	442 15C 413	442 35C 413	442 45C 413		
			24 V AC/DC	+/- 10%	max. 0,142	441 100 405	441 300 405	441 400 405		
NIMO	LED multi colour beacon	LED	48 V AC/DC	+/- 10%	max. 0,111	441 100 408	441 300 408	441 400 408		
NMS	green-red-yellow	LED	110/120 V AC	+/- 10%	max. 0,103	441 100 310	441 300 310	441 400 310		
			230/240 V AC	+/- 10%	max. 0,100	441 100 313	441 300 313	441 400 313		
NMS-	LED multi colour beacon HIGH PERFORMANCE	LED	24-48 V AC/DC	16-65 V DC 16-52 V AC	max. 0,180 max. 0,230	441 150 408	441 350 408	441 450 408		
HP	green-red-yellow		110-240 V AC/DC	80-265 V AC/DC	max. 0,050	441 150 413	441 350 413	441 450 413		

Туре		Denomin	ation		Order No.	Price
WMS	Bracket				817 200 900	
MGS	Magnetic mount				817 203 900	
AKV	Cable gland M20x1,5				698 800 026	

# **Strobe Beacons BZL-BZG**

## **BZL - BZG**





Ø 72 mm

## **Features BZL**

▶ 5 or 15 J strobe energy available



## **Features BZG**

- ▶ 5 or 15 J strobe energy available
- ▶ BZG: aluminium die cast housing, epoxy-powder coated







Туре	Denomination	Light source	Nominal voltage (V)	Nominal current (V)	Nominal current (A)	Order No.	Price
			24 V DC		0,280	740 02 <b>C</b> 005	
		5 J xenon tube (included)	110/120 V AC	+/- 10%	0,010	740 01 <b>C</b> 310	
D.71	Strobo hoocon		230/240 V AC		0,050	740 01 <b>C</b> 313	
BZL	BZL Strobe beacon	15 J xenon tube (included)	24 V DC		0,700	740 04 <b>C</b> 005	
			110/120 V AC		0,550	740 03 <b>C</b> 310	
			230/240 V AC		0,230	740 03 <b>C</b> 313	
		5 J xenon tube	24 V AC/DC		0,280	741 01 <b>C</b> 405	
D70	BZG Strobe beacon	(included)	230/240 V AC	+/- 10%	0,040	741 01 <b>C</b> 313	
BZG		15 J xenon tube	24 V DC	17- 1076	0,700	741 04 <b>C</b> 005	
		(included)	230/240 V AC		0,230	741 03 <b>C</b> 313	

NOTE: BZL 5 J: also available in 12 V DC BZG 5 J also available in 12, 24 V DC, 12 V AC/DC BZG 5 and 15 Joule: 110/120 V AC upon request

# Beacons Series "P"

LED Steady/Flashing/Multi Strobe Beacons LED Multi Colour Beacons Xenon Strobe Beacons



Model Overview	Ø 75 mm high lens	Ø 75 mm Iow Iens
LED steady/flashing beacon	PCH	PCL
LED multi strobe beacon	PFH	PFL
LED multi colour beacon red-yellow-green	РМН	
Xenon strobe beacon	PXH	PXL

## **Features**

- Ø 75 mm large compact and brilliant beacon range
- High ingress protection
- Prewired with 1 m cable with PUR-jacket, open ends, ready to use
- Premounted stainless fixation screws
- Customized cable lengths/specifications possible
- Complete offering of beacons with modern LED technique (long lifetime, low current consumption, vibration-proof)
- ▶ LED multi strobe beacon with 2 LED strobe patterns (LED 6-times strobe/LED multi strobe), externally switchable
- ▶ LED multi colour beacons red-green with clear lens
- Models with high and low lens
- Xenon strobe models with voltage range 10-100 V AC/DC
- Mounting options horizontal (standard), vertical and pole mounting (accessory)
- Lens and base components made of high impact resistant polycarbonate
- Excellent price/performance ratio
- For use in industrial/process/general applications
- Fit for plc applications (leakage, inrush current)

## **Mounting options**

Horizontal mounting (standard)







## Vertical mounting

Accessory: plastic bracket (PVW)







## Pole mounting

Accessory: Pole mounting (PMR)

















Туре	Denomination	Light source	Nominal voltage (V)	Voltage range (V)	Nominal current (A)*	Order No. Housing black	Price
Models	s with high lens						
			24 V AC/DC		0,240	860 50 <b>C</b> 405	
PCH	LED steady/flashing beacon	integrated LEDs	110/120 V AC	+/- 10 %	0,095	860 50 <b>C</b> 310	
			230/240 V AC		0,095	860 50 <b>C</b> 313	
			24 V AC/DC		max. 0,360	860 51 <b>C</b> 405	
PFH	LED multi strobe beacon	integrated LEDs	110/120 V AC	+/- 10 %	0,095	860 51 <b>C</b> 310	
			230/240 V AC		0,095	860 51 <b>C</b> 313	
			24 V AC/DC			860 550 405	
PMH**	LED multi colour beacon red-yellow-green	integrated LEDs	110/120 V AC	+/- 10 %		860 550 310	
	rod yollow groon		230/240 V AC			860 550 313	
			24 V AC/DC		0,450	860 52 <b>C</b> 405	
	PXH Xenon strobe beacon		110/120 V AC	+/- 10 %	0,100	860 52C 310	
PXH		5 J xenon tube	230/240 V AC		0,050	860 52C 313	
			40,400 V/AC/DC	10-100 V DC	0,500	000 500 440	
			10-100 V AC/DC	10-70 V AC	0,500	860 52C 410	
Mode	Is with low lens						
			24 V AC/DC		0,060	861 50C 405	
PCL	LED steady/flashing beacon	integrated LEDs	110/120 V AC	+/- 10 %	0,030	861 50C 310	
			230/240 V AC		0,031	861 50C 313	
			24 V AC/DC		max. 0,155	861 51 <b>C</b> 405	
PFL	LED multi strobe beacon	integrated LEDs	110/120 V AC	+/- 10 %	0,045	861 51 <b>C</b> 310	
			230/240 V AC		0,045	861 51 <b>C</b> 313	
			24 V AC/DC		0,200	861 52 <b>C</b> 405	
			110/120 V AC	+/- 10 %	0,050	861 52C 310	
PXL	Xenon strobe beacon	2 J xenon tube	230/240 V AC		0,025	861 52C 313	
		ACTION TUDE	10 100 \/ AC/DO	10-100 V DC	0,200	004 500 440	
			10-100 V AC/DC	10-70 V AC	0,200	861 52C 410	

 $<sup>^{\</sup>star}$  provisional value  $^{\star\star}$  scheduled for end of 2013

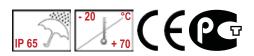
Туре	Denomination	Order No.	Price
PVW	Bracket for vertical mounting	860 600 900	
PMR	Pole mounting, 100 mm aluminium tube with plastic foot	ag 860 600 900 suminium tube with plastic foot 860 702 900	
FIVIR	Pole mounting, 250 mm aluminium tube with plastic foot	860 703 900	

# **LED Flashing Beacon BC1**



## **Features**

- Cost effective small LED flashing beacon
- Simple mounting, bayonet system



# Strobe Beacon XB2



## **Features**

- Cost effective small strobe beacon
- ▶ Simple mounting, optional mounting adapter included
- Prewired, ready to use







I			Light	Nominal	Voltage	Nominal	Orde	r No.	
	Туре	Denomination	source	voltage (V)	range (V)	current (A)	Housing red	Housing white	Price
	BC1	LED flashing beacon	LED	24 V DC	20-35	0,003-0,005	C112 62C 005	C112 22C 005	

NOTE: Lens colour: amber, red



Туре	Denomination	Light source	Nominal voltage (V)	Voltage range (V)	Nominal current (A)	Order No.	Price
		2 J	24 V DC		0,100	D118 52C 005	
XB2	Strobe beacon	xenon tube (included)	24 V AC	+/- 10%	0,120	D118 52C 305	
XB2			230 V AC		0,025	D118 52C 313	

NOTE: Lens colours amber, red on stock Also partially available in other colours and 12 V DC upon request

# Steady (LED Steady/Flashing) Beacon WLK Strobe Beacon FLK



## **Features**

- WLK steady beacon for 7 W incandescent bulb or LLL steady LED bulb
- WLK LED flashing beacon for LLB flashing LED bulb
- Easy bulb change without tools
- ▶ FLK strobe beacon
- Comprehensive mounting options













T	Btustis	Light	Nominal	Voltage	Nominal	Orde	r No.	D.:lea
Туре	Denomination	source	voltage (V)	range (V)	current (A)	Housing grey	Housing black	Price
	Steady beacon	7 W bulb (GL)						
WLK	LED steady beacon	LLL	up to 250 V AC/DC	+/- 10%		820 00	OC 900	
	LED flashing beacon	LLB	200 1 7 10/20					
BHW	Base for horizontal mounting					820 120 900	820 520 900	
BVW	Base for vertical mounting					820 130 900	820 530 900	
BRW	Pole mount base, on aluminium tube, 100 mm					820 102 900	820 502 900	
BWW	Pole mount base, on aluminium tube for horizontal mounting with screws, 100 mm					820 142 900	820 542 900	
BSS	Set for vertical mounting (bracket to BWW)					200 400 900	200 800 900	
BFW	Quick mount base, on aluminium tube with foot adapter for quick mount, 100 mm					820 152 900	820 552 900	
		1 J xenon tube	12-24 V AC/DC	+/- 10%	12 V: 0,120 24 V: 0,095	8/11 1101 / 1115		
FLK	Strobe beacon	(included)	110/120 V AC	+/- 10%	0,021	840 00	OC 310	
			230/240 V AC	+/- 10%	0,015	840 0	OC 313	
BHF	Base for horizontal mounting					840 101 900	840 501 900	
BVF	Base for vertical mounting					840 102 900	840 502 900	
BRF	Pole mount base, on aluminium, 100 mm					840 122 900	840 522 900	
BWF	Pole mount base, on aluminium tube for horizontal mounting with screws, 100 mm					840 152 900	840 552 900	
BSS	Set for vertical mounting (bracket to BWF)					200 400 900	200 800 900	
BFF	Quick mount base, on aluminium tube with foot adapter for quick mount, 100 mm					840 162 900	840 562 900	

NOTE: WLK - light sources (GL01-GL06) have to be ordered separately

Additional pole lengths optionally available

# M22 Panel Mount Beacons "I"

LED Steady/Flashing Beacons IBL - IBM - IBS **LED Strobe Beacons ICL - ICM - ISS** Xenon Strobe Beacons ISL - ISM

## LED Steady/Flashing Beacons



Ø 65 mm





**IBM** Ø 45 mm

**IBS** 

Ø 30 mm

## **LED Strobe Beacons**



Ø 65 mm





**ICM** Ø 45 mm



ISS Ø 30 mm

## **Features**

- Versatile and comprehensive M22 panel mount beacon series
- 3 sizes: Ø 65 mm, 45 mm and 30 mm
- Maintenance free (LED) long lifetime (~100.000 h) low nominal current, vibration proof
- Installation depth 34/47 mm depending on model
- new models ICL (Ø 65 mm) and ICM (Ø 45 mm) LED strobe light - 2 strobe patterns: LED double strobe/LED 6-time sequence, switching via terminal ISS-LED single strobe light
- Available light functions: LED steady or flashing light (IBL - IBM - IBS) LED strobe light (ICL - ICM - ISS) Xenon strobe light (ISL - ISM)











## **Xenon Strobe Beacons**



**ISL** Ø 65 mm



ISM Ø 45 mm

## **M22 Panel Mount Beacon** (In Built-In Condition)







Ø 65 mm

Ø 45 mm

Ø 30 mm





Type	Denomination	Light	Nominal	Voltage	Nominal	Orde	er No.	Price
туре	Denomination	source	voltage (V)	range (V)	current (A)	Housing grey	Housing black	FIICE
	LED steady/flashing beacon		24 V AC/DC		0,060	802 10C 405	802 50C 405	
	amber, red, yellow		110/120 V AC		0,030	802 10C 310	802 50C 310	
IBL	amber, rea, yenow	LED	230/240 V AC	+/- 10%	0,031	802 10C 313	802 50C 313	
65 mm Ø)	LED steady/flashing beacon	LED	24 V AC/DC	T/- 10 /0	0,060	802 10C 405	802 50C 405	
	clear, blue, green		110/120 V AC		0,030	802 10C 310	802 50C 310	
	cieai, biue, green		230/240 V AC		0,031	802 10C 313	802 50C 313	
	LED steady/flashing beacon		24 V AC/DC		0,037	801 10C 405	801 50C 405	
	amber, red, yellow		110/120 V AC		0,030	801 10C 310	801 50C 310	
IBM	ambor, rea, yenew	LED	230/240 V AC	+/- 10%	0,030	801 10C 313	801 50C 313	
45 mm Ø)	LED steady/flashing beacon	LLD	24 V AC/DC	1/- 10 /0	0,037	801 10C 405	801 50C 405	
	, ,		110/120 V AC		0,030	801 10C 310	801 50C 310	
	clear, blue, green		230/240 V AC		0,030	801 10C 313	801 50C 313	
	LED steady/flashing beacon		24 V AC/DC		0,026	800 10C 405	800 50C 405	
	amber, red, yellow		110/120 V AC		0,018	800 10C 310	800 50C 310	
IBS	amber, red, yellow	LED	230/240 V AC	+/- 10%	0,019	800 10C 313	800 50C 313	
30 mm Ø)	LED stoody/flooking become	LED	24 V AC/DC	<del>+</del> /- 10%	0,026	800 10C 405	800 50C 405	
,	LED steady/flashing beacon		110/120 V AC		0,018	800 10C 310	800 50C 310	
	clear, blue, green		230/240 V AC		0,019	800 10 <b>C</b> 313	800 50C 313	
	150		24 V AC/DC		max. 0,155	802 12C 405	802 52 <b>C</b> 405	
	LED strobe beacon 2 strobe patterns, amber, red, yellow		110/120 V AC		0,045	802 12C 310	802 52C 310	
ICL		LED	230/240 V AC	+/- 10%	0,045	802 12C 313	802 52C 313	
65 mm Ø)	LED strobe beacon 2 strobe patterns, clear, blue, green	LED	24 V AC/DC	+/- 10%	max. 0,155	802 12C 405	802 52C 405	
			110/120 V AC		0,045	802 12C 310	802 52C 310	
	2 strobe patterns, clear, blue, green		230/240 V AC		0,045	802 12C 313	802 52C 313	
	LED strobe beacon		24 V AC/DC		max. 0,110	801 12C 405	801 52C 405	
	2 strobe patterns, amber, red, yellow		110/120 V AC		0,033	801 12C 310	801 52C 310	
ICM	2 strobe patterns, amber, red, yellow	LED	230/240 V AC	+/- 10%	0,033	801 12C 313	801 52C 313	
45 mm Ø)	LED strobe beacon	LED	24 V AC/DC	T/- 10 /0	max. 0,110	801 12C 405	801 52C 405	
	2 strobe patterns, clear, blue, green		110/120 V AC		0,033	801 12C 310	801 52C 310	
	2 strobe patterns, clear, blue, green		230/240 V AC		0,033	801 12C 313	801 52C 313	
	LED strobe beacon		24 V AC/DC		0,046	800 11C 405	800 51C 405	
	amber, red, yellow		110/120 V AC		0,018	800 11C 310	800 51C 310	
ISS	amber, rea, yellow	LED	230/240 V AC	+/- 10%	0,021	800 11C 313	800 51C 313	
30 mm Ø)	LED strobe beacon	LED	24 V AC/DC	T/- 10 /0	0,046	800 11C 405	800 51C 405	
	clear, blue, green		110/120 V AC		0,018	800 11C 310	800 51C 310	
	cieai, blue, green		230/240 V AC		0,021	800 11C 313	800 51 <b>C</b> 313	
ISL		1 J	12-24 V AC/DC		0,150	802 11 <b>C</b> 405	802 51C 405	
65 mm Ø)	Xenon strobe beacon	xenon tube	110/120 V AC	+/- 10%	0,030	802 11C 310	802 51C 310	
00 111111 0)		ACTION TUDE	230/240 V AC		0,020	802 11C 313	802 51C 313	
ISM		0,5 J	12-24 V AC/DC		0,110	801 11C 405	801 51C 405	
45 mm Ø)	Xenon strobe beacon	xenon tube	110/120 V AC	+/- 10%	0,020	801 11C 310	801 51C 310	
( <del>4</del> 5 IIIII 6)		Xelloll lube	230/240 V AC		0,012	801 11C 313	801 51C 313	

HINWEIS: DIBL, IBM, IBS, ISS also available in voltages 12 V AC/DC

7.1000001100	
Adapter M30,5	812 500 900
Fastening tool for 30 mm models	812 400 900

# M22 Panel Mount Beacons "I"

# LED Multicolour Beacons IDL - IDM - IDS, ITL - ITM - ITS, IML - IMM

# LED Multicolour Beacons 1 of 2 Colours Visible (whole lens illuminated)



## **Features**

- Versatile and comprehensive M22 panel mount beacon series
- 3 sizes Ø 65 mm, 45 mm and 30 mm
- Maintenance free (LED) long lifetime (~100.000 h) low nominal current, vibration proof
- Installation depth 34/47 mm depending on model
- Available light functions:
   LED 2 colour steady light (IDL-IDM-IDS / ITL-ITM-ITS)
   LED 3 colour steady light (IML-IMM, only pre-cabled)

# LED Multicolour Beacons 1 or 2 separate colours visible (half lens illuminated)



# Models with sealed cable for special applications

## **Features**

- Sealed cable models with backside IP 67 rating
- Absolutely tight by fixation and sealing of cable
- ▶ Individual cable lengths/specifications available upon request
- ▶ All I-series models with Ø 65 and 45 mm can be offered as pre-cabled model (min. quantity required)
- ▶ 45 mm models possible depending on project requirements

# P 65 C C UL US PCT

## 3-colour LED beacons IML - IMM

- ▶ IML (Ø 65 mm) and IMM (Ø 45 mm) signalling in
- 3 colours (red, yellow, green) externally switchable/selectable
- 1 m UL cable, open ends





Type	Denomination	Light		Voltage	Nominal	Ordner No.		Price (€)
Туре		source		range (V)	current (A)	Housing grey	Housing black	File (e)
	LED multicolour steady beacon 1st color: amber, red, yellow 2nd colour: any color		24 V AC/DC	+/- 10%	0,071	802 2 <b>CC</b> 405	802 6 <b>CC</b> 405	
			110/120 V AC		0,061	802 2 <b>CC</b> 310	802 6 <b>CC</b> 310	
IDL		LED	230/240 V AC		0,061	802 2 <b>CC</b> 313	802 6CC 313	
(65 mm Ø)	LED multicolour steady beacon	LED	24 V AC/DC		0,071	802 2 <b>CC</b> 405	802 6CC 405	
	1st colour: clear, blue, green		110/120 V AC		0,061	802 2 <b>CC</b> 310	802 6 <b>CC</b> 310	
	2nd colour: clear, blue, green		230/240 V AC		0,061	802 2 <b>CC</b> 313	802 6 <b>CC</b> 313	
	LED multicolour steady beacon		24 V AC/DC		0,046	801 2 <b>CC</b> 405	801 6 <b>CC</b> 405	
	1st colour: amber, red, yellow		110/120 V AC		0,035	801 2 <b>CC</b> 310	801 6CC 310	
IDM	2nd colour: any color	150	230/240 V AC	. / . 400/	0,035	801 2 <b>CC</b> 313	801 6CC 313	
(45 mm Ø)	LED multicolour steady beacon	LED	24 V AC/DC	+/- 10%	0,046	801 2 <b>CC</b> 405	801 6CC 405	
	1st colour: clear, blue, green		110/120 V AC		0,035	801 2 <b>CC</b> 310	801 6CC 310	
	2nd colour: clear, blue, green		230/240 V AC		0,035	801 2 <b>CC</b> 313	801 6CC 313	
IDS	LED multicolour steady beacon 1st colour: amber, red, yellow 2nd colour: any color	150	24 V AC/DC		0,028	800 2 <b>CC</b> 405	800 6 <b>CC</b> 405	
(30 mm Ø)	LED multicolour steady beacon 1st colour: clear, blue, green 2nd colour: clear, blue, green	LED	24 V AC/DC	+/- 10%	0,028	800 2 <b>CC</b> 405	800 6 <b>CC</b> 405	
	LED multicolour steady beacon 1st colour: amber, red, yellow 2nd colour: any color		24 V AC/DC	+/- 10%	0,044	802 3CC 405	802 7 <b>CC</b> 405	
			110/120 V AC		0,041	802 3CC 310	802 7 <b>CC</b> 310	
ITL			230/240 V AC		0,041	802 3CC 313	802 7CC 313	
(65 mm Ø)		LED	24 V AC/DC		0,044	802 3 <b>CC</b> 405	802 7 <b>CC</b> 405	
			110/120 V AC		0,041	802 3CC 310	802 7 <b>CC</b> 310	
			230/240 V AC		0,041	802 3CC 313	802 7CC 313	
	LED multicolour steady beacon 1st colour: amber, red, yellow 2nd colour: any color		24 V AC/DC		0,039	801 3CC 405	801 7 <b>CC</b> 405	
ITM			110/120 V AC		0,035	801 3CC 310	801 7CC 310	
			230/240 V AC		0,034	801 3CC 313	801 7CC 313	
<b>ITM</b> (45 mm Ø)	.==	LED	24 V AC/DC	+/- 10%	0,039	801 3CC 405	801 7 <b>CC</b> 405	
	LED multicolour steady beacon 1st colour: clear, blue, green 2nd colour: clear, blue, green		110/120 V AC		0,035	801 3CC 310	801 7CC 310	
			230/240 V AC		0,034	801 3CC 313	801 7CC 313	
ITS	LED multicolour steady beacon 1st colour: amber, red, yellow 2nd colour: any color		24 V AC/DC		0,030	800 3 <b>CC</b> 405	800 7 <b>CC</b> 405	
(30 mm Ø)	LED multicolour steady beacon 1st colour: clear, blue, green 2nd colour: clear, blue, green	LED	24 V AC/DC	+/- 10%	0,030	800 3CC 405	800 7 <b>CC</b> 405	
			24 V AC/DC		max. 0,043	802 150 405	802 550 405	
IML	LED 3 colour steady beacon LED red-yellow-green	LED	110/120 V AC	+/- 10%	0,033	802 150 310	802 550 310	
(65 mm Ø)		230/240 V AC		0,033	802 150 313	802 550 313		
<b>IMM</b> (45 mm Ø)	LED 3 colour steady beacon red-yellow-green	LED	24 V AC/DC	+/- 10%	max. 0,027	801 150 405	801 550 405	

Adapter M30,5	812 500 900	
Fastening tool for 30 mm models	812 400 900	



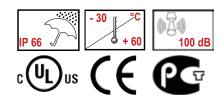
# Signal Tower ECOmodul70, ECOmodul60, ECOmodul40



## **Features**

- Modular signal tower series in diameters Ø 70 mm, 60 mm and 40 mm for universal applications
- Modern signal tower concept based on up-to-date LED technique, alternative operation with conventional incandescent bulb technique
- Excellent cost/performance ratio
- Complete range of bright LED modules in function modes
  - LED steady light
  - LED flashing light
  - LED strobe light (single flash)
  - LED multi strobe light (multi flash)
- LED steady/LED strobe and LED multi strobe modules in version "HIGH PERFORMANCE" (ECOmodul70 and ECOmodul60)
- Very long lifetime due to maintenance free LED technique, vibration proof and significantly reduced nominal current

- Piezo buzzer and multi tone siren modules
- Easy to operate connection technique
- Comprehensive range of mounting options including quick mount solutions
- Plc fit (leakage and inrush current)
- ▶ High ingress protection IP 66 certified to UL type 4/4X/13





# Modern signal tower concept based on up-to-date LED technique

Comprehensive range of bright LED modules in function modes

	ECOmodul70	ECOmodul60	ECOmodul40
Number of LEDs	12	8	8
LED steady light	J	V	J
LED flashing light	V	V	J
LED strobe light (single flash)	V	V	V
LED multi strobe light (multi flash)*			V

## \*Mode of operation LED multi strobe light (multi flash):

- ▶ Combination of differently defined LED strobe sequences
- ▶ LED flash sequence appears to viewer as irregular strobe pattern no familiarization effect
- Extremely high signalling effect for danger notification
- Modern LED strobe light and LED multi strobe light modules replace conventional lifetime, limited xenon strobe modules with simultaneously obtaining
  - excellent efficiency
  - maximum vibration proofness
  - extremely long lifetime
     (up to 100.000 h corresponds to a continuous operation of > 10 years,
     thereafter LED emits approx. half of its original light output)

## Comprehensive range of LED "HIGH PERFORMANCE" modules

- ▶ The use of high performance LEDs in connection with intelligent electronics results in
  - highest signalling effects
  - suitability for outdoor applications/eg in sunlight
  - optimal signalling effects in extremely dangerous situations
- ▶ Extremely long lifetime (> 50.000 h)
- ▶ LED "HIGH PERFORMANCE" modules available in function modes:

	ECOmodul70	ECOmodul60
Number of high performance LEDs	4	2
LED steady light	V	V
LED strobe light (single flash)	V	
LED multi strobe light (multi flash)	V	V



Steady light with high performance LEDs



# Configurator



MODULES
TONE
Piezo Buzzer - 1 tone
Piezo Buzzer - 2 tones
Multi tone sounder - 8 tones

LIGHT
Steady light
LED steady light
LED flashing light
LED strobe light
LED multi strobe light
LED steady light "HIGH PERFORMANCE"
LED strobe light "HIGH PERFORMANCE"
LED multi strobe light "HIGH PERFORMANCE"

BASE for	
ECOmodul70	
ECOmodul60	
ECOmodul40	
ECOmodul70	
ECOmodul60	
ECOmodul40	
ECOmodul70	
ECOmodul60	
ECOmodul40	

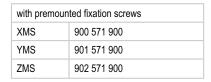






vertical mounting		
single side mounting		
XMV	900 573 900	
YMV	901 573 900	
ZMV	902 573 900	







double side mounting			
XZV	900 574 900		
YZV	901 574 900		
ZZV	902 574 900		



with extern	nal mounting lugs		
XMF	900 572 900		
YMF	901 572 900		
ZMF	902 572 900		



Len	gth code for tub	es	L
2	100 mm		
3	250 mm		
4	400 mm	J.	









		$\sim$
Specification	Туре	Order No.
Continuous or pulsing tone	XDE	900 500 <b>VOL</b>
Continuous and pulsing tone	XDZ	900 510 <b>VOL</b>
8 tone types selectable	XDM	900 520 <b>VOL</b>

Туре	Order No.
YDE	901 500 <b>VOL</b>

Type	Order No.
ZDE	902 500 <b>VOL</b>

Light source	Туре	Order No.
Bulb	XLL	900 00 <b>C</b> 900
	XDC	900 01 <b>C VOL</b>
Internated LED	XDA	900 02 <b>C VOL</b>
Integrated LED	XDF	900 03 <b>C VOL</b>
	XDC-HP	900 05 <b>C VOL</b>
Integrated "HIGH PERFORMANCE" LED	XDF-HP	900 06 <b>C VOL</b>
	XFF-HP	900 07 <b>C VOL</b>

Order No.
901 00 <b>C</b> 900
901 01 <b>C VOL</b>
901 02 <b>C VOL</b>
901 03 <b>C VOL</b>
901 05 <b>C VOL</b>
901 07 <b>C VOL</b>

Туре	Order No.
ZLL	902 00 <b>C</b> 900
ZDC	902 01 <b>C VOL</b>
ZDA	902 02 <b>C VOL</b>
ZDF	902 03 <b>C VOL</b>
ZFF	902 04 <b>C VOL</b>

Voltage	Code	VOL
405	24 V AC/DC	
310	110/120 V AC	
313	230/240 V AC	



Pole mounting options		
Aluminium tube with plastic foot		
XMR	900 58 <b>L</b> 900	
YMR	901 58 <b>L</b> 900	
ZMR	902 58 <b>L</b> 900	



Accessories for pole mounting		
Bracket (fits XMR, YMR, ZMR)		
XWR	900 600 900	



For horizontal mounting with screw	
XSW	900 59 <b>L</b> 900
YSW	901 59 <b>L</b> 900
ZSW	902 59 <b>L</b> 900



Set for vertical mounting (for XSW, YSW, ZSW)		
XSS	900 700 900	



Qick mount base "Foot Adapter"	
XFR	900 56 <b>L</b> 900
YFR	901 56 <b>L</b> 900
ZFR	902 56 <b>L</b> 900



Base extensio (fits all bases)	
XEP	900 800 900
YEP	901 800 900
ZEP	902 800 900



Indication boa	<del></del>
XIB	900 850 900



# Signal Tower ECOmodul70, ECOmodul60, ECOmodul40

# Powerful piezo buzzer and multi tone siren modules

- Piezo buzzer modules for single tone operation (continuous or pulsing tone) in one signal tower (ECOmodul70, 60, 40)
- Piezo buzzer modules for dual tone operation (continuous and pulsing tone) in one signal tower (ECOmodul70)
- Multi tone siren modules 1 of 8 different tones selectable (ECOmodul70)







**XDE** 

XDZ

**XDM** 

			Tone table XDM			
STAGE 1 S1	Tone type	Frequency Hz	Pictogram	Repeat rate	Specific application	Max dB
Tone 01	continuous	2700 Hz				100
Tone 02	continuous	1350 Hz				100
Tone 03	intermittent	2700 Hz	<u> </u>	250 ms on, 250 ms off		100
Tone 04	intermittent	1350 Hz		250 ms on, 250 ms off		100
Tone 05	sweeping	1200 - 500 Hz		1 Hz	evacuation Germany DIN 33404-3	98
Tone 06	sweeping	500 - 1200 Hz		rising in 3 s, 0,5 s off	Netherlands NEN 2575:2000	98
Tone 07	alternating	800 - 1000 Hz		2 Hz		94
Tone 08	sweeping	500 - 1500 Hz		10 Hz	Ì	94

## Comfortable connection technique

- ▶ Time and cost savings in electrical connection
- High contact safety and conductivity in vibrations and temperature fluctuations



Connection terminal with clamping yoke technique (ECOmodul70 and ECOmodul60)



Connection terminal with push-in technique (ECOmodul40)

## **Base extension**

The base extension is an economic way to extend the length of an ECOmodul signal tower by 100 mm per base extension and to optically adapt the base to the diameter of the modules. Suitable for all bases. The ECOmodul70, ECOmodul60 and ECOmodul40 signal tower system is basically designed to accept maximum 4 pieces base extension "XEP", "YEP" resp. "ZEP" (corresponds to a length/extension of 400 mm). Depending on the individual application (vibration, .) also a higher pole length can be achieved.







## Quick mount base "Foot Adapter"

Tube lengths 100 mm or 250 mm

ECOmodul70	XFR
ECOmodul60	YFR
ECOmodul40	ZFR

#### **Function**

- The quick mount base is electrically pre-wired; the lower adapter part is mounted on the device and electrically connected
- The signal tower with quick mount upper base part is simply inserted into the lower part and firmly mounted by twisting the fixing ring
- The signal tower is now fully functional

## Advantages

- Simple and cost effective disassembly of signal tower for transportation of device
- Easy re-installation of signal tower at client's location
- Immediate function, no electrical connection work
- No wrong installation of signal tower possible as it only fits in one correct position into the quick mount lower part
- Additional locking option of signal tower with safety screw
- Quick mount base includes a rubber shipping cover protecting the exposed lower part during transportation or storage



## Indication board

suitable for all ECOmodul signal towers

- Can be set up for one to five-tier signal towers (clean break-off at desired length due to pre-lasered break-off edges)
- Easy mounting on the pole mount base
- For attaching of individual instructions and indications
- Complete scope of supply with 5-tier board, mounting clamp and screws
- Suitable for all pole mount bases of ECOmodul signal towers

Dimensions of indication board: 150 x 398 mm

Available area per tier: 150 x 62 mm (4 x ), 150 x 150 mm (1 x)

Order number: XIB 900 850 900









Туре	Light modules	Light	source	Nominal voltage (V)	Voltage range (V)	Nominal current (A)	Order No. Housing black	Price
XLL	Steady light	bı	ulb	up to 250 V AC/DC		7 W	900 00 <b>C</b> 900	
	150 ( ) 111			24 V AC/DC		0,049-0,054	900 01 <b>C</b> 405	
XDC	LED steady light amber, red, green, yellow			110/120 V AC	+/- 10%	0,028-0,031	900 01C 310	
	amber, red, green, yellow		ED	230/240 V AC		0,027-0,028	900 01C 313	
		integrat	ted LED	24 V AC/DC		0,049-0,054	900 01C 405	
XDC	LED steady light			110/120 V AC	+/- 10%	0,028-0,031	900 01C 310	
	clear, blue			230/240 V AC		0,027-0,028	900 01C 313	
				24 V AC/DC		0,058	900 02 <b>C</b> 405	
XDA	LED flashing light			110/120 V AC	+/- 10%	0,028-0,030	900 02C 310	
	amber, red, green, yellow			230/240 V AC		0,030-0,031	900 02 <b>C</b> 313	
		integrat	ted LED	24 V AC/DC		0,058	900 02 <b>C</b> 405	
XDA	LED flashing light			110/120 V AC	+/- 10%	0,028-0,030	900 02 <b>C</b> 310	
	clear, blue			230/240 V AC	,,	0,030-0,031	900 02 <b>C</b> 313	
				24 V AC/DC		0,130-0,136	900 03 <b>C</b> 405	
XDF	LED strobe light			110/120 V AC	+/- 10%	0,010	900 03 <b>C</b> 310	
ADI	amber, red, green, yellow			230/240 V AC	T/- 10 /0	0,010	900 03 <b>C</b> 313	
		integrat	ted LED	24 V AC/DC		0,130-0,136	900 03 <b>C</b> 405	
XDF	LED strobe light			110/120 V AC	+/- 10%	0,130-0,130	900 03 <b>C</b> 310	
VDL	clear, blue				T/- 10 /0	0,010		
	"HIGH PERFORMANCE" models			230/240 V AC		0,010	900 03 <b>C</b> 313	
	LED steady light HP				18-30 V DC			
XDC-HP	amber, red, green, yellow	•	rated GH	24 V AC/DC	18-26 V AC	0,170-0,200	900 05 <b>C</b> 405	
	LED steady light HP		RMANCE"		18-30 V DC			
XDC-HP	clear, blue	LE	ΞD	24 V AC/DC	18-26 V AC	0,170-0,200	900 05 <b>C</b> 405	
	LED strobe light HP				18-30 V DC			
XDF-HP	amber, red, green, yellow	•	rated GH	24 V AC/DC	18-26 V AC	0,260-0,265	900 06 <b>C</b> 405	
			RMANCE"					
XDF-HP	LED strobe light HP clear, blue		ED .	24 V AC/DC	18-30 V DC 18-26 V AC	0,260-0,265	900 06 <b>C</b> 405	
XFF-HP	LED multi strobe light HP amber, red, green, yellow	•	rated	24 V AC/DC	18-30 V DC 18-26 V AC	0,260-0,265	900 07 <b>C</b> 405	
			GH RMANCE"					
XFF-HP	LED multi strobe light HP clear, blue		ED	24 V AC/DC	18-30 V DC 18-26 V AC	0,260-0,265	900 07 <b>C</b> 405	
	deal, blue	Tono	ptions		10-20 V AO			
Type	Tone modules	Tone	Max.	Nominal	Voltage	Nominal	Order No.	
.,,,,		type	volume	voltage (V)	range (V)	current (A)	Housing black	
				24 V AC/DC		0,092	900 500 405	
XDE	Piezo buzzer	continuous or pulsing	100 dB**	110/120 V AC		0,041	900 500 310	
	Piezo buzzer	or pulsing		230/240 V AC		0,043	900 500 313	
		antiny		24 V AC/DC	+/- 10%	0,092	900 510 405	
XDZ	Piezo buzzer	continuous and	100 dB**	110/120 V AC		0,041	900 510 310	
	2 tones selectable	pulsing		230/240 V AC		0,043	900 510 313	
				24 V AC/DC		0,115	900 520 405	
XDM	Multi tone siren	8 tones 100	100 dB**	110/120 V AC		0,045	900 520 310	
	Tones see tone table page 28		.00 00	230/240 V AC		0,043	900 520 313	

<sup>\*\*</sup> Adjustable by potentiometer







Туре	Bases		Order No. Housing black	Price
XMW	Base for horizontal mounting	M20, with inside mounting holes	900 570 900	
XMS	Base for horizontal mounting	with premounted fixation screws	900 571 900	
XMF	Base for horizontal mounting	with external mounting lugs	900 572 900	
XMV	Base for vertical mounting	single side mounting	900 573 900	
XZV	Base for vertical mounting	double side mounting	900 574 900	
XMR	Pole mount base 100 mm	on aluminium tube with plastic foot	900 582 900	
XMR	Pole mount base 250 mm	on aluminium tube with plastic foot	900 583 900	
XMR	Pole mount base 400 mm	on aluminium tube with plastic foot	900 584 900	
XNW	Pole mount base	NPT 1/2" thread	900 570 950	
XWR	Bracket	for pole mount base with plastic foot (XMR)	900 600 900	
XSW	Pole mount base 100 mm	on aluminium tube for direct mounting with screw	900 592 900	
XSW	Pole mount base 250 mm	on aluminium tube for direct mounting with screw	900 593 900	
XSW	Pole mount base 400 mm	on aluminium tube for direct mounting with screw	900 594 900	
XSS	Set for vertical mounting (for XSW)	metal bracket, adapter with cable gland	900 700 900	
XFR	Quick mount base 100 mm	on aluminium tube with "foot adapter"	900 562 900	
XFR	Quick mount base 250 mm	on aluminium tube with "foot adapter"	900 563 900	
XFR	Quick mount base 400 mm	on aluminium tube with "foot adapter"	900 564 900	
XEP	Base extension, length 100 mm	suitable for all bases	900 800 900	

<sup>\*\*</sup> Adjustable by potentiometer

Туре	Denomination	Nominal voltage (V)	Ordner No.	Price
XIB	Indication board		900 850 900	
LWW	Bulb changing tool (use optional)		890 900 900	
GL01	Incandescent bulb BA15d	12 V, 5 W	890 010 904	
GL02	Incandescent bulb BA15d	24 V, 6,5 W	890 010 905	
GL05	Incandescent bulb BA15d	110/120 V, 7 W	890 010 910	
GL06	Incandescent bulb BA15d	230/240 V, 6 W	890 010 913	







Туре	Light modules	Light	source	Nominal voltage (V)	Voltage range (V)	Nominal current (A)	Order No. Housing black	Price
YLL	Steady light	bi	ılb	up to 250 V AC/DC		4 W	901 00 <b>C</b> 900	
	.==			24 V AC/DC		0,022-0,033	901 01C 405	
YDC	LED steady light			110/120 V AC		0,029-0,030	901 01C 310	
YDC	amber, red, green, yellow			230/240 V AC	+/- 10%	0,029-0,030	901 01C 313	
		integra	ted LED	24 V AC/DC	17- 1076	0,022-0,033	901 01C 405	
	LED steady light clear, blue			110/120 V AC		0,029-0,030	901 01C 310	
	clear, blue			230/240 V AC		0,029-0,030	901 01C 313	
	.==			24 V AC/DC		0,028-0,036	901 02C 405	
YDA	LED flashing light amber, red, green, yellow			110/120 V AC		0,030	901 02C 310	
	arriber, red, green, yellow	into our	441 ED	230/240 V AC	+/- 10%	0,030	901 02C 313	
	LED Acabin a Bakt	integra	ted LED	24 V AC/DC	T/- 10 /0	0,028-0,036	901 02C 405	
YDA	LED flashing light clear, blue			110/120 V AC		0,030	901 02C 310	
	clear, blue			230/240 V AC		0,030	901 02C 313	
	.==			24 V AC/DC		0,035-0,065	901 03C 405	
YDF	LED strobe light			110/120 V AC		0,010	901 03C 310	
	amber, red, green, yellow	let	441 ED	230/240 V AC	1/ 400/	0,010	901 03C 313	
	150	integra	ted LED	24 V AC/DC	+/- 10%	0,035-0,065	901 03 <b>C</b> 405	
YDF	LED strobe light			110/120 V AC		0,010	901 03C 310	
	clear, blue			230/240 V AC		0,010	901 03C 313	
	"HIGH PERFORMANCE" models							
YDC-HP	LED steady light HP	integrated "HIGH PERFORMANCE"		24 V AC/DC	18-30 V DC 18-26 V AC	0,130-0,150	901 05 <b>C</b> 405	
	amber, red, green, yellow  LED steady light HP			ZH V NOIDO		0,100 0,100	001 000 400	
YDC-HP	clear, blue	LED		24 V AC/DC		0,130-0,150	901 05 <b>C</b> 405	
YFF-HP	LED multi strobe light HP amber, red, green, yellow	integrated "HIGH PERFORMANCE"		24 V AC/DC	18-30 V DC	0,190-0,250	901 07 <b>C</b> 405	
YFF-HP	LED multi strobe light HP clear, blue	LI	ΞD	24 V AC/DC	18-26 V AC	0,190-0,250	901 07 <b>C</b> 405	
Туре	Tone modules	Tone of	options Max.	Nominal voltage	Voltage range	Nominal current	Order No.	
		type	Volume	(V)	(V)	(A)	Housing black	
				24 V AC/DC		0,065	901 500 405	
YDE	Piezo Buzzer	continuous or pulsing 90 dB		110/120 V AC	+/- 10%	0,031	901 500 310	
		or paromig		230/240 V AC		0,032	901 500 313	
Туре	Bases						Order No. Housing black	
YMW	Base for horizontal mounting			M20, with inside mo	unting holes		901 570 900	
YMS	Base for horizontal mounting				with premounted fixation screws			
YMF	Base for horizontal mounting			with external mounting lugs			901 571 900 901 572 900	
YMV	Base for vertical mounting			single side mounting	• •		901 573 900	
YZV	Base for vertical mounting			double side mounting			901 574 900	
YMR	Pole mount base 100 mm			on aluminium tube v	•		901 582 900	
YMR	Pole mount base 250 mm			on aluminium tube with plastic foot		901 583 900		
YMR	Pole mount base 400 mm			on aluminium tube with plastic foot			901 584 900	
YNW	Pole mount base			NPT 1/2" thread			901 570 950	
XWR	Bracket						900 600 900	
YSW	Pole mount base 100 mm			for pole mount base with plastic foot (YMR)			901 592 900	
YSW	Pole mount base 250 mm			on aluminium tube for direct mounting with screw			901 593 900	
				on aluminium tube for direct mounting with screw			901 594 900	
YSW	Pole mount base 400 mm			on aluminium tube for direct mounting with screw			900 700 900	
YSW	Set for vertical mounting (for VCM)	Set for vertical mounting (for YSW)			metal bracket, adapter with cable gland			
XSS	,			' '	•		901 562 900	
XSS YFR	Quick mount base 100 mm			on aluminium tube v	vith "foot adapter"		901 562 900	
XSS	,			' '	vith "foot adapter" vith "foot adapter"		901 562 900 901 563 900 901 564 900	

NOTE: ▶ Accessories see page 33 \*\* Adjustable by potentiometer







Туре	Light modules	Light	source	Nominal voltage (V)	Voltage range (V)	Nominal current (A)	Order No. Housing black	Price
ZLL	Steady light	bı	ılb	up to 250 V AC/DC		4 W	902 00 <b>C</b> 900	
	LED -to - do Bold			24 V AC/DC		0,022-0,033	902 01 <b>C</b> 405	
ZDC	LED steady light amber, red, green, yellow			110/120 V AC	+/- 10%	0,030	902 01 <b>C</b> 310	
	amber, red, green, yellow			230/240 V AC		0,030	902 01C 313	
		integra	ted LED	24 V AC/DC		0,022-0,033	902 01C 405	
ZDC	LED steady light			110/120 V AC	+/- 10%	0,030	902 01 <b>C</b> 310	
	clear, blue			230/240 V AC		0,030	902 01 <b>C</b> 313	
				24 V AC/DC		0,028-0,036	902 02 <b>C</b> 405	
ZDA	LED flashing light			110/120 V AC	+/- 10%	0,030	902 02 <b>C</b> 310	
	amber, red, green, yellow			230/240 V AC		0,030	902 02 <b>C</b> 313	
		integra	ted LED	24 V AC/DC		0,028-0,036	902 02 <b>C</b> 405	
ZDA	LED flashing light			110/120 V AC	+/- 10%	0,030	902 02 <b>C</b> 310	
200	clear, blue			230/240 V AC	17- 1070	0,030	902 02 <b>C</b> 313	
				24 V AC/DC		0,035-0,065	902 03 <b>C</b> 405	
705	LED strobe light				1/ 400/			
ZDF	amber, red, green, yellow			110/120 V AC	+/- 10%	0,010	902 03C 310	
		integra	ted LED	230/240 V AC		0,010	902 03C 313	
	LED strobe light	· ·		24 V AC/DC		0,035-0,065	902 03 <b>C</b> 405	
ZDF	clear, blue			110/120 V AC	+/- 10%	0,010	902 03 <b>C</b> 310	
		cui, biuc		230/240 V AC		0,010	902 03 <b>C</b> 313	
	ED multi strobe light			24 V AC/DC		0,048-0,068	902 04 <b>C</b> 405	
ZFF	amber, red, green, yellow			110/120 V AC	+/- 10%	0,021-0,030	902 04 <b>C</b> 310	
		integrated LED		230/240 V AC		0,021-0,030	902 04 <b>C</b> 313	
	LED multi atroba light	integra	ied LLD	24 V AC/DC		0,048-0,068	902 04 <b>C</b> 405	
ZFF	LED multi strobe light clear, blue			110/120 V AC	+/- 10%	0,021-0,030	902 04C 310	
	olear, blue			230/240 V AC		0,021-0,030	902 04 <b>C</b> 313	
		Tone options		Nominal	Voltage	Nominal	Order No.	
Туре	Tone modules	Tone type	Max. volume	voltage (V)	range (V)	current (A)	Housing black	
		1		24 V AC/DC		0,039	902 500 405	
ZDE	Piezo buzzer	continuous or pulsing	80 dB	110/120 V AC	+/- 10%	0,021	902 500 310	
		or pulsing		230/240 V AC		0,021	902 500 313	
	_						Order No.	
Туре	Bases						Housing black	
ZMW	Base for horizontal mounting			M20, with inside mo	unting holes		902 570 900	
ZMS	Base for horizontal mounting			with premounted fix	ation screws		902 571 900	
ZMF	Base for horizontal mounting			with external mount	ing lugs		902 572 900	
ZMV	Base for vertical mounting			single side mounting	g		902 573 900	
ZZV	Base for vertical mounting			double side mountir	ng		902 574 900	
ZMR	Pole mount base 100 mm			on aluminium tube	vith plastic foot		902 582 900	
ZMR	Pole mount base 250 mm			on aluminium tube	vith plastic foot		902 583 900	
ZMR	Pole mount base 400 mm			on aluminium tube	•		902 584 900	
ZNW	Pole mount base			NPT 1/2" thread	,		902 570 950	
XWR	Pole mount base Bracket				with plastic foot (ZM	IR)	900 600 900	
ZSW	Pole mount base 100 mm				or direct mounting w	,	902 592 900	
ZSW					or direct mounting w		902 593 900	
	Pole mount base 250 mm Pole mount base 400 mm				or direct mounting w		902 594 900	
ZSW	Pole mount base 400 mm Set for vertical mounting (for 7SW)			metal bracket, adap	-	ui Joiew		
XSS	Set for vertical mounting (for ZSW)				-		900 700 900	
ZFR	Quick mount base 100 mm			on aluminium tube	" '		902 562 900	
ZFR	Quick mount base 250 mm			on aluminium tube		902 563 900		
ZFR	Quick mount base 400 mm			on aluminium tube	•		902 564 900	
ZEP	Base extension, length 100 mm			suitable for all base	S		902 800 900	

# Accessories

Туре	Denomination	Nominal voltage (V)	Order No.	Price
XIB	Indication board		900 850 900	
LWW	Bulb changing tool		890 900 900	
GL11	Incandescent bulb BA15d	12 V, 4 W	890 012 904	
GL12	Incandescent bulb BA15d	24 V, 4 W	890 012 905	
GL16	Incandescent bulb BA15d	230/240 V, 4 W	890 012 913	



Notes			

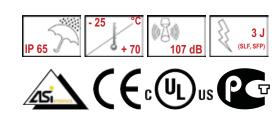


# Signal Tower modulSIGNAL70

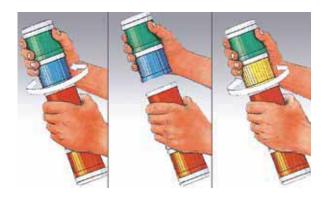


### **Features**

- Modular, well proven signal tower family
- For practically all signal tower applications
- Complete range of visual, audible and special modules
- ▶ 6 lens colours, 3 housing colours
- Wide range of mounting options
- Plc fit (leakage, inrush current)
- UL type 4/4X/13



- Modular construction with bayonet locking system
- Fast and easy to operate, mount, configurate and change
- ▶ Troublefree and fingersafe bulb change at any position without using any tools





# Quick mount system "FOOT ADAPTER" (Pat.No. 501053) (Base type BFR)



Quick mounting system "Foot adapter" saves the customer the electrical connection and eases considerably mounting of signal tower for machine manufacturers and their customers.



# Signal Tower modulSIGNAL70

			Light sour	се	Tone	options				Orde	er No.		Order No.	
Туре	Denomination	Bulb GL	LED bulb steady light LLL	LED bulb flash. light LLB	Tone types	Max. sound pressure (dB)	Nominal voltage (V)	Volt. range (V)	Nominal current (A)	Housing grey	Housing black	Price	Housing silver	Pric
	Light Modules													
SLL	Steady light	Χ	Χ	Χ			- 250 V AC/DC		7 W	210 10 <b>C</b> 900	210 50° 900		210 80 <b>C</b> 900	
							12-24 V AC/DC			220 10C 405	220 50C 405		220 80C 405	
SLB	Flashing light	Χ	Χ				110/120 V AC	+/-	7 W	220 10C 310	220 50C 310		220 80 <b>C</b> 310	
							230/240 V AC	10%		220 10C 313	220 50° 313		220 80 <b>C</b> 313	
							12-24 V AC/DC	1070	0,180	230 10C 405	230 50 <b>C</b> 405		230 80 <b>C</b> 405	
SLF	Strobe light	3	J xenon tu	ibe			110/120 V AC		0,050	230 10C 310	230 50 <b>C</b> 310		230 80 <b>C</b> 310	
							230/240 V AC		0,035	230 10C 313	230 50C 313		230 80C 313	
	LED steady light						24 V AC/DC		0,070	211 10C 405	211 50 <b>C</b> 405		211 80C 405	
	amber, red, green, yellow						110/120 V AC		0,043	211 10C 310	211 50 <b>C</b> 310		211 80C 310	
SDC		in	tegrated LE	EDs			230/240 V AC	+/-	0,041	211 10C 313	211 50C 313		211 80C 313	
	LED steady light						24 V AC/DC	10%	0,070	211 10C 405	211 50C 405		211 80 <b>C</b> 405	
	clear, blue						110/120 V AC		0,043	211 10C 310	211 50C 310		211 80C 310	
							230/240 V AC		0,041	211 10C 313	211 50C 313		211 80C 313	
	LED flashing light						24 V AC/DC 110/120 V AC		0,070	221 10C 405	221 50C 405		221 80C 405	
	amber, red, green, yellow						230/240 V AC	.,	0,043 0,041	221 10C 310 221 10C 313	221 50 <b>C</b> 310 221 50 <b>C</b> 313		221 80C 310 221 80C 313	
BDA		in	tegrated LE	EDs			24 V AC/DC	+/- 10%	0,041	221 10C 313 221 10C 405	221 50 <b>C</b> 313		221 80C 405	
	LED flashing light						110/120 V AC	10 /0	0,070	221 10C 405 221 10C 310	221 50 <b>C</b> 405		221 80C 310	
	clear, blue						230/240 V AC		0,043	221 10C 310 221 10C 313	221 50 <b>C</b> 310		221 80C 310	
	Light-Buzzer Modules						230/240 V AC		0,041	221 100 313	221 300 313		221 000 313	
	Light Duzzer modules						24 V AC/DC			250 10 <b>C</b> 405	250 50 <b>C</b> 405		250 80 <b>C</b> 405	
LP	Steady light-buzzer	Х	Х	Х	cont.	107 or	110/120 V AC		7 W,	250 10C 403	250 50 <b>C</b> 405		250 80C 403	
,_,	Otoddy light buzzoi	^	^	^	or puls.	90*	230/240 V AC		0,040 A	250 10 <b>C</b> 313	250 50 <b>C</b> 313		250 80C 313	
							24 V AC/DC			212 10C 405	212 50 <b>C</b> 405		212 80 <b>C</b> 405	
SLD	Steady light-buzzer	Χ	Х	Χ	cont.	107 or	110/120 V AC		7 W,	212 10 <b>C</b> 310	212 50 <b>C</b> 310		212 80 <b>C</b> 310	
	light/sound separately switchable	, ,	,	•	or puls.	90*	230/240 V AC	+/-	0,043 A	212 10 <b>C</b> 313	212 50 <b>C</b> 313		212 80 <b>C</b> 313	
						40=	24 V AC/DC	10%		260 10C 405	260 50 <b>C</b> 405		260 80 <b>C</b> 405	
BP	Flashing light-buzzer	Χ	Χ		cont.	107 or	110/120 V AC		7 W,	260 10C 310	260 50C 310		260 80 <b>C</b> 310	
					or puls.	90*	230/240 V AC		0,040 A	260 10C 313	260 50C 313		260 80C 313	
						107	24 V AC/DC		0,220	270 10C 405	270 50C 405		270 80C 405	
SFP	Strobe light-buzzer	3	J xenon tu	ıbe	cont. or puls.	107 or 90*	110/120 V AC		0,093	270 10C 310	270 50C 310		270 80C 310	
					oi puis.	30	230/240 V AC		0,075	270 10C 313	270 50 <b>C</b> 313		270 80C 313	
	Sound Modules													
					cont.	107 or	24 V AC/DC		0,040	247 100 405	247 500 405		247 800 405	
SDE	Piezo buzzer, IP65				or puls.	90*	110/120 V AC		0,043	247 100 310	247 500 310		247 800 310	
							230/240 V AC		0,040	247 100 313	247 500 313		247 800 313	
	Piezo buzzer, IP65 tone type				cont.	107 or	24 V AC/DC		0,040	248 100 405	248 500 405		248 800 405	
BDZ	externally switchable				+ puls.	90*	110/120 V AC		0,043	248 100 310	248 500 310		248 800 310	
	·						230/240 V AC	+/-	0,040	248 100 313	248 500 313		248 800 313	
	D: 1 ID54				cont.	97 or	24 V AC/DC	10%	0,040	243 100 405	243 500 405		243 800 405	
SPE	Piezo buzzer, IP54				or puls.	81**	110/120 V AC		0,043	243 100 310	243 500 310		243 800 310	
							230/240 V AC		0,040	243 100 313	243 500 313		243 800 313	
, החי	Piezo buzzer, IP54 tone type				cont.	97 or	24 V AC/DC		0,040	244 100 405	244 500 405		244 800 405	
PZ	externally switchable				+ puls.	81**	110/120 V AC		0,043	244 100 310	244 500 310		244 800 310	
							230/240 V AC		0,040	244 100 313 241 100 405	244 500 313		244 800 313	
STE	Electronic sounder				15	64-	24 V AC/DC 110/120 V AC		0,065 0,060	241 100 405	241 500 405 241 500 310		241 800 405 241 800 310	
, I E	IP54, 15 tone types				10	103**	230/240 V AC	+/-	0,060	241 100 310	241 500 310		241 800 310	
	Electronic sounder						24 V AC/DC	10%	0,065	241 100 313	241 500 313		241 800 313	
STZ	IP54, 15 tone types				15	64-	110/120 V AC	10/0	0,060	242 100 405	242 500 405		242 800 405	
-12	2 tones externally switchable				10	103**	230/240 V AC		0,060	242 100 310	242 500 310		242 800 310	
	AS-Interface	0	pecification	ne			LUUIZTU V NO		0,000	E-72 100 010	L-12 000 010		L-12 000 0 10	
	, to mitorial to		laves / 4 mg								280 500 510			
		015	1avco / 4 1110	Juuido							200 000 010			
BAZ	AS-Interface module		laves / 3 mo	ndules							280 500 000			

NOTE: Product also available in 12 V AC/DC

<sup>■</sup> Bulbs have to be ordered separately \*Adjustable via DIP switch

<sup>\*\*</sup> Adjustable by potentiometer





				Orde	er No.		Order No.	
Туре		Denomination	Pole length mm	Housing grey	Housing black	Price	Housing silver	Price
	Bases							
BMW	Base for horizontal mounting, M2	20		200 100 900	200 500 900		200 810 900	
BNW	Base for horizontal mounting, NF	PT 1/2"		200 130 900	200 530 900		200 830 900	
BMV	Base for vertical mounting			200 200 900	200 600 900		200 820 900	
BMR	Pole mount base on aluminium t	uhe with plastic foot	100 mm	200 302 900	200 702 900		200 802 900	
DIVIN	Tole mount base on aluminum t	ube with plastic foot	250 mm	200 303 900	200 703 900		200 803 900	
BSR	Pole mount base on stainless ste	eel tube with metal foot	100 mm	200 312 900	200 712 900		200 812 900	
DOIL	T Old Middle Badd off Stammood Sta	oor tabo war motar root	250 mm	200 313 900	200 713 900		200 813 900	
BWS	Pole mount base on aluminium t	ube with horizontal mounting with screw	100 mm	200 332 900	200 732 900		200 832 900	
		· ·	250 mm	200 333 900	200 733 900		200 833 900	
BSS	Set for vertical mounting (for BW	(S)	100	200 400 900	200 800 900		000 040 000	
BFR	Pole mount base on aluminium b	pase with foot adapter for quick mounting	100 mm	200 342 900	200 742 900		200 842 900	
	Accessories		250 mm	200 343 900	200 743 900		200 343 900	
	Accessories	for hardward manufact MOO		044 404 000	044 504 000			
BDW		for horizontal mounting, M20		841 101 900	841 501 900			
		for horizontal mounting, NPT 1/2"		841 102 900	841 502 900			
BDV	Pole connection box	for vertical mounting, M20		841 111 900	841 511 900			
DUV	(for BMR only)	for vertical mounting, NPT 1/2"		841 112 900	841 512 900			
BDM		for magnetic mounting, M20		841 121 900	841 521 900			
DUN		for magnetic mounting, NPT 1/2"		841 122 900	841 522 900			

NOTE: Additional pole lengths available: 400, 500, 600, 800 mm

Cap is automatically included with each base



Notes			

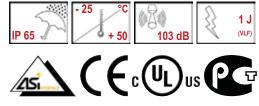


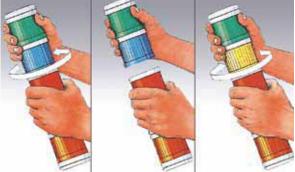
# Signal Tower modulSIGNAL50



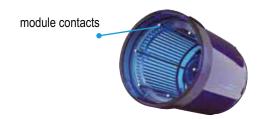
### **Features**

- Modular, well proven signal tower family
- For practically all signal tower applications
- Complete range of visual, audible and special modules
- ▶ 6 lens colours, 3 housing colours
- Wide range of mounting options
- Plc fit (leakage, inrush current)
- UL type 4/4X/13





- Modular construction with bayonet locking system
- Fast and easy to operate, mount, configurate and change modules
- Troublefree and fingersafe bulb change at any position without using any tools



# Quick mount system "FOOT ADAPTER"

(Pat.No. 501053) (Base type BFR)



Quick mounting system "Foot adapter" saves the customer the electrical connection and eases considerably mounting of signal tower for machine manufacturers and their customers.



# Signal Tower modulSIGNAL50

		Li	ight sour	ce	Ione o	ptions				Orde	r No.		Order No.	
Туре	Denomination	Bulb GL	LED bulb steady light LLL	LED bulb flash- light LLB	Tone types	Max. sound pressure (dB)	Nominal voltage (V)	Volt. range (V)	Nominal current (A)	Housing grey	Housing black	Price	Housing silver	Prio
	Light Modules													
/LL	Steady light	Х	Х	х			- 250 V AC/DC		7 W	750 00	C 900			
							12-24 V AC/DC			760 00	C 405			
/LB	Flashing light	х	Х				110/120 V AC		7 W	760 00	C 310			
							230/240 V AC			760 00	C 313			
							24 V AC/DC		0,029	751 00	C 405			
	LED steady light amber, red, green, yellow						110/120 V AC		0,033	751 00	C 310			
<b>/D</b> 0	ambor, rea, green, yenow						230/240 V AC		0,036	751 00	C 313			
/DC							24 V AC/DC		0,029	751 00	C 405			
	LED steady light clear, blue						110/120 V AC		0,033	751 00	C 310			
	clear, blue						230/240 V AC		0,036	751 00	C 313			
							24 V AC/DC		0,030	761 00	C 405			
	LED flashing light						110/120 V AC		0,034	761 00	C 310			
	amber, red, green, yellow						230/240 V AC		0,035	761 00	C 313			
/DA							24 V AC/DC		0,030	761 00	C 405			
	LED flashing light	integrated LED		integrated LED			110/120 V AC		0,034	761 00	C 310			
	clear, blue				230/240 V AC	+/-	0,035	761 00	C 313					
					24 V AC/DC	10%	max. 0,089	771 00	C 405					
	LED strobe light						110/120 V AC		0,024	771 00				
	amber, red, green, yellow						230/240 V AC		0,024	771 00	C 313			
/DF							24 V AC/DC		max. 0,089	771 00				
	LED strobe light						110/120 V AC		0,024	771 00				
	clear, blue						230/240 V AC		0,024	771 00				
							24 V AC/DC		max. 0,082	772 00				
	LED multi strobe light						110/120 V AC		0,032	772 00				
	amber, red, green, yellow						230/240 V AC		0,034	772 00				
/FF							24 V AC/DC		max. 0,082	772 00				
	LED multi strobe light						110/120 V AC		0,032	772 00				
	clear, blue						230/240 V AC		0,034	772 00				
							12-24 V AC/DC		0,070	770 00				
/LF	Xenon strobe light	2	J xenon tu	ıbo			110/120 V AC		0,076	770 00				
/LF	Aerion strobe light	3.0	xenon to	ine			230/240 V AC		0,020	770 00				
	Sound Modules						230/240 V AC		0,015	770 00	0 010			
	Journa Mountes						24 V AC/DC		0,025	781 100 405	781 500 405		781 800 405	
/DE	Piezo buzzer, IP 65				cont. or	103 or	110/120 V AC		0,023	781 100 403 781 100 310			781 800 403 781 800 310	
DE	Flezo buzzei, IF 05				pulsing	88*								
							230/240 V AC	+/- 10%	0,033	781 100 313			781 800 313	
/D7	Piezo buzzer, IP65				cont.	103 or	24 V AC/DC	1070	0,025	782 100 405			782 800 405	
/DZ	tone type and sound pressure selectable with DIP switch				and pulsing	88*	110/120 V AC		0,033	782 100 310			782 800 310	
	A.C. Instantono		ifi 4'				230/240 V AC		0,033	782 100 313	782 500 313		782 800 313	
	AS-Interface		ecificatio								700 500 500			
/A =	4014		laves/4 Mo								780 500 500			
VAZ	AS-Interface module		laves/3 Mo								780 500 600			
		62 sl	laves/4 Mo	odule							780 500 700			

NOTE: 40





		<b>.</b>			Orde	r No.		Order No.	
D	enomination	Pole length mm			Housing grey	Housing black	Price	Housing silver	Price
Bases									
Base for horizontal mounting, M2	20				790 120 900	790 520 900		790 820 900	
Base for horizontal mounting, NF	PT 1/2"				790 130 900	790 530 900		790 830 900	
Base for vertical mounting					790 140 900	790 540 900		790 840 900	
Pole mount base on aluminium t	a aluminium tuha with placts foot				790 142 900	790 542 900		790 842 900	
Pole mount base on aluminum t	ube with plaste 100t	250 mm			790 143 900	790 543 900		790 843 900	
Polo mount hace on stainless str	and tube with motal foot	100 mm			790 152 900	790 552 900		790 852 900	
Fole mount base on stalliless sta	eer tube with metal loot	250 mm			790 153 900	790 553 900		790 853 900	
Pole mount base on aluminium t	ubo for harizantal mounting with caraw	100 mm			790 172 900	790 572 900		790 872 900	
Pole mount base on aluminum t	ube for nonzonial mounting with screw	250 mm			790 173 900	790 573 900		790 873 900	
Set for vertical mounting (for VSW)					200 400 900	200 800 900			
Rase with foot adapter for quick	mounting	100 mm			790 182 900	790 582 900		790 882 900	
base with foot adapter for quick	mountaing	250 mm			790 183 900	790 583 900		790 883 900	
Accessories									
	for horizontal mounting, M20				841 101 900	841 501 900			
	for horizontal mounting, NPT 1/2"				841 102 900	841 502 900			
Pole connection boy (VMR only)	for vertical mounting, M20				841 111 900	841 511 900			
r ole connection box (vivily)	for vertical mounting, NPT 1/2"				841 112 900	841 512 900			
	for magnetic mounting, M20				841 121 900	841 521 900			
	for magnetic mounting, NPT 1/2"				841 122 900	841 522 900			
Safety screw set					700 00	00 900			
	Bases Base for horizontal mounting, M2 Base for horizontal mounting, NE Base for vertical mounting Pole mount base on aluminium to Pole mount base on stainless sta Pole mount base on aluminium to Set for vertical mounting (for VSW) Base with foot adapter for quick Accessories  Pole connection box (VMR only)	Base for horizontal mounting, M20 Base for horizontal mounting, NPT 1/2" Base for vertical mounting Pole mount base on aluminium tube with plasts foot  Pole mount base on stainless steel tube with metal foot  Pole mount base on aluminium tube for horizontal mounting with screw  Set for vertical mounting (for VSW)  Base with foot adapter for quick mounting  Accessories  for horizontal mounting, M20 for horizontal mounting, NPT 1/2" for vertical mounting, M20 for vertical mounting, M20 for vertical mounting, M20 for magnetic mounting, M20 for magnetic mounting, NPT 1/2"  Safety screw set	Bases  Base for horizontal mounting, M20  Base for horizontal mounting, NPT 1/2"  Base for vertical mounting  Pole mount base on aluminium tube with plasts foot  Pole mount base on stainless steel tube with metal foot  250 mm  100 mm  250 mm  100 mm  250 mm  100 mm  250 mm  100 mm  250 mm  250 mm  Accessories  For horizontal mounting with screw  For horizontal mounting, M20  for horizontal mounting, M20  for vertical mounting, M20  for wertical mounting, M20  for magnetic mounting, M20  for magnetic mounting, NPT 1/2"  Safety screw set	Bases  Base for horizontal mounting, M20  Base for vertical mounting Pole mount base on aluminium tube with plastc foot  Pole mount base on stainless steel tube with metal foot Pole mount base on aluminium tube for horizontal mounting with screw  Set for vertical mounting (for VSW)  Base with foot adapter for quick mounting  Accessories  For horizontal mounting, M20 for horizontal mounting, M20 for vertical mounting, M20 for magnetic mounting, M20 for magnetic mounting, M20 Safety screw set	Bases  Base for horizontal mounting, M20  Base for vertical mounting, NPT 1/2"  Base for vertical mounting  Pole mount base on aluminium tube with plastc foot  250 mm  Pole mount base on stainless steel tube with metal foot  250 mm  Pole mount base on aluminium tube for horizontal mounting with screw  250 mm  Pole mount base on aluminium tube for horizontal mounting with screw  Set for vertical mounting (for VSW)  Base with foot adapter for quick mounting  Accessories  For horizontal mounting, M20 for horizontal mounting, M20 for vertical mounting, NPT 1/2" for wagnetic mounting, M20 for magnetic mounting, NPT 1/2"  Safety screw set	Pole length mm	Base   Sase   Sase	Pole length mm	Pole length mm

NOTE: Cap is automatically included with each base Additional voltages and pole lengths available

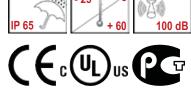


# **Signal Tower modulCOMPACT70**



### **Features**

- Compact (ready to use) LED signal tower family
- Tower is built according to customer's requirements
- Prewired with 1 m cable as standard (other cables lengths on request)
- ▶ 6 lens colours, 3 housing colours
- Wide range of mounting options
- Plc fit (leakage, inrush current)
- ▶ UL-certified, protection class IP 65 UL type 4, 4X,13
- Excellent price/performance ratio



# Quick mount system "FOOT ADAPTER"

(Pat.No. 501053) (Base type DFR)

Quick mounting system "Foot adapter" saves the customer the electrical connection and eases considerably mounting of signal tower for machine manufacturer and their customers.

			Tone	options				Orde	er No.		Order No.	
Туре	Denomination	Light source	Tone types	Max. sound pressure (dB)	Nominal voltage (V)	Volt. range (V)	Nominal current (A)	Housing grey	Housing black	Price	Housing silver	Price
	Light Modules											
DLL	LED steady light amber, red, yellow	integrated LEDs			(24 V AC/DC)		max. 0,031	705 00	C 900P			
DLL	LED steady light clear, blue, green	integrated LLDs			(24 V AC/DC)	+/-	max. 0,031	705 00 <b>C</b> 900P				
DLB	LED flashing light amber, red, yellow	integrated LEDs	ograted LEDs		(24 V AC/DC)	10%	max. 0,031	706 00 <b>C</b> 900P				
DLB	LED flashing, light clear, blue, green				(24 V AC/DC)		max. 0,031	706 00	C 900P			
	Sound Modules											
DDD			cont.				0,053	707 100 900 <b>P</b>	707 500 900 <b>P</b>		707 800 900 <b>P</b>	
DDP	Piezo buzzer		pulsing	100	(24 V AC/DC)		0,053	707 110 900 <b>P</b>	707 510 900 <b>P</b>		707 810 900 <b>P</b>	
DDZ	r ieżo bużżei		cont. + pulsing	100	(24 7 10/20)	+/-	0,053	707 120 900 <b>P</b>	707 520 900 <b>P</b>		707 820 900 <b>P</b>	
DLD			cont.			10%	0,053	707 101 900 <b>P</b>	707 501 900 <b>P</b>		707 801 900 <b>P</b>	
DLP	Piezo buzzer	pulsing	05	(04 \ / A C / D C )		0,053	707 111 900 <b>P</b>	707 511 900 <b>P</b>		707 811 900 <b>P</b>		
DLZ		cont. + pulsing	85	(24 V AC/DC)		0,053	707 121 900 <b>P</b>	707 521 900 <b>P</b>		707 821 900 <b>P</b>		





						Orde	er No.		Order No.	
Туре	Denomination	Specifications	Pole length	Nominal voltage (V)	Volt. range (V)	Housing grey	Housing black	Price	Housing silver	Price
	Bases									
DMW	Base for horizontal mounting	up to 3 modules		24 V AC/DC 110/120 V AC 230/240 V AC	+/-	708 100 310M	708 500 405M 708 500 310M 708 500 313M		708 800 405M 708 800 310M 708 800 313M	
		up to 5 modules		24 V AC/DC 110/120 V AC 230/240 V AC	10%	708 101 310 <b>M</b>	708 501 405M 708 501 310M 708 501 313M		708 801 405M 708 801 310M 708 801 313M	
DMV	Base for vertical mounting	up to 3 modules		24 V AC/DC 110/120 V AC 230/240 V AC	+/-	708 110 310M	708 510 405M 708 510 310M 708 510 313M		708 810 405M 708 810 310M 708 810 313M	
DMV	base for vertical mounting	up to 5 modules		24 V AC/DC 110/120 V AC 230/240 V AC	10%	708 111 310 <b>M</b>	708 511 405M 708 511 310M 708 511 313M		708 811 405M 708 811 310M 708 811 313M	
DSW	Pole mount base on aluminium tube for horizontal mounting	up to 3 modules	100 mm 250 mm 100 mm	24 V AC/DC		708 123 405M	708 522 405M 708 523 405M 708 532 405M		708 822 405M 708 823 405M 708 832 405M	
	in hole with screw	up to 5 modules	250 mm 100 mm	24 V AC/DC 110/120 V AC		708 133 405M	708 533 405M 708 522 310M		708 833 405M 708 822 310M	
DSW	on aluminium tube for horizontal mounting in hole with screw	up to 5 modules	250 mm 100 mm 250 mm	110/120 V AC	+/- 10%	708 132 310 <b>M</b>	708 523 310M 708 532 310M 708 533 310M		708 823 310M 708 832 310M 708 833 310M	
DSW	Pole mount base on aluminium tube	up to 3 modules	100 mm 250 mm	230/240 V AC		708 122 313M	708 522 313M 708 523 313M		708 822 313M 708 823 313M	
	for horizontal mounting in hole with screw	up to 5 modules	100 mm 250 mm	230/240 V AC		708 133 313M	708 532 313M 708 533 313M		708 832 313M 708 833 313M	
BSS	Set for vertical mounting  Pole mount base	up to 3 modules	100 mm 250 mm	24 V AC/DC		708 142 405 <b>M</b>	200 800 900 708 542 405M 708 543 405M		708 842 405M 708 843 405M	
DMR	on aluminium tube with plastic foot	up to 5 modules	100 mm 250 mm	24 V AC/DC			708 552 405M 708 553 405M		708 852 405M 708 853 405M	
DMR	Pole mount base on aluminium tube	up to 3 modules	100 mm 250 mm	110/120 V AC	+/- 10%	708 143 310 <b>M</b>	708 542 310M 708 543 310M 708 552 310M		708 842 310M 708 843 310M	
	with plastic foot	up to 5 modules	100 mm 250 mm 100 mm	110/120 V AC	10 /0	708 153 310 <b>M</b>	708 552 310M 708 553 310M 708 542 313M		708 852 310M 708 853 310M 708 842 313M	
DMR	Pole mount base on aluminium tube with plastic foot	up to 3 modules up to 5 modules	250 mm 100 mm	230/240 V AC 230/240 V AC			708 543 313M 708 552 313M		708 843 313M 708 852 313M	
	Pole mount base	up to 3 modules	250 mm 100 mm	24 V AC/DC		708 162 405 <b>M</b>	708 553 313M 708 562 405M		708 853 313M 708 862 405M	
DFR	on aluminium tube with foot adapter for quick mounting	up to 5 modules	250 mm 100 mm 250 mm	24 V AC/DC		708 172 405 <b>M</b>	708 563 405M 708 572 405M 708 573 405M		708 863 405M 708 872 405M 708 873 405M	
DFR	Pole mount base on aluminium tube	up to 3 modules	100 mm 250 mm	110/120 V AC	+/-	708 163 310 <b>M</b>	708 562 310M 708 563 310M		708 862 310M 708 863 310M	
	with foot adapter for quick mounting	up to 5 modules	100 mm 250 mm	110/120 V AC	10%	708 173 310M	708 572 310M 708 573 310M		708 872 310M 708 873 310M	
DFR	Pole mount base on aluminium tube with foot adapter for	up to 3 modules	100 mm 250 mm 100 mm	230/240 V AC		708 163 313M	708 562 313M 708 563 313M 708 572 313M		708 862 313M 708 863 313M 708 872 313M	
NOTE:	quick mounting  Additional pole lengths a	up to 5 modules	250 mm	230/240 V AC			708 573 313M		708 873 313M	

NOTE: Additional pole lengths available

Cap is automatically mounted



# **Signal Tower modulCOMPACT30**



### **Features**

- Compact (ready to use) LED signal tower family
- Tower is built according to customer's requirements
- Prewired with 1 m cable as standard (other cable lengths on request)
- ▶ 6 lens colours, 3 housing colours
- Wide range of mounting options
- Plc fit (leakage, inrush current)
- UL type 4/4X/13
- Excellent price/performance ratio



# Quick mount system "FOOT ADAPTER"

(Pat.No. 501053) (Base type CFR)

Quick mounting system "Foot adapter" saves the customer the electrical connection and eases considerably mounting of signal tower for machine manufacturer and their customers.

			Tone	options		Volt.		Orde	r No.		Order No.	
Туре	Denomination	Light source	Tone types	Max. sound press. (dB)	Nominal voltage (V)	range (V)	Nominal current (A)	Housing grey	Housing black	Price	Housing silver	Price
	Light Modules											
CLL	LED steady light amber, red, yellow	integrated LEDs			(24.)/ (100)		max. 0,031	701 00	C 900P			
CLL	LED steady light clear, blue, green	integrated LEDS			(24 V AC/DC)	+/-	max. 0,031	701 00 <b>C</b> 900 <b>P</b>				
CLB	LED flashing light amber, red, yellow	integrated LEDs			10% (24 V AC/DC)		max. 0,031	702 00 <b>C</b> 900P				
OLD	LED flashing light clear, blue, green	integrated ELDs			(24 V AOIDO)		max. 0,031	702 00 <b>C</b> 900P				
	Sound Modules											
CDD		cc	cont.				0,040	703 100 900P	703 500 900 <b>P</b>		703 800 900 <b>P</b>	
CDP	Piezo buzzer	r pulsing 85	85	(24 V AC/DC)	+/-	0,040	703 110 900 <b>P</b>	703 510 900 <b>P</b>		703 810 900 <b>P</b>		
CDZ		cont. + pulsing		,	10%		703 120 900 <b>P</b>	703 520 900P		703 820 900P		





				Naminal	Volt.	Orde	er No.		Order No.	
Туре	Denomination	Specifications	Pole length	Nominal voltage (V)	range (V)	Housing grey	Housing black	Price	Housing silver	Price
	Bases									
	Pole mount base	up to 3 modules	0 mm	24 V AC/DC		700 110 405M	700 510 405 <b>M</b>		700 810 405 <b>M</b>	
csw	on aluminium tube	up to 5 modules	100 mm	24 V AG/DC		700 112 405M	700 512 405 <b>M</b>		700 812 405M	
0344	for horizontal mounting in hole with screw	up to 5 modules	0 mm	24 V AC/DC		700 120 405M	700 520 405 <b>M</b>		700 820 405 <b>M</b>	
	III HOIC WILL SCIEW	up to 5 modules	100 mm	24 V AG/DG		700 122 405M	700 522 405 <b>M</b>		700 822 405 <b>M</b>	
	Pole mount base	up to 3 modules	0 mm	110/120 V AC		700 110 310M	700 510 310 <b>M</b>		700 810 310M	
csw	on aluminium tube	up to o modules	100 mm	110/120 V AO	+/-	700 112 310M	700 512 310 <b>M</b>		700 812 310M	
0011	for horizontal mounting in hole with screw	up to 5 modules	0 mm	110/120 V AC	10%	700 120 310M	700 520 310 <b>M</b>		700 820 310M	
	III HOIC WILL SOLCW	up to 5 modules	100 mm	110/120 V AC		700 122 310M	700 522 310 <b>M</b>		700 822 310M	
	Pole mount base	up to 3 modules	0 mm	230/240 V AC		700 110 313M	700 510 313 <b>M</b>		700 810 313M	
csw	on aluminium tube	up to 5 modules	100 mm	230/240 V AO		700 112 313M	700 512 313 <b>M</b>		700 812 313M	
COW	for horizontal mounting in hole with screw	up to 5 modules	0 mm	230/240 V AC		700 120 313M	700 520 313 <b>M</b>		700 820 313M	
	III HOIC WILL SCIEW	up to 5 modules	100 mm	230/240 V AC		700 122 313M	700 522 313 <b>M</b>		700 822 313M	
css	Set for vertical mounting	for CSW				700 130 900	700 530 900			
			0 mm			700 140 405 <b>M</b>	700 540 405 <b>M</b>		700 840 405 <b>M</b>	
	Pole mount base	up to 3 modules	100 mm	24 V AC/DC		700 142 405M	700 542 405 <b>M</b>		700 842 405M	
CMR	on aluminium tube with plastic foot		0 mm	041440/00		700 150 405M	700 550 405 <b>M</b>		700 850 405M	
	with plastic foot	up to 5 modules	100 mm	24 V AC/DC		700 152 405M	700 552 405 <b>M</b>		700 852 405M	
			0 mm	44044003440		700 140 310M	700 540 310 <b>M</b>		700 840 310M	
	Pole mount base		100 mm	110/120 V AC	+/-	700 142 310 <b>M</b>	700 542 310 <b>M</b>		700 842 310M	
CMR	on aluminium tube with plastic foot	ium tube	0 mm	440/400 \ / A O	10%	700 150 310M	700 550 310 <b>M</b>		700 850 310M	
		up to 5 modules	100 mm	110/120 V AC		700 152 310M	700 552 310 <b>M</b>		700 852 310M	
			0 mm	000/040 \ / 40		700 140 313M	700 540 313 <b>M</b>		700 840 313 <b>M</b>	
011D	Pole mount base	up to 3 modules	100 mm	230/240 V AC		700 142 313M	700 542 313 <b>M</b>		700 842 313 <b>M</b>	
CMR	on aluminium tube with plastic foot		0 mm	000/0401/40		700 150 313M	700 550 313 <b>M</b>		700 850 313M	
	·	up to 5 modules	100 mm	230/240 V AC		700 152 313M	700 552 313 <b>M</b>		700 852 313 <b>M</b>	
	<b>5</b>		0 mm	041/40/00		700 160 405M	700 560 405 <b>M</b>		700 860 405 <b>M</b>	
050	Pole mount base on aluminium tube	up to 3 modules	100 mm	24 V AC/DC		700 162 405M	700 562 405 <b>M</b>		700 862 405M	
CFR	with foot adapter for		0 mm	041/40/00		700 170 405M	700 570 405 <b>M</b>		700 870 405 <b>M</b>	
	quick mounting	up to 5 modules	100 mm	24 V AC/DC		700 172 405M	700 572 405 <b>M</b>		700 872 405 <b>M</b>	
	D	4- 0	0 mm	440/400 \ / A O		700 160 310M	700 560 310 <b>M</b>		700 860 310M	
	Pole mount base on aluminium tube	up to 3 modules	100 mm	110/120 V AC	+/-	700 162 310M	700 562 310 <b>M</b>		700 862 310M	
CFR	with foot adapter for	1. 5 1.1	0 mm	440/400 \ / A O	10%	700 170 310M	700 570 310 <b>M</b>		700 870 310 <b>M</b>	
	quick mounting	up to 5 modules	100 mm	110/120 V AC		700 172 310M	700 572 310 <b>M</b>		700 872 310 <b>M</b>	
	Dele merenth	um to O dula	0 mm	000/040 \ / 40		700 160 313M	700 560 313 <b>M</b>		700 860 313 <b>M</b>	
CED	Pole mount base on aluminium tube	up to 3 modules	100 mm	230/240 V AC		700 162 313M	700 562 313M		700 862 313 <b>M</b>	
CFR	with foot adapter for	to 5	0 mm	000/0403/40		700 170 313M	700 570 313 <b>M</b>		700 870 313 <b>M</b>	
	quick mounting	up to 5 modules	100 mm	230/240 V AC		700 172 313M	700 572 313M		700 872 313M	

NOTE: Additional pole lengths available Cap is automatically mounted

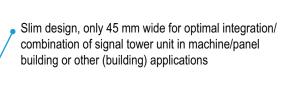


# Signal Tower halfDOME90



#### **Features**

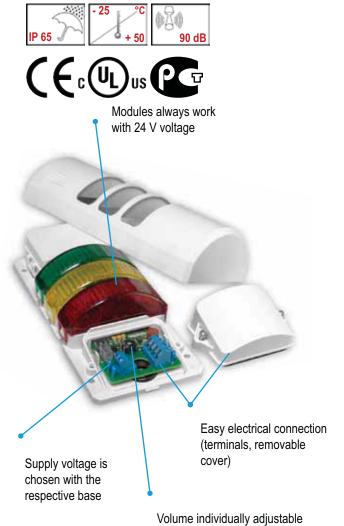
- Visual-audible signal tower in half dome design
- For universal industrial, building and other applications
- Any colour combination and housing size (2-5 positions) available
- ▶ 6 lens colours, 3 housing colours
- LED steady or flashing light for each position selectable
- Particular lens optics with reflective coating
- Optimal signalling effect and visibility from each viewing angle (180°)
- Optional piezo buzzer in upper housing area available (continuous and pulsing tone, 70-90 dB)
- ▶ Plc fit (leakage, inrush current)
- UL type 4/4X/13







IP 65 – for use in damp and dusty environmental conditions, also outdoor



from ~70-90 dB





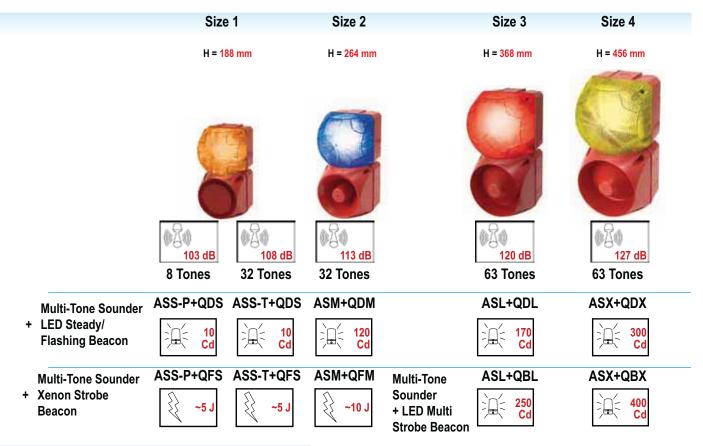
			Tone o	ptions		Volt.		Order No.		Orde	r No.	
Туре	Denomination	Light source	Tone types	Max. sound press. (dB)	Nominal voltage (V)	range (V)	Nominal current (A)		Price			Price
	Light Modules											
HDL	LED steady light amber, red, yellow	integrated			(24 V AC/DC)		max. 0,042	745 00 <b>C</b> 900 <b>P</b>				
IIDE	LED steady light clear, blue, green	LEDs			(Z+ V NOIDO)		max. 0,042	745 00 <b>C</b> 900 <b>P</b>				
HDB	LED flashing light amber, red, yellow	integrated			(24 V AC/DC)		max. 0,042	745 01 <b>C</b> 900 <b>P</b>				
IIDD	LED flashing light clear, blue, green	LEDs			(24 V AOIDO)		max. 0,042	745 01 <b>C</b> 900 <b>P</b>				
	Buzzer Module											
HDZ	Piezo buzzer		continuous and pulsing	70-90**	(24 V AC/DC)		max. 0,062	745 020 900				
	Housings							Housing grey		Housing chrome	Housing black	
HD2	Housing for 2 lights							745 102 405		745 502 405	745 802 405	
HD3	Housing for 3 lights				24 V AC/DC	+/-		745 103 405		745 503 405	745 803 405	
HD4	Housing for 4 lights				24 V AC/DC	10%		745 104 405		745 504 405	745 804 405	
HD5	Housing for 5 lights							745 105 405		745 505 405	745 805 405	
HD2	Housing for 2 lights							745 102 310		745 502 310	745 802 310	
HD3	Housing for 3 lights				110/120 V AC	+/-		745 103 310		745 503 310	745 803 310	
HD4	Housing for 4 lights				110/120 V AC	10%		745 104 310		745 504 310	745 804 310	
HD5	Housing for 5 lights							745 105 310		745 505 310	745 805 310	
HD2	Housing for 2 lights							745 102 313		745 502 313	745 802 313	
HD3	Housing for 3 lights				230/240 \/ AC	+/-		745 103 313		745 503 313	745 803 313	
HD4	Housing for 4 lights				230/240 V AC	10%		745 104 313		745 504 313	745 804 313	
HD5	Housing for 5 lights							745 105 313		745 505 313	745 805 313	

NOTE:

Additional voltages available

<sup>\*\*</sup> Adjustable by potentiometer

# Combinations Multi-Tone Alarm Sounder "A" - Beacons "Q"



#### **Features**

- Comprehensive range of standard and high output alarm sounders in combination with cubic design beacons in LED or xenon technique
- 3 stage alarm/tones externally switchable (ASS-T, ASM, ASL, ASX)
- For applications in the industry, process control, fire/gas alarm, marine, etc.
- Versatile installation and mounting options
- Tone table includes international and standardized signal tones for fire/gas alarm and other applications
- Sound and light separately switchable
- Beacon options

# 1) In most up-to-date LED technique

(long lifetime, low nominal current, vibrationproof)

- LED steady/flashing beacons (size 1-4)
- LED multi strobe beacons (size 3-4)
   very bright, high signalling effect, 3 strobe patterns
   (double, 6 times, multi strobe), externally switchable

### 2) In conventional xenon technique

(classic signalling with good signalling effect)

- xenon strobe beacons 5 10 J strobe energy (size 1-2)
- Optional/customized tones/tone tables upon request
- Automatic synchronization in multi-sounder installations
- Fit for plc applications (leakage, inrush current)

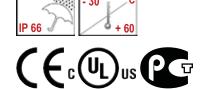
The Candela values refer to colour clear (white) at 230 V operating voltage and a measuring angle of 1° in axial direction.

## Tone table

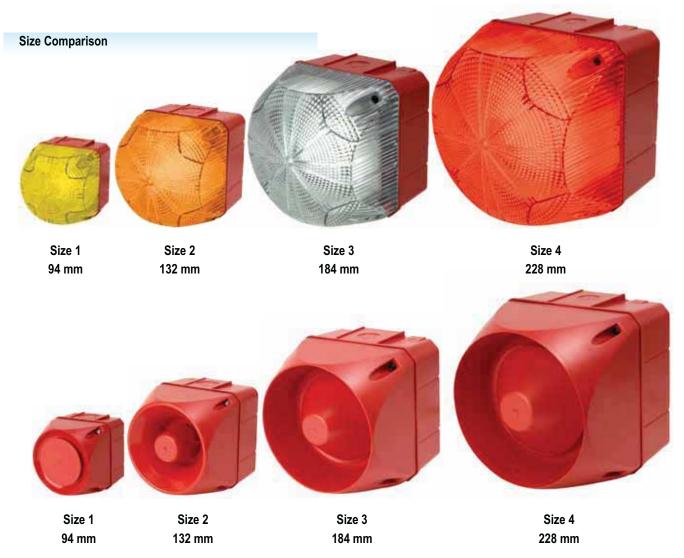
please refer to pages 67-69.

## **Accessories and Installation options**

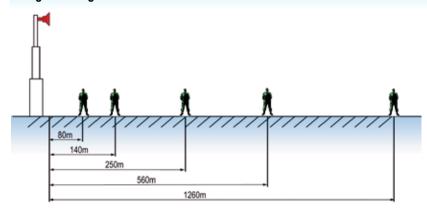
for details please refer to page 64/66.







# **Signal Recognition**



Sounder Type	Max. sound pressure level dB (A) in 1 m	Effective range of signal recognition (min. 65 dB) in m	Approx. area of signal recognition (min. 65 dB) in m <sup>2</sup>		
ASS-P	103	80	20.000		
ASS-T	108	140	62.000		
ASM	113	250	200.000		
ASL	120	560	1.000.000		
ASX	127	1.260	5.000.000		

The sound pressure decreases depending on the distance between sounder and hearer (see also table "reduction of sound pressure over distance" in the AUER catalogue). The illustration shows the maximum distance at which a minimum sound pressure of 65 dB is achieved.

Assumptions here are ideal environmental conditions (wind, rain, humidity, fog, etc.) as well as type and frequency of the tone used.

The directive efficiency of the sounder increases with an increasing tone frequency.

# Combinations Multi-Tone Alarm Sounder "A" – Beacons "Q"

Туре	Denomination	Max. sound pressure (dB A)	Nominal voltage (V)	Voltage range (V)	Nominal current (A)	Order No. Housing red	Price
			24 V AC/DC		0,100	874 060 405	
ASS-P	Multi-tone alarm sounder	103**	48 V AC/DC	+/- 10%	0,075	874 060 408	
ASS-P	size 1, 8 tones	103	110/120 V AC	T/- 1076	0,040	874 060 310	
			230/240 V AC		0,040	874 060 313	
			24 V AC/DC		0,120	874 160 405	
400 T	Multi-tone alarm sounder	400**	48 V AC/DC	. / 400/	0,090	874 160 408	
ASS-T	size 1, 32 tones	108**	110/120 V AC	+/- 10%	0,042	874 160 310	
			230/240 V AC		0,022	874 160 313	
			24 V AC/DC		0,120	874 260 405	
	Multi-tone alarm sounder		48 V AC/DC		0,090	874 260 408	
ASM	size 2, 32 tones	113**	110/120 V AC	+/- 10%	0,042	874 260 310	
			230/240 V AC		0,022	874 260 313	
			24-48 V AC/DC		1,050	874 360 408	
ASL	Multi-tone alarm sounder	120**	110/120 V AC	+/- 10%	0,170	874 360 310	
7102	size 3, 63 tones	120	230/240 V AC	1070	0,085	874 360 313	
			24-48 V AC/DC		2,000	874 460 408	
ASX	Multi-tone alarm sounder	127	110/120 V AC	+/- 10%	0,350	874 460 310	
ASA	size 4, 63 tones	121		T/- 10 /0		874 460 313	
			230/240 V AC		0,170	074 400 313	
			24 V AC/DC		0,110	874 16 <b>C</b> 405	
ODC	LED steady/flashing beacon size 1	LED	48 V AC/DC	./ 400/	0,065	874 16C 408	
QDS	amber, red, yellow	10 Cd	110/120 V AC	+/- 10%	0,060	874 16C 310	
	ambol, roa, yollow		230/240 V AC		0,060	874 16C 313	
			24 V AC/DC		0,110	874 16C 405	
	LED steady/flashing beacon size 1	peacon LED 10 Cd	48 V AC/DC	+/- 10%	0,065	874 16C 408	
QDS			110/120 V AC		0,060	874 16C 310	
	clear, blue, green		230/240 V AC		0,060	874 16 <b>C</b> 313	
QDM	LED steady/flashing beacon size 2	LED 120 Cd	24-48 V AC/DC	16-60 V DC 16-53 V AC	max. 0,300	874 26 <b>C</b> 408	
	amber, red, yellow	120 Gu	110-240 V AC/DC	80-265 V AC/DC	max. 0,070	874 26C 413	
QDM	LED steady/flashing beacon size 2	LED	24-48 V AC/DC	16-60 V DC 16-53 V AC	max. 0,300	874 26C 408	
	clear, blue, green	120 Cd	110-240 V AC/DC	80-265 V AC/DC	max. 0,070	874 26C 413	
QDL	LED steady/flashing beacon size 3	LED	24-48 V AC/DC	18-60 V DC 18-53 V AC	max. 0,780	874 36C 408	
	amber, red, clear, yellow	170 Cd	110-240 V AC/DC	80-265 V AC/DC	max. 0,210	874 36 <b>C</b> 413	
QDL	LED steady/flashing beacon size 3	LED	24-48 V AC/DC	18-60 V DC 18-53 V AC	max. 0,780	874 36C 408	
₹DE	blue, green	170 Cd	110-240 V AC/DC	80-265 V AC/DC	max. 0,210	874 36C 413	
QDX	LED steady/flashing beacon size 4	LED 300 Cd	24-48 V AC/DC	18-60 V DC 18-53 V AC	max. 1,800	874 46 <b>C</b> 408	
	amber, red, clear, yellow		110-240 V AC/DC	80-265 V AC/DC	max. 0,350	874 46 <b>C</b> 413	
QDX	LED steady/flashing beacon size 4	SOU CH	24-48 V AC/DC	18-60 V DC 18-53 V AC	max. 1,800	874 46 <b>C</b> 408	
	blue, green	300 Cd	110-240 V AC/DC	80-265 V AC/DC	max. 0,350	874 46 <b>C</b> 413	

<sup>\*\*</sup> Adjustable by potentiometer





Туре	Denomination	Max. sound pressure (dB A)	Nominal voltage (V)	Voltage range (V)	Nominal current (A)	Order No. Housing red	Price
	Xenon strobe beacon size 1	xenon tube	24-48 V AC/DC	18-53 V AC/DC	0,450	874 56C 408	
QFS		xenon tube 5 J	110/120 V AC	+/- 10%	0,150	874 56 <b>C</b> 310	
	0.20		230/240 V AC	T/- 1U /0	0,075	874 56 <b>C</b> 313	
	Xenon strobe beacon	xenon tube	24-48 V AC/DC	18-53 V AC/DC	0,900	874 66 <b>C</b> 408	
QFM	size 2	10 J	110/120 V AC	+/- 10%	0,260	874 66C 310	
	0.20 2		230/240 V AC	T/- 1U /0	0,160	874 66C 313	
	LED multi strobe beacon	LED	24-48 V AC/DC	18-60 V DC	max. 0,810	874 76 <b>C</b> 408	
QBL	size 3	250 Cd	24-40 V AO/DO	18-53 V AC	111ax. 0,010	074 700 400	
	amber, red, clear, yellow	200 00	110-240 V AC/DC	80-265 V AC/DC	max. 0,220	874 76 <b>C</b> 413	
	LED multi strobe beacon size 3	LED	24-48 V AC/DC	18-60 V DC	max. 0,810	874 76 <b>C</b> 408	
QBL		LED 250 Cd	24-40 V AO/DO	18-53 V AC	111ax. 0,010	074 700 400	
	blue, green	200 00	110-240 V AC/DC	80-265 V AC/DC	max. 0,220	874 76 <b>C</b> 413	
	LED multi strobe beacon	150	24-48 V AC/DC	18-60 V DC	may 1 700	874 86 <b>C</b> 408	
QBX	size 4	LED 400 Cd	24-40 V AU/DU	18-53 V AC	max. 1,700	074 000 400	
	amber, red, clear, yellow	400 Ou	110-240 V AC/DC	80-265 V AC/DC	max. 0,400	874 86C 413	
	LED multi strobe beacon	150	24-48 V AC/DC	18-60 V DC	may 1 700	874 86 <b>C</b> 408	
QBX	size 3	LED 400 Cd	24-40 V AC/DC	18-53 V AC	max. 1,700	014 000 400	
	blue, green	<del>1</del> 00 00	110-240 V AC/DC	80-265 V AC/DC	max. 0,400	874 86C 413	

# Accessories

Туре	Denomination	Order No.	Price
AMK	mounting kit for combinations of multi tone alarm sounders "A" and/or beacons "Q"	874 010 900	
AG1	flat gasket for size 1 multi tone alarm sounders "A" and/or beacons "Q"	874 021 900	
AG2	flat gasket for size 2 multi tone alarm sounders "A" and/or beacons "Q"	874 022 900	
AG3	flat gasket for size 3 multi tone alarm sounders "A" and/or beacons "Q"	874 023 900	
AG4	flat gasket for size 4 multi tone alarm sounders "A" and/or beacons "Q"	874 024 900	
AB1	metal bracket kit for size 1 multi tone alarm sounders "A" and/or beacons "Q"	874 031 900	
AB2	metal bracket kit for size 2 multi tone alarm sounders "A" and/or beacons "Q"	874 032 900	
AB3	metal bracket kit for size 3 multi tone alarm sounders "A" and/or beacons "Q"	874 033 900	
AB4	metal bracket kit for size 4 multi tone alarm sounders "A" and/or beacons "Q"	874 034 900	
AKV	cable gland M20x1,5 for multi tone alarm sounders "A" and/or beacons "Q"	698 800 026	

# Multi-Tone Alarm Sounders "A" with Light Indicator

	Siz	ze 1	Size 2	Size 3	Size 4
	H = 9	4 mm	H = 173 mm	H = 239 mm	H = 284 mm
	0				
	103 dB 8 Tones	108 dB 32 Tones	113 dB 32 Tones	120 dB 63 Tones	127 dB 63 Tones
Multi-tone alarm sounder	ADS-P	ADS-T	ADM	ADL	ADX
+ LED steady/ flashing light indicator	1,5 Cd	1,5 Cd	2,3 Cd	3 Cd	3 Cd
Multi-tone alarm sounder + LED strobe light indicator			ACM 4,6 Cd	ACL 6 Cd	ACX  6 Cd

# **Features**

- Comprehensive range of visual-audible signalling products with dominant audible multi tone sounder and additional visual light indicator
- 3 tones externally switchable (ADS-T, ADM/ACM, ADL/ACL, ADX/ACX)
- For most different visual-audible signalling requirements in the industry, process control, fire/gas alarm, marine, etc.
- Light indicators in most up-to-date LED technique (long lifetime, low current consumption, vibration proof):
  - LED steady/flashing light indicators or
  - LED strobe light indicators (2 strobe patterns - double/6 times strobe)
- Versatile installation and mounting options
- Tone and light separately switchable
- Tone table includes international and standardized signal tones for fire/gas alarm and other applications
- Optional/customized tones/tone tables upon request
- Fit for plc applications (leakage, inrush current)

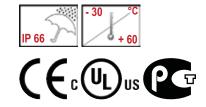
#### Tone table

please refer to page 67-69.

# Accessories and Installation options:

for details please refer to page 64/66.

The Candela values refer to colour clear (white) at 230 V operating voltage and a measuring angle of 1° in axial direction.







Туре	Denomination	Max. sound pressure (dB A)	Nominal voltage (V)	Voltage range (V)	Nominal current (A)	Order No. Housing red	Price
	Multi-tone alarm sounder size 1		24 V AC/DC		0,120	875 06 <b>C</b> 405	
ADS-P	with LED steady indicator 8 tones	103**	110/120 V AC	+/- 10%	0,065	875 06 <b>C</b> 310	
	amber, red, yellow		230/240 V AC		0,065	875 06 <b>C</b> 313	
	Multi-tone alarm sounder size 1		24 V AC/DC		0,120	875 06 <b>C</b> 405	
ADS-P	with LED steady indicator 8 tones	103**	110/120 V AC	+/- 10%	0,065	875 06 <b>C</b> 310	
	clear, blue, green		230/240 V AC		0,065	875 06 <b>C</b> 313	
	Multi-tone alarm sounder size 1		24 V AC/DC		0,160	875 16 <b>C</b> 405	
ADS-T	with LED steady/flashing indicator	108**	110/120 V AC	+/- 10%	0,050	875 16 <b>C</b> 310	
	32 tones amber, red, yellow		230/240 V AC		0,025	875 16 <b>C</b> 313	
	Multi-tone alarm sounder size 1		24 V AC/DC		0,160	875 16 <b>C</b> 405	
ADS-T	with LED steady/flashing indicator	108**	110/120 V AC	+/- 10%	0,050	875 16 <b>C</b> 310	
	32 tones clear, blue, green		230/240 V AC		0,025	875 16 <b>C</b> 313	
	Multi-tone alarm sounder size 2		24 V AC/DC		0,600	875 26 <b>C</b> 405	
ADM	with LED steady/flashing indicator	113**	110/120 V AC	+/- 10%	0,072	875 26 <b>C</b> 310	
ADIII	32 tones amber, red, yellow	110	230/240 V AC	17- 1070	0,052	875 26 <b>C</b> 313	
	Multi-tone alarm sounder size 2		24 V AC/DC		0,600	875 26 <b>C</b> 405	
4 D.M	with LED steady/flashing indicator	44.0**		. / 400/	·		
ADM	32 tones	113**	110/120 V AC	+/- 10%	0,072	875 26 <b>C</b> 310	
	clear, blue, green		230/240 V AC		0,052	875 26 <b>C</b> 313	
	Multi-tone alarm sounder size 3 with LED steady/flashing indicator		24 V AC/DC		1,110	875 36 <b>C</b> 405	
ADL	63 tones	120**	110/120 V AC	+/- 10%	0,200	875 36 <b>C</b> 310	
	amber, red, yellow		230/240 V AC		0,116	875 36 <b>C</b> 313	
	Multi-tone alarm sounder size 3		24 V AC/DC		1,110	875 36 <b>C</b> 405	
ADL	with LED steady/flashing indicator 63 tones	120**	110/120 V AC	+/- 10%	0,200	875 36 <b>C</b> 310	
	clear, blue, green		230/240 V AC		0,116	875 36 <b>C</b> 313	
	Multi-tone alarm sounder size 4		24 V AC/DC		2,060	875 46 <b>C</b> 405	
ADX	with LED steady/flashing indicator 63 tones, amber, red, yellow	127	110/120 V AC	+/- 10%	0,380	875 46 <b>C</b> 310	
			230/240 V AC		0,200	875 46 <b>C</b> 313	
	Multi-tone alarm sounder size 4		24 V AC/DC		2,060	875 46 <b>C</b> 405	
ADX	with LED steady/flashing indicator 63 tones	127	110/120 V AC	+/- 10%	0,380	875 46 <b>C</b> 310	
	clear, blue, green		230/240 V AC		0,200	875 46 <b>C</b> 313	
	Multi-tone alarm sounder size 2		24 V AC/DC		0,230	875 66 <b>C</b> 405	
ACM	with LED strobe light indicator	113**	110/120 V AC	+/- 10%	0,075	875 66 <b>C</b> 310	
	32 tones amber, red, yellow		230/240 V AC		0,550	875 66 <b>C</b> 313	
	Multi-tone alarm sounder size 2		24 V AC/DC		0,230	875 66 <b>C</b> 405	
ACM	with LED strobe light indicator	113**	110/120 V AC	+/- 10%	0,075	875 66 <b>C</b> 310	
	32 tones clear, blue, green		230/240 V AC	,,	0,550	875 66 <b>C</b> 313	
	Multi-tone alarm sounder size 3		24 V AC/DC		1,205	875 76 <b>C</b> 405	
ACL	with LED strobe light indicator	120**	110/120 V AC	+/- 10%	0,215	875 76 <b>C</b> 310	
AUL	63 tones amber, red, yellow	120		17- 1070			
	Multi-tone alarm sounder size 3		230/240 V AC		0,130	875 76 <b>C</b> 313 875 76 <b>C</b> 405	
AC!	with LED strobe light indicator	400**	24 V AC/DC	. / 400/	1,205		
ACL	63 tones	120**	110/120 V AC	+/- 10%	0,215	875 76 <b>C</b> 310	
	clear, blue, green		230/240 V AC		0,130	875 76 <b>C</b> 313	
	Multi-tone alarm sounder size 4 with LED strobe light indicator		24 V AC/DC		2,155	875 86 <b>C</b> 405	
ACX	63 tones	127	110/120 V AC	+/- 10%	0,295	875 86 <b>C</b> 310	
	amber, red, yellow		230/240 V AC		0,185	875 86 <b>C</b> 313	
	Multi-tone alarm sounder size 4 with LED strobe light indicator		24 V AC/DC		2,155	875 86 <b>C</b> 405	
ACX	63 tones	127	110/120 V AC	+/- 10%	0,295	875 86 <b>C</b> 310	
	clear, blue, green		230/240 V AC		0,185	875 86C 313	

# Beacons "Q" with Buzzer Indicator

	Size 1	Size 2	Size 3	Size 4
	H = 104 mm	H = 166 mm	H = 207 mm	H = 272 mm
				*
	80 dB 2 Tones	100 dB 2 Tones	105 dB 3 Tones	105 dB 3 Tones
LED Steady/	QSS	QSM	QSL	QSX
Flashing Beacons + Buzzer Indicator	10 Cd	120 Cd	170 Cd	300 Cd
Xenon Strobe	QTS	<b>~</b>	ılti Strobe QCL	QCX
Beacon + Buzzer Indicator	er ~5 J	Beacon Buzzer	Indicator 250 Cd	400 Cd

#### **Features**

- Comprehensive range of visual-audible signalling products with dominant beacon and additional buzzer indicator
- For most different visual-audible signalling requirements in the industry, process control, fire/gas alarm, marine, etc.
- Buzzer indicators with up-to-date piezo technique
   2 tones steady/pulsing tone (size 1-2)
   3 tones steady/pulsing/wobble tone (size 3-4)
- Versatile installation and mounting options
- Light and tone separately switchable

#### Beacon options

### 1.) In most up-to-date LED technique

(long lifetime, low current consumption, vibration proof):

- LED steady/flashing beacons (size 1-4) and
- LED multi strobe beacons 3 strobe patterns (double, 6 times, multi strobe), externally switchable (size 3-4)

## 2.) In conventional xenon strobe technique

(classic signalling with good signalling effect):

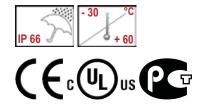
- xenon strobe beacons with ~5 J and 10 J strobe energy (size 1-2)
- Fit for plc applications (leakage, inrush current)

### **Accessories and Installation options**

for details please refer to page 64/66.

The Candela values refer to colour clear (white) at 230 V operating voltage and a measuring angle of 1° in axial direction.

\* Volume adjustable by potentiometer







Туре	Denomination	Light source	Nominal voltage (V)	Voltage range (V)	Nominal current (A)	Order No. Housing red	Price
	LED steady/flashing beacon size 1	150	24 V AC/DC		0,156	876 16C 405	
QSS	with buzzer indicator	LED 10 Cd	110/120 V AC	+/- 10%	0,077	876 16C 310	
	amber, red, yellow	10 Cu	230/240 V AC		0,080	876 16C 313	
	LED steady/flashing beacon size 1		24 V AC/DC		0,156	876 16C 405	
QSS	with buzzer indicator	LED 10 Cd	110/120 V AC	+/- 10%	0,077	876 16C 310	
	clear, blue, green	10 00	230/240 V AC		0,080	876 16C 313	
	LED steady/flashing beacon size 2	150	24 V AC/DC		0,320	876 26C 405	
QSM	with buzzer indicator	LED 120 Cd	110/120 V AC	+/- 10%	0,112	876 26C 310	
	amber, red, yellow	120 Ou	230/240 V AC		0,110	876 26C 313	
	LED steady/flashing beacon size 2	150	24 V AC/DC		0,320	876 26C 405	
QSM	with buzzer indicator	LED 120 Cd	110/120 V AC	+/- 10%	0,112	876 26C 310	
	clear, blue, green	120 00	230/240 V AC		0,110	876 26C 313	
	LED steady/flashing beacon size 3	150	24 V AC/DC		0,837	876 36C 405	
QSL	with buzzer indicator	LED 170 Cd	110/120 V AC	+/- 10%	0,252	876 36C 310	
	amber, red, clear, yellow	170 00	230/240 V AC		0,254	876 36C 313	
	LED steady/flashing beacon size 3	LED	24 V AC/DC		0,837	876 36C 405	
QSL	with buzzer indicator	LED 170 Cd	110/120 V AC	+/- 10%	0,252	876 36C 310	
	blue, green	170 00	230/240 V AC		0,254	876 36C 313	
	LED steady/flashing beacon size 4	LED	24 V AC/DC		1,860	876 46C 405	
QSX	with buzzer indicator	300 Cd	110/120 V AC	+/- 10%	0,392	876 46C 310	
	amber, red, clear, yellow	000 00	230/240 V AC		0,394	876 46C 313	
	LED steady/flashing beacon size 4	LED	24 V AC/DC	+/- 10%	1,860	876 46C 405	
QSX	with buzzer indicator	300 Cd	110/120 V AC		0,392	876 46C 310	
	blue, green		230/240 V AC		0,394	876 46C 313	
	Xenon strobe beacon size 1	xenon tube	24 V AC/DC		0,496	876 56 <b>C</b> 405	
QTS	with buzzer indicator	~5 J	110/120 V AC	+/- 10%	0,167	876 56C 310	
			230/240 V AC		0,095	876 56 <b>C</b> 313	
	Xenon strobe beacon size 2	xenon tube	24 V AC/DC		0,919	876 66 <b>C</b> 405	
QTM	with buzzer indicator	~10 J	110/120 V AC	+/- 10%	0,302	876 66C 310	
			230/240 V AC		0,200	876 66C 313	
	LED multi strobe beacon size 3	LED	24 V AC/DC		0,867	876 76 <b>C</b> 405	
QCL	with buzzer indicator	250 Cd	110/120 V AC	+/- 10%	max. 0,262	876 76C 310	
	amber, red, clear, yellow		230/240 V AC		max. 0,264	876 76C 313	
	LED multi strobe beacon size 3	LED	24 V AC/DC		0,867	876 76 <b>C</b> 405	
QCL	with buzzer indicator	250 Cd	110/120 V AC	+/- 10%	max. 0,262	876 76C 310	
	blue, green		230/240 V AC		max. 0,264	876 76 <b>C</b> 313	
	LED multi strobe beacon size 4	LED	24 V AC/DC		max. 1,760	876 86 <b>C</b> 405	
QCX	with buzzer indicator	400 Cd	110/120 V AC	+/- 10%	max. 0,440	876 86 <b>C</b> 310	
	amber, red, clear, yellow		230/240 V AC		max. 0,440	876 86 <b>C</b> 313	
	LED multi strobe beacon size 4	LED	24 V AC/DC		max. 1,760	876 86 <b>C</b> 405	
QCX	with buzzer indicator	400 Cd	110/120 V AC	+/- 10%	max. 0,440	876 86 <b>C</b> 310	
	blue, green		230/240 V AC		max. 0,440	876 86C 313	

# Accessories

Туре	Denomination	Order No.	Price
AMK	Mounting kit for combinations of multi tone alarm sounders "A" and/or beacons "Q"	874 010 900	
AG1	Flat gasket for size 1 multi tone alarm sounders "A" and/or beacons "Q"	874 021 900	
AG2	Flat gasket for size 2 multi tone alarm sounders "A" and/or beacons "Q"	874 022 900	
AG3	Flat gasket for size 3 multi tone alarm sounders "A" and/or beacons "Q"	874 023 900	
AG4	Flat gasket for size 4 multi tone alarm sounders "A" and/or beacons "Q"	874 024 900	
AB1	Metal bracket kit for size 1 multi tone alarm sounders "A" and/or beacons "Q"	874 031 900	
AB2	Metal bracket kit for size 2 multi tone alarm sounders "A" and/or beacons "Q"	874 032 900	
AB3	Metal bracket kit for size 3 multi tone alarm sounders "A" and/or beacons "Q"	874 033 900	
AB4	Metal bracket kit for size 4 multi tone alarm sounders "A" and/or beacons "Q"	874 034 900	
AKV	Cable gland M20x1,5 for multi tone alarm sounders "A" and/or beacons "Q"	698 800 026	

# Mini Horn-Signal Beacon KLL - KDL Mini Horn-Strobe Beacon KLF - KDF

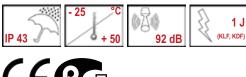
## KLL-KDL KLF-KDF



KLL – KLF KDL – KDF

#### **Features**

- Combination of electromechanical horn with signal beacon or strobe beacon
- For universal visual-audible applications
- 6 lens colours
- Beacon options: steady light with bulb or LED bulb (LLL) flashing light with LED bulb (LLB)
- Models with or without cone
- Sound and light separately switchable
- Attractive price/performance ratio





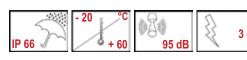
# Strobe Beacon-Signalling Sounder VS4

## VS4



## **Features**

- Visual-audible signalling sounder for weatherproof applications - IP 66
- ▶ For high weatherproof applications in industries, buildings, etc.
- 2 tone types and tone frequencies/settings selectable
- Lens colours amber, red, clear, blue, green
- Aluminium-die cast housing









		Light source		Tone o	options					Order No.		
Туре	Denomination	Bulb GL	LED bulb steady light LLL	LED bulb flash. light LLB	Tone types	Max. sound pressure (dB)	Nominal voltage (V)	Hz	Voltage range (V)	Nominal current (A) incl. 7W bulb	Housing grey	Price
							12 V AC	50		0,750	710 11C 104	
							24 V AC	50		0,400	710 11C 105	
						88	48 V AC	50		0,200	710 11C 108	
							230V AC	50		0,040	710 11 <b>C</b> 113	
KLL	Mini horn-signal beacon with cone	Χ	Х	Χ	cont.		120 V AC	60	+/- 10%	0,076	710 11 <b>C</b> 210	
							12 V DC	-		0,640	710 11 <b>C</b> 004	
						92	24 V DC	-		0,320	710 11C 005	
						92	48 V DC	-		0,170	710 11 <b>C</b> 008	
							220 V DC	-		0,042	710 11 <b>C</b> 013	
					cont.		12 V AC	50		0,750	710 01 <b>C</b> 104	
			х	X			24 V AC	50		0,400	710 01 <b>C</b> 105	
						88	48 V AC	50		0,200	710 01 <b>C</b> 108	
							230V AC	50		0,040	710 01 <b>C</b> 113	
KDL	Mini horn-signal beacon without cone	Χ					120 V AC	60	+/- 10%	0,076	710 01 <b>C</b> 210	
	without cone					92	12 V DC	-		0,640	710 01 <b>C</b> 004	
							24 V DC	-		0,320	710 01C 005	
						92	48 V DC	-		0,170	710 01C 008	
							220 V DC	-		0,042	710 01C 013	
						88	120 V AC	60		0,050	710 12C 210	
KLF	Mini horn-strobe beacon	4		م ما،		00	230 V AC	50	+/- 10%	0,026	710 12C 113	
KLF	with cone	l d	J xenon tu	ibe	cont.	92	12 V DC	-	T/- 10 /0	0,170	710 12C 004	
						32	24 V DC	-		0,120	710 12C 005	
						88	120 V AC	60		0,050	710 02C 210	
KDF	Mini horn-strobe beacon					00	230 V AC	50	+/- 10%	0,026	710 02C 113	
KUF	without cone	1.	J xenon tu	ibe	cont.	92	12 V DC	-		0,170	710 02C 004	
						92	24 V DC	-		0,120	710 02 <b>C</b> 005	

NOTE: KLL/KDL: product also available in voltages 110 V DC, 100 V AC 50 Hz

GL01-GL06 bulbs have to be ordered separately



# Order data

Туре	Denomination	Light source	Tone options				Order No	
			Tone types	Max. sound press. (dB)	Nominal voltage (V)	Voltage range (V)	Housing black	Price
VS4	Strobe beacon- signalling sounder	3 J xenon tube	two/three tones	95**	230 V AC	+/- 10%	410 40C 005	

<sup>\*\*</sup> Adjustable by potentiometer

# M22 Panel Mount Buzzer-LED Steady/Flashing Beacons ELG - EDG, ELM - EDM

#### **ELG - EDG** ELM - EDM



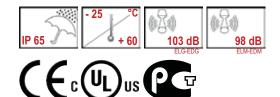
**ELG-EDG ELM - EDM** 

Ø 65 mm Ø 45 mm



#### **Features**

- Versatile M22 panel mount buzzers with LED control light
- 2 sizes Ø 65 mm, 45 mm
- 2 versions: tone and light synchronized (ELG-ELM) tone and light separately switchable (EDG-EDM)
- Tone type selection via terminal
- Volume individually adjustable also in built-in condition
- LED control light maintenance free, high brightness
- Plc fit (leakage, inrush current)
- For mounting in standard 22,5 mm or 30,5 mm bore holes (with adapter)



# **LED Flashing Beacon-Electronic Multitone Siren CS1**



#### **Features**

- Cost-effective LED flashing beacon-electronic multitone siren
- 32 tone options
- Second stage alarm
- Lens colours amber, red, clear, blue













			Max. sound		V 16		Orde	er No.	
Туре	Denomination	Light source	press. (dB)	Nominal voltage (V)	Voltage range (V)	Nominal current (A)	Housing grey	Housing black	Price
	Tone and light synchronized								
	Panel mount buzzer-			24 V AC/DC		0,047	814 11 <b>C</b> 405	814 51 <b>C</b> 405	
	LED steady/flashing beacon			110/120 V AC		0,060	814 11 <b>C</b> 310	814 51 <b>C</b> 310	
ELG	amber, red, yellow		103**	230/240 V AC		0,063	814 11 <b>C</b> 313	814 51 <b>C</b> 313	
65 mm Ø)	Panel mount buzzer-		103	24 V AC/DC		0,047	814 11 <b>C</b> 405	814 51 <b>C</b> 405	
	LED steady/flashing beacon			110/120 V AC		0,060	814 11 <b>C</b> 310	814 51 <b>C</b> 310	
	clear, blue, green	LED		230/240 V AC	+/- 10%	0,063	814 11 <b>C</b> 313	814 51 <b>C</b> 313	
	Panel mount buzzer-	LLD		24 V AC/DC	1/- 10/0	0,058	813 11 <b>C</b> 405	813 51 <b>C</b> 405	
	LED steady/flashing beacon amber, red, yellow			110/120 V AC		0,042	813 11 <b>C</b> 310	813 51 <b>C</b> 310	
<b>ELM</b> (45 mm Ø)			98 **	230/240 V AC		0,040	813 11 <b>C</b> 313	813 51 <b>C</b> 313	
	Panel mount buzzer-		30	24 V AC/DC		0,058	813 11C 405	813 51 <b>C</b> 405	
	LED steady/flashing beacon clear, blue, green			110/120 V AC		0,042	813 11 <b>C</b> 310	813 51 <b>C</b> 310	
				230/240 V AC		0,040	813 11 <b>C</b> 313	813 51 <b>C</b> 313	
	Tone and light separately switch	chable							
	Panel mount buzzer-			24 V AC/DC		0,095	814 12C 405	814 52C 405	
	LED steady/flashing beacon			110/120 V AC		0,052	814 12C 310	814 52C 310	
EDG	amber, red, yellow		103**	230/240 V AC		0,052	814 12C 313	814 52C 313	
65 mm Ø)	Panel mount buzzer-		103	24 V AC/DC		0,095	814 12C 405	814 52 <b>C</b> 405	
	LED steady/flashing beacon			110/120 V AC		0,052	814 12C 310	814 52C 310	
	clear, blue, green	LED		230/240 V AC	+/- 10%	0,052	814 12C 313	814 52C 313	
	Panel mount buzzer-	LED		24 V AC/DC	T/- 1U /0	0,073	813 12C 405	813 52 <b>C</b> 405	
	LED steady/flashing beacon			110/120 V AC		0,051	813 12C 310	813 52 <b>C</b> 310	
<b>EDM</b> (45 mm Ø)	amber, red, yellow		98**	230/240 V AC		0,051	813 12C 313	813 52 <b>C</b> 313	
	Panel mount buzzer-		30	24 V AC/DC		0,073	813 12C 405	813 52 <b>C</b> 405	
	LED steady/flashing beacon			110/120 V AC		0,051	813 12C 310	813 52 <b>C</b> 310	
	clear, blue, green		230/240 V AC		0,051	813 12C 313	813 52C 313		

# Accessories

Туре	Denomination	Order No.	Price
	Adapter M30,5	812 500 900	



	Type Denomination		Tone options				Order No.		
Туре		Light source	Tone types	Max. sound press. (dB)	Nominal voltage (V)	Voltage range (V)	Housing red	Housing white	Price
CS1	LED flashing beacon- electronic multitone siren amber, red	LED	32	88-109*	24 V DC	18-35	C111 62C 005	C111 22C 005	
CSI	LED flashing beacon- electronic multitone siren clear, blue	LED flashing beacon- electronic multitone siren	32			18-35	C111 62C 005	C111 22C 005	

NOTE: Tone table: www.auer-signal.com

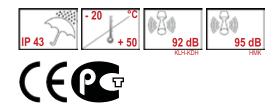
<sup>\*</sup> Adjustable via DIP switch

# Mini Horns KLH - KDH, HMK



#### **Features**

- ▶ Electromechanical horns in smaller design
- For universal audible applications
- Models with (KLH) or without cone (KDH)
- Attractive price-performance ratio
- Wide voltage range
- Special lift-alarm models with reduced nominal current (KDH-L)



# **Signal Horns HPT - HTG**

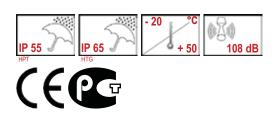
HPT - HTG

HPT - HTG

HTG

#### **Features**

- Loud, well designed and robust electromechanical signal horns
- For universal audible applications
- Housing options: impact resistant synthetic housing (HPT) aluminium die-cast housing (HTG)
- Screw holes fortified (HPT)
- Wide voltage range
- ▶ HTG-L: special RILSAN-coating against galvanic corrosion (for vessels, etc.)







		Tone option	ons					Order No.	
Туре	Denomination	Tone types	Max. sound press. (dB)	Nominal voltage (V)	Hz	Voltage range (V)	Nominal current (A)	Housing grey	Price
				24 V AC	50		0,090	710 100 105	
			88	48 V AC	50		0,060	710 100 108	
				230 V AC	50		0,011	710 100 113	
KLH	Mini horn with cone	continuous		12 V DC		+/- 10%	0,055	710 100 004	
			92	24 V DC			0,026	710 100 005	
			92	48 V DC			0,016	710 100 008	
				220 V DC			0,011	710 100 013	
		continuous	88	24 V AC	50		0,090	710 000 105	
				48 V AC	50		0,060	710 000 108	
				230 V AC	50		0,011	710 000 113	
KDH	Mini horn without cone			12 V DC		+/- 10%	0,055	710 000 004	
			92	24 V DC			0,026	710 000 005	
				48 V DC			0,016	710 000 008	
				220 V DC			0,011	710 000 013	
KDH-L	Lift alarm	continuous	85	6 V DC		+/- 10%	0,065	710 030 003	
				24 V AC	50		0,260	711 000 105	
			95	48 V AC	50		0,150	711 000 108	
				230 V AC	50		0,026	711 000 113	
HMK	Mini horn	continuous		12 V DC		+/- 10%	0,150	711 000 004	
			OF	24 V DC			0,060	711 000 005	
			95	48 V DC			0,033	711 000 008	
				220 V DC			0,008	711 000 013	

NOTE: Also available in volatages: 6, 60, 110 V DC; 6, 12, 42, 60 V AC; 110 V AC 50 Hz; 120 V AC 60 Hz



		Tone opt	ions					Order No.	
Туре	Denomination	Tone types	Max. sound press. (dB)	Nominal voltage (V)	Hz	Voltage range (V)	Nominal current (A)	Housing grey	Price
				12 V AC	50		2,000	712 100 104	
				24 V AC	50		1,200	712 100 105	
				48 V AC	50		0,500	712 100 108	
				230 V AC	50		0,100	712 100 113	
HPT	Signal horn	continuous	108	120 V AC	60	+/- 10%	0,200	712 100 211	
				12 V DC			1,000	712 100 004	
				24 V DC			0,600	712 100 005	
				48 V DC			0,500	712 100 008	
				220 V DC			0,100	712 100 013	
HPT-R	Signal horn with telephone call current relay	continuous	108	230 V AC	50	+/- 10%	0,100	712 102 113	
				12 V AC	50		2,000	713 100 104	
				24 V AC	50		1,200	713 100 105	
				48 V AC	50		0,500	713 100 108	
				230 V AC	50		0,100	713 100 113	
HTG	Signal horn	continuous	108	120 V AC	60	+/- 10%	0,200	713 100 211	
				12 V DC			1,000	713 100 004	
				24 V DC			0,600	713 100 005	
				48 V DC			0,500	713 100 008	
				220 V DC			0,100	713 100 013	
				230 V AC	50		0,100	713 150 113	
HTG-L	Signal horn	continuous	108	120 V AC	60	+/- 10%	0,200	713 150 211	
	with RILSAN coating			24 V DC			0,600	713 150 005	
HTG-R	Signal horn with telephone call current relay	continuous	108	230 V AC	50	+/- 10%	0,100	713 102 113	

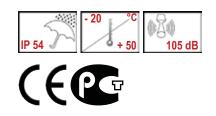
Also available in voltages: 6, 110 V DC; 6, 12, 42, 60 V AC; 110 V AC 50 Hz, 240 V AC 60 Hz NOTE:

# **Bells UWS - FWS**



### **Features**

- ▶ Loud bells with typical bell tone for universal applications
- Very robust, high quality design
- Steel bell dome, epoxy powder coated
- Housing aluminium die-cast, epoxy powder coated
- Special models with telephone call current relay
- Wide voltage range

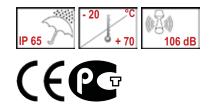


# **Electronic Multitone Sirens ES1 - ES2**

# ES1 - ES2

## **Features**

- Cost effective electronic siren with 32 tones
- Second stage tone
- Tone and volume selectable by DIP switch
- Low nominal current
- Easy mounting due to bayonet system







		Tone o	ptions					Orde	r No.	
Туре	Denomination	Tone types	Max. sound press. (dB)	Nominal voltage (V)	Hz	Voltage range (V)	Nominal current (A)	Housing grey	Housing red	Price
				12 V AC	50-60		0,800	720 000 304	720 200 304	
	Signal bell	continuous		24 V AC		60 +/- 10%	0,400	720 000 305	720 200 305	
				48 V AC			0,200	720 000 308	720 200 308	
UWS FWS			105	110 V AC			0,100	720 000 310	720 200 310	
				230 V AC			0,050	720 000 313	720 200 313	
				12 V DC			0,800	720 000 004	720 200 004	
				24 V DC			0,400	720 000 005	720 200 005	
UWS-R FWS-R	Signal bell with tele- phone call current relay	continuous	105	230 V AC	50-60	+/- 10%	0,050	720 010 313	720 220 313	

NOTE: Additional voltages available: 42, 60 V AC



Туре		Tone options					Naminal	Order No.		
	Denomination	Tone types	Max. sound press. (dB)	Nominal voltage (V)	Voltage range (V)		Nominal current (A)	Housing red	Housing white	Price
ES1	Multitone siren	32	106*	24 V DC		15-35	0,009-0,036	C110 620 005	C110 220 005	
ES2	Multitone siren	32	106*	110 - 230 V AC		+/- 10%	0,012	C115 600 113	C115 200 113	

NOTE: \* Adjustable via DIP switch Tone table: www.auer-signal.com

# Multi-Tone Alarm Sounders "A"

Size 1 Size 2 Size 3 Size 4

H = 94 mm

H = 132 mm

H = 184 mm

H = 228 mm



**ASS-P** 



108 dB

ASS-T

8 Tones 32 Tones



**ASM** 



32 Tones



**ASL** 



63 Tones



**ASX** 



63 Tones

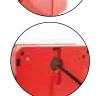
#### **Features**

- Comprehensive range of standard to high output alarm sounders in cubic design
- 3 tones externally switchable (ASS-T, ASM, ASL, ASX)
- For applications in the industry, process control, fire alarm, marine, etc.
- Versatile installation and mounting options
- Complete offering of sound-light combinations
- Tone table includes international and standardized signal tones for fire and gas alarm and other applications
- Optional/customized tones/tone tables possible upon request
- Automatic synchronization in multi-sounder installations
- Fit for plc applications (leakage, inrush current)

please refer to pages 67-69.

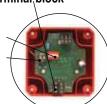
# **Accessories / Installation Options**

- Lateral cable entry on both sides with cable gland (accessory type AKV)
- Grommet from back side (included as standard)
- Metal bracket kit (accessory type AB1-AB4) for mounting of alarm sounders or beacons in specific direction, on mounting platforms, devices, etc.





- Electrical connection via detachable terminal block Tone table
  - Tone selection via DIP switch volume control by potentiometer (ASS-P, ASS-T, ASM, ASL, ASX)



Flat gaskets

for correct IP66 installation on smooth surfaces of housing (accessory type AG1-AG4)



# Mounting kit AMK

for mounting/combination of 2 or more same size sounders or beacons









Туре	Denomination	Max. sound pressure (dB A)	Nominal voltage (V)	Voltage range (V)	Nominal current (A)	Order No. Housing red	Price
			24 V AC/DC		0,100	874 060 405	
ASS-P	Multi-tone alarm sounder	103**	48 V AC/DC	+/- 10%	0,075	874 060 408	
A00-1	size 1, 8 tones	100	110/120 V AC	17 1070	0,040	874 060 310	
			230/240 V AC		0,040	874 060 313	
			24 V AC/DC		0,120	874 160 405	
ASS-T	Multi-tone alarm sounder	108**	48 V AC/DC	+/- 10%	0,090	874 160 408	
A00-1	size 1, 32 tones	100	110/120 V AC	+/- 10 //	0,042	874 160 310	
			230/240 V AC		0,022	874 160 313	
		113**	24 V AC/DC	+/- 10%	0,120	874 260 405	
ASM	Multi-tone alarm sounder		48 V AC/DC		0,090	874 260 408	
AOW	size 2, 32 tones	110	110/120 V AC		0,042	874 260 310	
			230/240 V AC		0,022	874 260 313	
	A4 10 4		24-48 V AC/DC		1,050	874 360 408	
ASL	Multi-tone alarm sounder size 3, 63 tones	120**	110/120 V AC	+/- 10%	0,170	874 360 310	
	3126 3, 03 101163		230/240 V AC		0,085	874 360 313	
	A4 10 4		24-48 V AC/DC		2,000	874 460 408	
ASX	Multi-tone alarm sounder size 4, 63 tones	127	110/120 V AC	+/- 10%	0,350	874 460 310	
	3126 4, 00 101163		230/240 V AC		0,170	874 460 313	

# Accessories

Туре	Denomination	Order No.	Price
AMK	Mounting kit for combinations of multi tone alarm sounders "A" and/or beacons "Q"	874 010 900	
AG1	Flat gasket for size 1 multi tone alarm sounders "A" and/or beacons "Q"	874 021 900	
AG2	Flat gasket for size 2 multi tone alarm sounders "A" and/or beacons "Q"	874 022 900	
AG3	Flat gasket for size 3 multi tone alarm sounders "A" and/or beacons "Q"	874 023 900	
AG4	Flat gasket for size 4 multi tone alarm sounders "A" and/or beacons "Q"	874 024 900	
AB1	Metal bracket kit for size 1 multi tone alarm sounders "A" and/or beacons "Q"	874 031 900	
AB2	Metal bracket kit for size 2 multi tone alarm sounders "A" and/or beacons "Q"	874 032 900	
AB3	Metal bracket kit for size 3 multi tone alarm sounders "A" and/or beacons "Q"	874 033 900	
AB4	Metal bracket kit for size 4 multi tone alarm sounders "A" and/or beacons "Q"	874 034 900	
AKV	Cable gland M20x1,5 for multi tone alarm sounders "A" and/or beacons "Q"	698 800 026	

<sup>\*\*</sup> Adjustable by potentiometer

# Overview Multi-Tone Alarm Sounders "A" / Beacons "Q"

Size	Multi-Tone Alarm Sounders "A"	Multi-Tone Alarm Sounders "A" - Beacon "Q"	Multi-Tone Alarm Sounder "A" with Light Indicator	Beacons "Q" with Buzzer Indicator	Beacons "Q"
1	ASS-P ~103 dB ASS-T ~108 dB	ASS-P + QDS LED Steady/Flashing ASS-P + QFS ~5 J Xenon Strobe  ASS-T + QDS LED Steady/Flashing ASS-T + QFS ~5 J Xenon Strobe	ADS-P LED Steady  ADS-T LED Steady/Flashing	QSS LED Steady/Flashing  QTS ~5 J Xenon Strobe	QDS LED Steady/Flashing  QFS ~5 J Xenon Strobe
2	<b>ASM</b> ~113 dB	ASM + QDM LED Steady/Flashing  ASM + QFM ~10 J Xenon Strobe	ADM LED Steady/Flashing  ACM LED Strobe	QSM LED Steady/Flashing QTM ~10 J Xenon Strobe	QDM LED Steady/Flashing QFM ~10 J Xenon Strobe
3	<b>ASL</b> ~120 dB	ASL + QDL LED Steady/Flashing  ASL + QBL LED Multi Strobe	ADL LED Steady/Flashing  ACL LED Strobe	QSL LED Steady/Flashing QCL LED Multi Strobe	QDL LED Steady/Flashing  QBL LED Multi Strobe
4	ASX ~127 dB	ASX + QDX LED Steady/Flashing  ASX + QBX LED Multi Strobe	ADX LED Steady/Flashing  ACX LED Strobe	QSX LED Steady/Flashing QCX LED Multi Strobe	QDX LED Steady/Flashing QBX LED Multi Strobe



			Tone table ASS-P			
STAGE 1 S1	Tone type	Frequency Hz	Pictogram	Repeat rate	Specific application	Max dB
Tone 01	continuous	4600 Hz	<u> </u>			103
Tone 02	continuous	1600 Hz				99
Tone 03	intermittent	4600 Hz		250 ms on, 250 ms off		103
Tone 04	intermittent	1600 Hz		250 ms on, 250 ms off		99
Tone 05	sweeping	1200 - 500 Hz	7	1 Hz	evacuation Germany DIN 33404-3	96
Tone 06	sweeping	500 - 1200 Hz		rising in 3 s, 0,5 s off	Netherlands NEN 2575:2000	98
Tone 07	alternating	800 - 1000 Hz		2 Hz		94
Tone 08	sweeping	500 - 1500 Hz		10 Hz		94

# LED steady light-----

			Tone table AD	S-P			
STAGE 1 S1	Tone type	Frequency Hz	Pictogram	Repeat rate	Specific application	Max dB	Ö
Tone 01	continuous	4600 Hz				103	
Tone 02	continuous	1600 Hz				99	_
Tone 03	intermittent	4600 Hz	— — —	250 ms on, 250 ms off		103	_
Tone 04	intermittent	1600 Hz		250 ms on, 250 ms off		99	_
Tone 05	sweeping	1200 - 500 Hz	7	1 Hz	evacuation Germany DIN 33404-3	96	
Tone 06	sweeping	500 - 1200 Hz		rising in 3 s, 0,5 s off	Netherlands NEN 2575:2000	98	_
Tone 07	alternating	800 - 1000 Hz		2 Hz		94	
Tone 08	sweeping	500 - 1500 Hz		10 Hz		94	

Tone table											
	Tone table					ASS-T	ASM	ASL	ASX		
STAGE 1	Tone type	Frequency Hz	Pictogram	Repeat rate	Specific application	max dB	max dB	max dB	max dB*	STAGE 2 S2	STAGE 3
Tone 01	continuous	660 Hz			Swedish alarm	101	108	114	116	tone 16	tone 12
Tone 02	continuous	1000 Hz			PFEER toxic gas	103	109	113	117	tone 16	tone 25
Tone 03	continuous	2400 Hz			1 1 <u>2 2 1 1 1 2 2 1 1 2 2 2 2 2 2 2 2 2</u>	108	113	120	124	tone 21	tone 17
Tone 04	intermittent	420 Hz		0,625 s on / 0,625 s off	Australian alert AS1670	101	105	109	114	tone 21	tone 01
Tone 05	intermittent	660 Hz		1,8 s on - 1,8 s off	Swedish alarm	102	107	114	120	tone 21	tone 01
Tone 06	intermittent	660 Hz		0,15 s on / 0,15 s off	Swedish alarm	102	107	114	116	tone 16	tone 01
Tone 07	intermittent	970 Hz		1 s on, 1 sec off	PFEER Alarm, BS5839-1:2002	101	109	113	118	tone 18	tone 01
Tone 08	intermittent	970 Hz (950)		0,5 s on/0,5 s off x 3 then 1,5 s off	ISO 8201 low tone, US Temporal	101	109	113	120	tone 16	tone 03
Tone 09	intermittent	800 Hz		0,25 s on / 1 s off	0 " 1 1 00 00 1744	102	107	112	120	tone 27	tone 03
Tone 10	intermittent	700 Hz		0,15 s on / 0,15 s off, total 1 min.	Swedish alarm SS 031711	103	107 108	112 111	118 119	tone 18	tone 02
Tone 11 Tone 12	intermittent	720 Hz 2400 Hz		0,7 s on / 0,3 s off 0,5 s on / 0,5 s off	Industrial Alarm Germany	103 108	113	120	127	tone 02 tone 03	tone 29
Tone 13	intermittent	2850 Hz		0,5 s on/0,5 s off x 3 then 1,5 s off	ISO 8201 high tone, US Temporal	100	110	111	120	tone 03	tone 17
Tone 14	alternating	440 - 554 Hz		0,4 s (440Hz) / 0,1 s (554Hz)	AFNOR France, NFS 32-001	103	106	109	116	tone 16	tone 01
Tone 15	alternating	554 - 440 Hz		1 Hz	Swedish alarm	103	106	109	116	tone 01	tone 16
Tone 16	alternating	800 - 1000 Hz		2 Hz		103	109	113	120	tone 02	tone 09
Tone 17	alternating	2400 - 2900 Hz		2 Hz		108	113	120	125	tone 03	tone 01
Tone 18	alternating	1000 - 2000 Hz		1 Hz	Singapore	105	110	120	126	tone 02	tone 03
Tone 19	sweeping	500 - 1500 Hz	$\sim\sim$	10 Hz		102	109	119	121	tone 02	tone 01
Tone 20	sweeping	150 - 1000 Hz	/	rising 10 s, 40 s on, falling 10 s	Industrial Alarm Germany	103	109	114	116	tone 01	tone 29
Tone 21	continuous	400 Hz		simulated horn		99	104	109	112	tone 16	tone 02
Tone 22	sweeping	500 - 1200 Hz 500 - 1200 Hz		rising in 3,75 s/ 0,25 off	Australian evacuation AS 2220  Netherlands NEN 2575:2000	106	109	117	120	tone 02	tone 09
Tone 23 Tone 24	sweeping sweeping	500 - 1200 Hz	1111	rising in 3,5 s/ 0,5 s off 0,5 s on/0,5 s off x 3 / 1,5 s off	Australian AS1670 evacuation	106 105	109	117 117	121 120	tone 02 tone 02	tone 09
Tone 25	sweeping	1200 - 500 Hz		1 Hz	Evacuation GerminyDIN 33404-3	103	109	117	122	tone 02	tone 32
Tone 26	sweeping	500 - 1200 Hz		0,3 Hz	Evacuation Committy Birt Co 10 1 C	106	109	117	122	tone 01	tone 32
Tone 27	sweeping	1400 - 1600 Hz	W	rising in 1 s/falling in 0,5 s	NFC 48-265	101	111	119	124	tone 02	tone 09
Tone 28	sweeping	2400 - 2900 Hz		1 Hz		108	113	120	123	tone 17	tone 03
Tone 29	bell					105	109	120	122	tone 16	tone 02
Tone 30	slow rise	500 - 2400 Hz		siren rising in 3 s, then cont. 2400 Hz		108	113	120	126	tone16	tone 01
Tone 31	slow rise	300 - 1200 Hz		siren rising in 3 s, then cont. 1200 Hz		103	110	117	113	tone 16	tone 01
Tone 32	chime	970 - 800 Hz		repeating ding-dong, 1 Hz		102	109	113	119	tone 29	tone 01
Tone 33	continuous	340 Hz				X	X	109	112	tone 16	tone 03
Tone 34 Tone 35	continuous	500 Hz 825 Hz				X	X	109 113	112 119	tone 16	tone 03
Tone 36	continuous	1500 Hz				X	X	118	120	tone 18	tone 02
Tone 37	continuous	2850 Hz				X	X	111	116	tone 21	tone 01
Tone 38	intermittent	660 Hz		0,5 s on - 0,5 s off	Swedish alarm	X	X	114	117	tone 02	tone 32
Tone 39	intermittent	680 Hz		0,875 s on-0,675 s off		Х	Х	114	117	tone 03	tone 32
Tone 40	intermittent	950 Hz		1 s on, 1 s off		Х	Х	114	120	tone 02	tone 32
Tone 41	intermittent	1000 Hz		1 s on-1 s off	PFEER general alarm	Х	Х	113	120	tone 16	tone 03
Tone 42	intermittent	800 Hz		4 ms on, 4 ms off		Х	Х	112	116	tone 58	tone 03
Tone 43	intermittent	825 Hz		0,5 s on, 0,5 s off		X	X	113	121	tone 16	tone 03
Tone 44	intermittent	825 Hz		2,5 s on, 2,5 s off x 7, then 7 s pulse	IMO SOLAS III/50+SOLAS III/6,4	X	X	113	120	tone 17	tone 02
Tone 45	alternating	440 - 554 Hz		1 Hz		X	X	109	115	tone 16	tone 01
Tone 46 Tone 47	alternating alternating	825 - 1075 Hz 825 - 1025 Hz		1 Hz 2 Hz		X	X	114 114	121 121	tone 48	tone 02
Tone 48	alternating	2500 - 3100 Hz		0,5 Hz		X	X	117	121	tone 60	tone 03
Tone 49	alternating	2400 - 2850 Hz		2 Hz		X	X	120	124	tone 12	tone 03
Tone 50	alternating	500 - 900 Hz		2 Hz		X	X	114	118	tone 41	tone 02
Tone 51	alternating	1200 - 1400 Hz		25 Hz		Х	Х	119	122	tone 41	tone 02
Tone 52	sweeping	300 - 1200 Hz		1 Hz		Х	Х	117	121	tone 03	tone 32
	sweeping	500 - 1000 Hz	<b>/</b>	0,15 Hz		Х	Х	114	120	tone 41	tone 02
Tone 53	auraanina	500 - 1200 Hz	$\wedge \wedge \wedge$	3 Hz		Х	Х	117	121	tone 41	tone 02
Tone 54	sweeping	700 450011		0,3 Hz		X	X	119	122	tone 16	tone 02
Tone 54 Tone 55	sweeping	700 - 1500 Hz			I .	X	X	114	119	tone 16	tone 02
Tone 54 Tone 55 Tone 56	sweeping sweeping	800 - 1000 Hz		7 Hz							
Tone 54 Tone 55 Tone 56 Tone 57	sweeping sweeping sweeping	800 - 1000 Hz 800 - 1000 Hz		50 Hz		Х	X	114	90	tone 16	tone 02
Tone 54 Tone 55 Tone 56 Tone 57 Tone 58	sweeping sweeping sweeping sweeping	800 - 1000 Hz 800 - 1000 Hz 2400 - 2900 Hz		50 Hz 7 Hz		X	Х	120	123	tone 16 tone 17	tone 03
Tone 54 Tone 55 Tone 56 Tone 57 Tone 58 Tone 59	sweeping sweeping sweeping sweeping sweeping	800 - 1000 Hz 800 - 1000 Hz 2400 - 2900 Hz 2400 - 2900 Hz		50 Hz 7 Hz 50 Hz		X X X	X	120 120	123 90	tone 16 tone 17 tone 17	tone 03
Tone 54 Tone 55 Tone 56 Tone 57 Tone 58 Tone 59 Tone 60	sweeping sweeping sweeping sweeping sweeping sweeping	800 - 1000 Hz 800 - 1000 Hz 2400 - 2900 Hz 2400 - 2900 Hz 2400 - 2900 Hz		50 Hz 7 Hz 50 Hz 3 Hz		X X X	X X X	120 120 120	123 90 125	tone 16 tone 17 tone 17 tone 17	tone 03 tone 03 tone 03
Tone 54 Tone 55 Tone 56 Tone 57 Tone 58 Tone 59	sweeping sweeping sweeping sweeping sweeping	800 - 1000 Hz 800 - 1000 Hz 2400 - 2900 Hz 2400 - 2900 Hz		50 Hz 7 Hz 50 Hz		X X X	X	120 120	123 90	tone 16 tone 17 tone 17	tone 03

 $<sup>\</sup>ensuremath{^{\star}}$  Specifications are provisional and subject to change.



LED steady lightLED flashing light

LED flashing light												
				Tone tak	ole							
						AD	S-T	ADM ACM	ADL ACL	ADX ACX		
STAGE 1 S1	Tone type	Frequency Hz	Pictogram	Repeat rate	Specific application	max dB	-jó:	max dB	max dB	max dB*	STAGE 2 S2	STAGE 3
Tone 01	continuous	660 Hz			Swedish alarm	101	_	108	114	116	tone 16	tone 12
Tone 02	continuous	1000 Hz			PFEER toxic gas	103	_	109	113	117	tone 16	tone 25
Tone 03	continuous	2400 Hz		0.005 / 0.005#	Australian alert AS1670	<b>108</b>	_	113	120	124	tone 21	tone 17
Tone 04 Tone 05	intermittent	420 Hz 660 Hz		0,625 s on / 0,625 s off 1,8 s on - 1,8 s off	Swedish alarm			105 107	109 114	114 120	tone 21	tone 01
Tone 06	intermittent	660 Hz		0,15 s on / 0,15 s off	Swedish alarm	102		107	114	116	tone 16	tone 01
Tone 07	intermittent	970 Hz		1 s on, 1 s off	PFEER Alarm, BS5839-1:2002	101		109	113	118	tone 18	tone 01
Tone 08	intermittent	970 Hz (950)		0,5 s on/0,5 s off x 3 then 1,5 s off	ISO 8201 low tone, US Temporal	101		109	113	120	tone 16	tone 03
Tone 09	intermittent	800 Hz		0,25 s on / 1 s off		102		107	112	120	tone 27	tone 03
Tone 10	intermittent	700 Hz		0,15 s on / 0,15 s off, total 1 min.	Swedish alarm SS 031711	103		107	112	118	tone 18	tone 02
Tone 11	intermittent	720 Hz		0,7 s on / 0,3 s off	Industrial Alarm Germany	103		108	111	119	tone 02	tone 29
Tone 12	intermittent	2400 Hz		0,5 s on / 0,5 s off		108		113	120	127	tone 03	tone 01
Tone 13	intermittent	2850 Hz		0,5 s on/0,5 s off x 3 then 1,5 s off	ISO 8201 high tone, US Temporal	100		110	111	120	tone 03	tone 17
Tone 14	alternating	440 - 554 Hz		0,4 s (440Hz) / 0,1 s (554Hz)	AFNOR France, NFS 32-001	103	_	106	109	116	tone 16	tone 01
Tone 15	alternating	554 - 440 Hz		1 Hz	Swedish alarm	103	_	106	109	116	tone 01	tone 16
Tone 16	alternating	800 - 1000 Hz		2 Hz		103	_	109	113	120	tone 02	tone 09
Tone 17	alternating	2400 - 2900 Hz		2 Hz	0:	108	_	113	120	125	tone 03	tone 01
Tone 18	alternating	1000 - 2000 Hz		1 Hz	Singapore	105	_	110	120	126	tone 02	tone 03
Tone 19 Tone 20	sweeping sweeping	500 - 1500 Hz 150 - 1000 Hz	/ / / /	10 Hz rising 10 s, 40 s on, falling 10 s	Industrial Alarm Germany	102	_	109 109	119 114	121 116	tone 02 tone 01	tone 01
Tone 21	continuous	400 Hz	/	simulated horn	industrial Alarm Germany	99		103	109	112	tone 16	tone 02
Tone 22	sweeping	500 - 1200 Hz	77	rising in 3,75 s/ 0,25 off	Australian evacuation AS 2220	106		109	117	120	tone 02	tone 09
Tone 23	sweeping	500 - 1200 Hz		rising in 3,5 s/ 0,5 s off	Netherlands NEN 2575:2000	106	_	109	117	121	tone 02	tone 09
Tone 24	sweeping	500 - 1200 Hz	111	0,5 s on/0,5 s off x 3 / 1,5 s off	Australian AS1670 evacuation	105	_	109	117	120	tone 02	tone 09
Tone 25	sweeping	1200 - 500 Hz	777	1 Hz	Evacuation GerminyDIN 33404-3	106	_	109	117	122	tone 02	tone 32
Tone 26	sweeping	500 - 1200 Hz	$\wedge \wedge \wedge$	0,3 Hz	,	106	_	109	117	122	tone 01	tone 32
Tone 27	sweeping	1400 - 1600 Hz	M	rising in 1 s/falling in 0,5 s	NFC 48-265	101	—	111	119	124	tone 02	tone 09
Tone 28	sweeping	2400 - 2900 Hz		1 Hz		108		113	120	123	tone 17	tone 03
Tone 29	bell					105	_	109	120	122	tone 16	tone 02
Tone 30	slow rise	500 - 2400 Hz		siren rising in 3 s, then cont. 2400 Hz		108	_	113	120	126	tone16	tone 01
Tone 31	slow rise	300 - 1200 Hz		siren rising in 3 s, then cont. 1200 Hz		103	_	110	117	113	tone 16	tone 01
Tone 32	chime	970 - 800 Hz		repeating ding-dong, 1 Hz		102		109	113	119	tone 29	tone 01
Tone 33	continuous	340 Hz				X	X	X	109	112	tone 16	tone 03
Tone 34	continuous	500 Hz				X	X	X	109	112 119	tone 16	tone 03
Tone 35 Tone 36	continuous	825 Hz 1500 Hz				X	X	X	113 118	120	tone 16 tone 18	tone 03
Tone 37	continuous	2850 Hz				X	X	X	111	116	tone 21	tone 01
Tone 38	intermittent	660 Hz		0,5 s on - 0,5 s off	Swedish alarm	Х	X	Х	114	117	tone 02	tone 32
Tone 39	intermittent	680 Hz		0,875 s on-0,675 s off		Х	Х	Х	114	117	tone 03	tone 32
Tone 40	intermittent	950 Hz		1 s on, 1 s off		Х	Х	Х	114	120	tone 02	tone 32
Tone 41	intermittent	1000 Hz		1 s on, 1 s off	PFEER general alarm	Х	Х	Х	113	120	tone 16	tone 03
Tone 42	intermittent	800 Hz		4 ms on, 4 ms off		Х	Х	Х	112	116	tone 58	tone 03
Tone 43	intermittent	825 Hz		0,5 s on, 0,5 s off		Х	Х	Х	113	121	tone 16	tone 03
Tone 44	intermittent	825 Hz		2,5 s on, 2,5 s off x 7, then 7 s pulse	IMO SOLAS III/50+SOLAS III/6,4	X	X	X	113	120	tone 17	tone 02
Tone 45	alternating	440 - 554 Hz		1 Hz		X	X	X	109	115	tone 16	tone 01
Tone 46	alternating	825 - 1075 Hz		1 Hz		X	X	X	114	121	tone 48	tone 02
Tone 48	alternating alternating	825 - 1025 Hz 2500 - 3100 Hz		2 Hz 0,5 Hz		X	X	X	114 117	121 121	tone 48	tone 03
Tone 48 Tone 49	alternating	2400 - 3100 Hz		0,5 Hz 2 Hz		X	X	X	120	121	tone 60 tone 12	tone 03
Tone 50	alternating	500 - 900 Hz		2 Hz		X	X	X	114	118	tone 41	tone 02
Tone 51	alternating	1200 - 1400 Hz		25 Hz		X	X	X	119	122	tone 41	tone 02
Tone 52	sweeping	300 - 1200 Hz		1 Hz		X	X	X	117	121	tone 03	tone 32
Tone 53	sweeping	500 - 1000 Hz		0,15 Hz		Х	Х	Х	114	120	tone 41	tone 02
Tone 54	sweeping	500 - 1200 Hz		3 Hz		Х	Х	Х	117	121	tone 41	tone 02
Tone 55	sweeping	700 - 1500 Hz		0,3 Hz		Х	Х	Х	119	122	tone 16	tone 02
Tone 56	sweeping	800 - 1000 Hz	$\wedge \wedge \wedge$	7 Hz		Х	Х	Х	114	119	tone 16	tone 02
Tone 57	sweeping	800 - 1000 Hz	<b>MMMM</b>	50 Hz		Х	Х	Х	114	90	tone 16	tone 02
Tone 58	sweeping	2400 - 2900 Hz		7 Hz		Х	X	Х	120	123	tone 17	tone 03
Tone 59	sweeping	2400 - 2900 Hz		50 Hz		X	X	X	120	90	tone 17	tone 03
Tone 60	sweeping	2400 - 2900 Hz		3 Hz		X	X	X	120	125	tone 17	tone 03
Tone 61	slow rise	0 - 800 Hz		siren rising 3 s, then cont 800 Hz		X	X	X	114	118	tone 16	tone 01
Tone 62	chime	554 - 440 Hz 554 - 440 Hz		repeating ding-dong, 1 Hz		X	X	X	109	116	tone 29	tone 01
Tone 63	chime	004 - 440 HZ		single ding-dong	l			٨	109	116	tone 29	tone 01

 $<sup>\</sup>ensuremath{^{\star}}$  Specifications are provisional and subject to change.

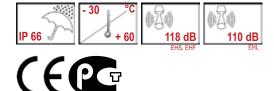
## **Electronic Sounder EHS - EHF - EHL**

### **EHS - EHF - EHL**



### **Features**

- Loud electronic sounders up to 118 dB
- Robust, high-quality design
- Housing aluminium die-cast, epoxy powder-coated
- 15 different tone types, additionally individual adjustment of lower/upper frequencies and speed by potentiometer
- Tone selection by DIP switch (Type D) - 1 of 15 tone types pre-selectable Terminal (Type K) - all 15 tone types externally addressable
- Models: EHS swiveling loudspeaker, EHF- fixed loudspeaker, EHL - short loudspeaker
- Special models with volume control, extreme low temperatures, special sound tables, etc. available



# **Audible Signalling Sounder AS4**

# AS4



- Audible signalling sounder for high weatherproof applications - IP 66
- For universal applications in industries, outdoor, etc.
- 4 tones/tone sequences selectable by DIP switch
- Aluminium-die cast housing













		Tone	options					Orde	r No.	
Туре	Denomination	Tone types	Max. sound press. (dB)	Nominal voltage (V)		Voltage range (V)	Nominal current (A)	Type D	Туре К	Price
				12-24 V AC/DC			0,470-0,940	731 010 405	Price	
EHS	Electronic sounder with swiveling loudspeaker			110/120 V AC			0,120	731 010 310	731 020 310	
	g		118	230/240 V AC			0,060	731 010 313	731 020 310 10 313 731 020 313 10 405 731 120 405	
			110	12-24 V AC/DC			0,470-0,940	731 110 405		
EHF	Electronic sounder with fixed loudspeaker	15		110/120 V AC		+/- 10%	0,120	731 110 310		
				230/240 V AC			0,060	731 110 313	731 120 313	
				12-24 V AC/DC			0,470-0,940	730 010 405	730 020 405	
EHL	Electronic sounder with short loudspeaker		110	110/120 V AC			0,120	730 010 310	730 020 310	
	short loudspeaker			230/240 V AC			0,060	730 010 313	730 020 313	

NOTE: Tone table: www.auer-signal.com



_		Tor	ne options	Nominal	Voltage	Nominal	Order No.	
Туре	Denomination	Tone types	Max. sound pressure (dB)	voltage (V)	range (V)	current (A)	Housing black	Price
AS4	Signalling sounder	4	90	110-230 V AC	94-253 V AC	0,016	410 400 004	

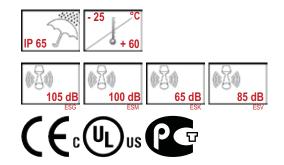
## M22 Panel Mount Buzzer ESG - ESM - ESK - ESV

### **ESG - ESM - ESK - ESV**



### **Features**

- Loud universally useable panel mount buzzers
- 3 well distinguishable tones selectable via terminal (ESG)
- Volume infinitely adjustable also in panel mount condition (ESG-ESM)
- Wide voltage range
- ▶ Plc fit (leakage, inrush current)
- For mounting in 22,5 mm oder 30,5 mm bore holes (with adapter)



## M28 Panel Mount Buzzer ESD - ESP - ESZ

ESD - ESP - ESZ



- Panel mount buzzers with wide voltage range
- For universal applications
- Models with spades or terminal
- Sealed electronics
- Low nominal current
- ▶ For mounting in M28 bore holes







T	Denomination	Тог	ne options	Nominal Voltage Nominal Order No.		r No.	Duine		
Type	Denomination	Tone types	Max. sound pressure (dB)	voltage (V)	range (V)	current (A)	Housing grey	Housing black	Price
				12-24 V AC/DC	8-24	0,057	814 100 405	814 500 405	
ESG	M22 panel mount buzzer	3	85-105**	110/120 V AC	50-140	0,042	814 100 310	Price  Housing black  814 500 405  814 500 310  814 500 313  813 500 405  813 500 310  813 500 310  812 500 405  812 500 310  812 500 310  812 500 310  812 500 310  812 500 310  812 500 310	
				230/240 V AC	150-260	0,044	Housing grey  814 100 405  814 100 310  814 100 313  813 100 405  813 100 310  813 100 405  812 100 405  812 100 310  812 100 313  812 100 313  812 110 405	814 500 313	
				12-24 V AC/DC	-24 V AC/DC 8-24 0,019 813 100 4	813 100 405	813 500 405		
ESM	M22 panel mount buzzer	2	85-100**	110/120 V AC	50-140	0,042	813 100 310	813 500 310	
				230/240 V AC	150-260	0,040	813 100 313	813 500 313	
				12-24 V AC/DC	10-24	0,046	812 100 405	812 500 405	
ESK	M22 panel mount buzzer	2	65	110/120 V AC	50-140	0,017	812 100 310	Housing black  814 500 405  814 500 310  814 500 313  813 500 405  813 500 310  812 500 405  812 500 310  812 500 313  812 510 310  812 510 310	
				230/240 V AC	150-260	0,020	812 100 313	812 500 313	
				812 110 405	812 510 405				
ESV	M22 panel mount buzzer	2		110/120 V AC	50-140	0,017	812 110 310	812 510 310	
				230/240 V AC	150-260	0,020	812 110 313	812 510 313	

<sup>\*\*</sup> Adjustable by potentiometer

## Accessories

Туре	Denomination	Order No.	Price
	Adapter M30,5	812 500 900	
	Fastening tool for 30 mm models	812 400 900	



_	<b>.</b>	Ton	e options	Nominal	Voltage	Nominal	Order No.		
Type	Denomination	Tone types	Max. sound pressure (dB)	voltage (V)	range (V)	current (A)	Housing grey	Housing black	Price
ESD	M28 panel mount buzzer	continuous	90	24 V AC/DC	4-40	0,020	810 000 405	810 100 405	
ESD	WZO panel mount buzzel	Continuous	90	230/240 V AC	30-250	0,020	810 000 313	810 100 313	
ESP	M28 panel mount buzzer	pulsing	90	24 V AC/DC	4-40	0,020	811 000 405	811 100 405	
ESF		pulsing	30	230/240 V AC	30-250	0,020	811 000 313	811 100 313	
				24 V AC/DC	6-28		809 000 405	809 100 405	
ESZ-S	M28 panel mount buzzer		90	110/120 V AC	20-140	0,020	809 000 310	Housing black  810 100 405  810 100 313  811 100 405  811 100 313	
		continuous		230/240 V AC	50-250		809 000 313	809 100 313	
		and pulsing		24 V AC/DC	6-28		809 010 405	809 110 405	
ESZ-K	M28 panel mount buzzer		90	110/120 V AC	20-140	0,020	809 010 310	809 110 310	
	r			230/240 V AC	50-250		809 010 313	809 110 313	

NOTE: Additional voltages possible upon request

## M28 Panel Mount Buzzer BU2 - BU3

### **BU2 - BU3**



### **Features**

- Panel mount buzzers with wide voltage range
- For universal applications
- Very attractive price-performance ratio
- Pulsing tone
- Sound pressure can be infinitely adjusted by turning window (approx. 10 dB reduction)











## **Surface Mount Buzzer-Electronic Siren BU1**

### BU1



### **Features**

- Very loud surface mount buzzer-electronic siren with high protection class
- Attractive price-performance ratio
- Metal housing bracket
- Prewired with 2,25 m wires









## Motor Sirens SE1 - SE2 - SE3

**SE1 - SE2 - SE3** 



- ▶ Typical and penetrating siren tone with 360° audibility
- Optional protection hood for outdoor applications
- Air inlet and sound outlet protected against accidental touching

















		Tor	ne options	Nominal	Voltage	Nominal	Order No.	
Туре	Denomination	Tone types	Max. sound pressure (dB)	voltage (V)	range (V)	current (A)	Housing black B100 520 404 B100 520 405	Price
BU2	M28 panel mount buzzer			12 V AC/DC	6-16	0,020	B100 520 404	Price 0 520 404 0 520 405
BUZ	wizo parier mount buzzer	pulsing	90***	24 V AC/DC	12-28	0,030	B100 520 405	
BU3	M28 panel mount buzzer			220 V AC	180-240	0,020	B100 520 313	

<sup>\*\*\*</sup> Adjustable by turning window



		Tor	e options	Nominal	Voltage	Nominal	Order No.	
Туре	Denomination	Tone types	Max. sound pressure (dB)	voltage (V)	range (V)	current (A)	Housing black	Price
BU1	Surface mount buzzer -	nulaina	108	12 V DC	6-15	0,300	B100 510 004	
БОТ	electronic siren	pulsing	100	24 V DC	12-28	0,300	B100 510 005	

# Order data

		Max. sound	Nominal	Voltage	Nominal	Starting	Order No.	
Туре	Denomination	pressure (dB)	voltage (V)	range (V)	current (A)	current (A)	Housing dark grey	Price
SE1	Motor siren	112	230 V AC/DC	+/- 10%	0,600	2,400	593 004 413	
SE2	E2 Motor siren	110	24 V AC/DC	+/- 10%	7,200	25,000	593 005 405	
JEZ	MOTOL SHELL	110	230 V AC/DC	.7 1070	0,720	2,500	593 006 413	
SE3	Motor siren	110	230 V AC/DC	+/- 10%	1,430	4,600	593 009 413	
	Protection hood SE1, SE2						594 001 000	
	Protection hood SE3						594 003 000	

NOTE: Additional voltages available: SE1, SE2: 12 V AC/DC

# **Explosion-Proof Telephone dST**

dST

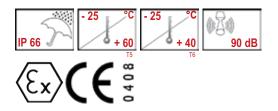




II 2 G Ex emb [ib] IIC T5/T6 II 2 D tD A21 IP66 T100 °C/T80 °C -25 °C ≤ Ta ≤ +60 °C/+40 °C Zone 1, 2, 21, 22

### **Features**

- Explosion-proof telephone for universal applications in the industry, onshore and offshore
- Certified for gas and dust explosion endangered areas on zones 1, 2, 21 and 22
- Resistant against high temperature differences, humidity, seawater, acids, alkalis, etc.
- Very robust impact protected telephone housing (impact protection IK 09)
- Freely programmable, well readable alphanumerical display
- Designed for use with gloves, V4A stainless steel keypad -21 keys
- Model without keypad available as emergency telephone
- Comprehensive range of accessories available



# **Explosion-Proof Audible Telephone Call Signalling Sounder AS1**

AS1





II 2 G Ex e ib mb IIC T6 **Zone 1, 2** 

- Explosion-proof telephone call sounder for applications in industrial explosion endangered areas
- Tone types and tone frequencies selectable via DIP switch
- Power supply via telephone call voltage
- Works independently also during power failures
- Aluminium-die cast housing















Туре	Denomination	Order No.	Price
dST1	ExSafeTel - explosion-proof telephone	410 010 000	
dST2	ExSafeTel - explosion-proof emergency telephone without keypad and display	410 020 000	

# Order data

		Tone	options		
Туре	Denomination	Tone types	Max. sound pressure (dB)	Order No.	Price
AS1	Explosion-proof audible telephone call signalling sounder	4	90	410 100 004	

# **Explosion-Proof Visual-Audible Telephone Call Signalling Sounder VS1**

VS1

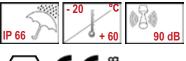




II 2 G Ex e mb [ib] IIC T6/T5/T4 Gb -20°C ≤ Ta ≤ +40 °C/+50 °C/+60 °C Zone 1. 2

### **Features**

- Explosion-proof visual-audible telephone call signalling sounder for universal applications in industrial explosion endangered areas
- For distinct signalling of incoming telephone calls in loud ambient conditions
- 3 tones and 4 frequencies/settings selectable
- Lens colours amber, red, clear, blue, green
- 230 V AC power supply
- Aluminium-die cast housing







# **Explosion-Proof Loudspeaker LS1**

LS1





II 2 G EEx ib IIC T5/T6
II 2 D Ex ibD 21 T100 °C/T80 °C
-25 °C ≤ Ta ≤ +60 °C/+40 °C
Zone 1, 2, 21, 22

- Explosion-proof loudspeaker enables loud rendition of ringer sound and of receiving signal in operating modes "open listening" and "handsfree"
- Volume adjustable with +/- keys on the ExSafeTel
- Set contents: dynamic loudspeaker in plastic housing with cable gland, cable gland is located in connection chamber for connection of loudspeaker cable to ExSafeTel













			Tone	e options	Nominal	Voltage		
Туре	Denomination	Light source	Tone types	Max. sound pressure (dB)	voltage (V)	range (V)	Order No.	Price
VS1	Explosion-proof visual-audible telephone call signalling sounder	2 x 1 J xenon tube	3	90	230 V AC	+/- 10%	410 10 <b>C</b> 005	



Туре	Denomination	Order No.	Price
LS1	Explosion-proof loudspeaker	410 100 003	

# **Explosion-Proof Additional Earpiece EP1**





### **Features**

- Intrinsically safe additional earpiece enables a second person to follow a telephone conversation
- Can also be used to reduce ambient noise during a telephone conversation
- Set contents: ex-proof earpiece with dynamic receiver and coil cord cable gland bracket and screws to hang up earpiece







# Headset Kit HS1 for Explosion-Proof Telephone dST

## HS<sub>1</sub>



### **Features**

- Ex-proof headset eases significantly a telephone conversation in loud ambient conditions
- Protects against ambient noise
- Allows telephone calls while both hands need to be free
- Set contents: ex-proof headset 14 m long connecting cord cable gland

bracket and screws to hang up connecting cord and headset









Туре	Denomination	Order No.	Price
EP1	Explosion-proof additional earpiece set	410 100 002	



Туре	Denomination	Order No.	Price
HS1	Headset kit for explosion-proof telephone dST	410 100 001	

## Weatherproof Telephone wST



### **Features**

- Weatherproof telephone for industrial areas in rugged ambient conditions
- Resistant against high temperature differences, humidity, seawater, acids, alkalis, greases, etc.
- Very robust impact protected telephone housing (impact protection IK 09)
- Freely programmable, well readable alphanumerical display
- Designed for use with gloves, V4A stainless steel keypad -21 keys
- Model without keypad available as emergency telephone
- Steel armoured handset cord to withstand high tensile forces
- Comprehensive range of accessories available









# **Audible Telephone Call Signalling Sounder AS2**

### AS2



- Weatherproof telephone call sounder for universal applications in extreme industrial or other ambient conditions
- Resistant against rain, humidity, heat, cold, acids, alkalis, greases, etc.
- 4 tones and tone frequencies selectable via DIP switch
- Power supply via telephone call voltage
- Works independently also during power failures
- Aluminium-die cast housing













Туре	Denomination	Order No.	Price
wST1	SafeTel - weatherproof telephone	410 110 000	
wST2	SafeTel - weatherproof emergency telephone without keypad and display	410 120 000	



			Tone options		
Туре	Denomination	Tone types	Max. sound pressure (dB)	Order No.	Price
AS2	Audible telephone call signalling sounder	4	90	410 200 004	

# Visual-Audible Telephone Call Signalling Sounder VS2

### VS2



### **Features**

- Weatherproof visual-audible telephone call signalling sounder for universal applications in industrial areas
- For distinct signalling of incoming telephone calls in loud ambient conditions
- 4 tones and tone frequencies/settings selectable via DIP switch
- Lens colours amber, red, clear, blue, green
- Aluminium-die cast housing











# Loudspeaker Set LS2

### LS2



- Loudspeaker enables loud rendition of ringer sound and of receiving signal in operating modes "open listening" and "handsfree"
- ▶ Volume adjustable with +/- keys on the SafeTel
- Set contents: dynamic loudspeaker in plastic housing with cable gland, cable gland is located in connection chamber for connection of loudspeaker cable to SafeTel













			Ton	e options	Naminal			
Туре	Denomination	Light source	Tone types	Max. sound pressure (dB)	Nomimal voltage (V)	Voltage range (V)	Order No.	Price
VS2	Visual-audible telephone call signalling sounder	3 J xenon tube	4	95**	230 V AC	+/- 10%	410 20 <b>C</b> 005	

<sup>\*\*</sup> Adjustable by potentiometer



Туре	Denomination	Order No.	Price
LS2	Loudspeaker set	410 200 003	

# **Additional Earpiece EP2**



### **Features**

- Additional earpiece enables a second person to follow a telephone conversation
- Can also be used to reduce ambient noise during a telephone conversation
- Set contents: earpiece with dynamic receiver and coil cord cable gland
- Bracket and screws to hang up earpiece



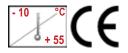




## **Headset Kit HS2**



- Headset eases significantly a telephone conversation in loud ambient conditions
- Protects against ambient noise
- Allows telephone calls while both hands need to be free
- Set contents: headset, 14 m long connecting cord cable gland
- Bracket and screws to hang up connecting cord and headset







Туре	Denomination	Order No.	Price
EP2	Additional earpiece set	410 200 002	

# Order data

1	Гуре	Denomination	Order No.	Price
ŀ	HS2	Headset kit	410 200 001	

# Explosion-Proof Telephone dFT3 FernTel3 - Zone 2, 22

dFT3



FernTel 3



### **Features**

- Analogue telephone for use in explosion endangered atmospheres of zone 2 and 22
- For use in areas in which explosion endangered atmospheres can develop due to manufacturing reasons
- Housing made of polycarbonate
- Housing colours yellow, red, grey, black
- Can be used as desk or wall telephone
- Models with and without display









# Weatherproof Telephone wFT3 FernTel3

wFT3



- Analogue telephone for use in non-ex indoor and outdoor areas
- Well suitable for universal applications and areas with high humidity, seawater climates or areas with higher mechanical stress
- Housing made of polycarbonate
- Housing colours yellow, red, grey, black
- Can be used as desk and wall telephone
- Models with and without display













Туре	Denomination	Order No.	Price
	FernTel 3 zone 2 and 22 explosion-proof telephone with display and spiral cord	410 400 <b>C</b> 00	
	FernTel 3 zone 2 and 22 explosion-proof telephone without display, with spiral cord	410 410 <b>C</b> 00	
dFT3	FernTel 3 zone 2 and 22 explosion-proof telephone with display and armoured cord	410 420 <b>C</b> 00	
	FernTel 3 zone 2 and 22 explosion-proof telephone without display, with armoured cord	410 430 <b>C</b> 00	
	Stabilizer bracket	410 400 900	

# Order data

Туре	Denomination	Order No.	Price
	FernTel3 weatherproof telephone with display and spiral cord	410 300 <b>C</b> 00	
wFT3	FernTel3 weatherproof telephone without display, with spiral cord	410 310 <b>C</b> 00	
WF13	FernTel3 weatherproof telephone with display and armoured cord	410 320 <b>C</b> 00	
	FernTel3 weatherproof telephone without display, with armoured cord	410 330 <b>C</b> 00	
wFT3Z	FernTel3 weatherproof telephone without keypad and display, with armoured cord	410 340 <b>C</b> 00	
	Stabilizer bracket	410 400 900	

Color	Colour code for telephones							
0	black	2	black/red					
1	black/yellow	3	black/grey					

# Weatherproof Telephone wIND "INDUSTRY"

### wIND



### **Features**

- Well designed weatherproof telephone for industrial and general applications
- For out- and indoor use with tough operating demands (e.g. sea water, high humidity, dust, strong mech. stress, etc.)
- Housing made of impact resistant polycarbonate
- Protection door in yellow or transparent protects against pollutions, etc.
- Eye-catching signal colour yellow easy recognition of telephone
- Connection possibility with secondary signalling sounder
- Models with visual call indicator (LED)
- High degree of protection IP 66









# **Telephone pretection hoods TH1**

### TH1



- Telephone protection hoods for better audibility of telephone conversations in noisy environments
- Available materials
  - GRP (glass reinforced plastic)
  - synthetic (PVC)
  - metal (sheet steel ST37-2 powder coated) or stainless steel 1.4571 (inside 1.4301)
- ▶ Inner lining perforated plate metal ST37-2
- Excellent sound absorption up to 25 dB (A) in 1 m
- Various housing colours
- Console for floor mounting of telephone hoods available as option





Туре	Denomination	Order No.	Price
	Weatherproof telephone INDUSTRY yellow, with protection door, yellow	410 700 100	
wIND1	Weatherproof telephone INDUSTRY yellow, with protection door, transparent	410 700 110	
WINDI	Weatherproof telephone INDUSTRY yellow, without keypad, with protection door, yellow	410 710 100	
	Weatherproof telephone INDUSTRY yellow, without keypad, with protection door, transparent	410 710 110	
	Models with visual call indicator (LED)		
wIND2	Weatherproof telephone INDUSTRY yellow, with protection door, transparent and with visual call indicator (LED)	410 700 200	



Туре	Denomination	Weight	Order No.	Price
	Telephone protection hoods - GRP			
TH1	Telephone protection hood yellow (~ RAL 1023)	~ 40 kg	410 100 008	
1111	Telephone protection hood orange (~ RAL 2000)	~ 40 kg	410 100 007	
	Telephone protection hoods - synthetic (PVC)			
	Telephone protextion hood yellow (~ RAL 1023)	~ 30 kg	410 100 012	
TH1	Telephone protection hood orange (~ RAL 2000)	~ 30 kg	410 100 013	
	Telephone protection hood red (~ RAL 3020)	~ 30 kg	410 100 014	
	Telephone protection hoods - metal			
	Telephone protection hood type yellow (~ RAL 1023)	~ 35 kg	410 100 006	
TH1	Telephone protection hood type red (~ RAL 3020)	~ 35 kg	410 100 009	
	Telephone protection hood type stainless steel	~ 40 kg	410 100 010	
TH1C	Console, sheet steel, fits all hood types, yellow (~ RAL 1023)	~ 17 kg	410 100 011	

# **Ex-proof Signal horn mHPT**

### **mHPT**





II 2 G Ex e mb II T5 -20 °C  $\leq$  Ta  $\leq$  +50 °C (AC-Mod.) -20 °C  $\leq$  Ta  $\leq$  +60 °C (DC-Mod.) **Zone 1. 2** 

### **Features**

- Loud, well designed signal horn
- For use in gas explosion endangered areas of zone 1, 2
- Housing made of impact resistant synthetics
- Available in popular voltages
- Insulation class II
- DC models with electronic contact breaker
- Encapsulation











# Ex-proof Signal horn dHH - dHHR

### dHH - dHHR





II 2 G Ex de IIC T5/T6 II 2 D Ex tD A21 IP66 T95 °C/T80 °C -20 °C ≤ Ta ≤ +75 °C/+70 °C Zone 1, 2, 21, 22

- Loud signal horns with typical tone
- For use in explosion endangered areas of zone 1 and 2
- Synthetic housings made of glassfibre reinforced polyester
- Flameproof chamber "d" terminal connection chamber in protection class increased safety "e"
- Wide voltage range
- Reduced weight robust and corrosion proof design
- Models with telephone call current relay available















Туре	Denomination	Nominal voltage (V)	Nominal current (A)	Order No.	Price
	Design temperature range T5				
	Ex-proof signal horn	24 V DC	0,300	301 100 005	
mHPT		115 V AC	0,150	301 100 110	
		230 V AC	0,070	301 100 113	



	Denomination	Tone opt	tions	Nominal				Order No.	
Туре		Tone types	Max. sound press. (dB)	voltage (V)	Hz	Voltage range (V)	Nominal current (A)	Housing grey/black	Price
				24 V AC	50		0,650	300 000 105	
				48 V AC	50		0,350	300 000 108	
	Ex-proof signal horn	continuous	105	230 V AC	50	+10%/-15%	0,070	300 000 113	
dHH				120 V AC	60		0,150	300 000 211	
ипп				240 V AC	60		0,070	300 000 213	
				24 V DC			0,300	300 000 005	
				48 V DC			0,170	300 000 008	
				220 V DC			0,050	300 000 013	
dHHR	Ex-proof signal horn with telephone call current relay	continuous	105	230 V AC	50	+10%/-15%	0,070	300 100 113	

NOTE: MHH also available in voltages: 6, 12, 42, 60, 110 V AC, 50 Hz and 6, 12, 110 V DC

# Ex-proof Signal Bell dHW - dHWR

### dHW - dHWR





### **Features**

- Loud signal with typical tones
- For use in explosion endangered areas of zone 1 and 2
- Synthetic housings made of glassfibre reinforced polyester
- Flameproof chamber "d" terminal connection chamber in protection class increased safety "e"
- Wide voltage range
- Reduced weight robust and corrosion proof design
- Models with telephone call current relay available











# **Ex-proof Loudspeaker dHS**

### dHS





II 2 G Ex d e mb IIC T4/T5/T6 Gb II 2 D Ex tb IIIC T130 °C/T95 °C/T80 °C Db T4 -55 °C  $\leq$  Ta  $\leq$  +80 °C T5 -55 °C  $\leq$  Ta  $\leq$  +65 °C T6 -55 °C  $\leq$  Ta  $\leq$  +55 °C Zone 1, 2, 21, 22

- Ex-proof loudspeaker for emergency communication and for warning, calling, indicating in explosion-proof endangered areas of zone 1 and 2
- Power up to 25 W at sound pressure levels up to 119 dB (A)
- Built-in 100 V transformer for connection to 100 V loudspeaker systems
- Antistatic, UV-resistant synthetic housing
- Flameproof chamber "d"
- Terminal connection chamber in protection class increased safety "e"
- Insulation class II no equipotential bonding required
- Excellent sound quality











		Tone op	tions					Order No.	
Туре	Denomination	Tone types	Max. sound press. (dB)	Nominal voltage (V)	Hz	Voltage range (V)	Nominal current (A)	Housing grey/black	Price
				24 V AC	50		0,320	320 000 105	
	Ex-proof signal bell			48 V AC	50		0,300	320 000 108	
		continu- ous	105	230 V AC	50	+10% / -15%	0,055	320 000 113	
dHW				120 V AC	60		0,180	320 000 211	
ипуу				240 V AC	60		0,065	320 000 213	
				24 V DC			0,350	320 000 005	
				48 V DC			0,300	320 000 008	
				220 V DC			0,070	320 000 013	
dHWR	Ex-proof signal bell with telephone call current relay	continu- ous	105	230 V AC	50	+10% / -15%	0,055	320 100 113	

**NOTE:** D dHW also available in voltages: 6, 12, 42, 60, 110 V AC, 50 Hz und 6, 12, 110 V DC



Tuno	Denomination	Power (W)	Temperature range	Order No.	
Type	Denomination	Power (W)	remperature range	Housing black	Price
dHS	Ex-proof loudspeaker	25	-55°C — +80° C	360 000 000	

# **Ex-proof Electronic Sounder dHE**

### dHE





### **Features**

- Loud electronic sounder for use in explosion endangered areas of zone 1 and 2
- 31 different signal tones resp. signal tone groups, 1 programmable tone group
- 8 volume settings
- Synchronization of tones
- Flame proof chamber "d" connection chamber in protection class increased safety "e", encapsulation "m"
- Reduced weight robust and corrosion proof design
- Insulation class II no equipotential bonding required



# **Ex-proof Audible Signalling Sounder AS3**

### AS3





- Explosion-proof signalling sounder for universal applications in explosion endangered areas in the industry
- Tone types and tone frequencies selectable via DIP switch
- Power supply 110-230 V AC
- Aluminium-die cast housing













		Tone o	ptions			Order No.	
Туре	Denomination	Tone types		Nominal current (A)	Housing grey/black	Price	
dHE1	dHE1 Ex-proof electronic sounder dHE2	31	119*	85-265 V AC, 50-60 Hz	0,100 (230 V AC)	370 000 000	
dHE2				21,6-75 V DC	0,520 (24 V DC)	370 000 001	

<sup>\*</sup> Adjustable by rotary switch



Туре	Denomination	Nominal voltage (V)	Tone of	ptions	Order No.	
			Tone types	Max. sound press. (dB)		Price
AS3	Ex-proof audible signalling sounder	110-230 V AC, 50-60 Hz	4	90	410 300 004	

# **Ex-proof Strobe Beacon dHF**

dHF





### **Features**

- Visual signal device with powerful xenon tube for use in explosion endangered areas of zones 1 and 2
- Models with 5 J or 15 J strobe energy
- ▶ Flameproof chamber "d" terminal connection chamber in protection class increased safety "e"
- Synthetic housing, low weight, robust and corrosion proof design
- ▶ 4 lens colours: amber, red, blue, green
- Insulation class II no equipotential bonding required



## **Ex-proof Strobe Beacon dSF**

dSF





- Visual signal device with powerful xenon tube for use in explosion endangered areas of zones 1 and 2
- Models with 5 J or 15 J strobe energy
- ▶ Flameproof chamber "d" terminal connection chamber in protection class increased safety "e"
- Sturdy aluminium housing, coated or powder coated
- Hardened glass lens
- All models with protection cage made of stainless steel
- ▶ 5 lens colours: amber, red, clear, blue, green
- Compact dimensions can also be built in













Туре	Denomination	Strobe	Nominal	Voltage	Nominal	Order No.	Price
туре	Denomination	energy (J)	voltage (V)	range (V)	current (A)	Housing grey/black	11100
dHF1		15	230/240 V AC 50-60 Hz	207-253	0,200	340 00 <b>C</b> 413	
		5	110/120 V AC 50-60 Hz	103-127	0,135	340 10 <b>C</b> 410	
	Ex-proof strobe beacon	5	230/240 V AC 50-60 Hz	207-253	0,130	340 10C 413	
ALLO		15	24 V DC	21-53	1,000	340 00 <b>C</b> 005	
dHF2		5	24 V DC	21-53	0,280	340 10 <b>C</b> 005	

NOTE: Also available in 80 V DC



Type Denomination	Donomination	Strobe		Voltage	Nominal	Order No.	Price
Type	Denomination	energy (J)		range (V)	current (A)	Housing yellow/blue	FIICE
dSF1	15	230/240 V AC 50-60 Hz	207-253	0,200	335 00 <b>C</b> 413		
		5	120/120 V AC 50-60 Hz	103-127	0,135	335 10 <b>C</b> 410	
	Ex-proof strobe beacon	5	230/240 V AC 50-60 Hz	207-253	0,130	335 10 <b>C</b> 413	
4050	dSF2	15	24 V DC	21-53	1,000	335 00 <b>C</b> 005	
dSF2		5	24 V DC	21-53	0,280	335 10 <b>C</b> 005	

NOTE: Also available in 80 V DC

# **Ex-proof LED Signal Beacon mDD**



### **Features**

- ▶ LED signal beacon for zones 1, 2, 21 and 22
- High protection class IP66
- Polycarbonate housing, mounting bracket V4A
- 4 different operating modes selectable:
  - LED steady beacon
  - LED flashing beacon
  - LED strobe beacon
  - LED rotating beacon
- Available in 5 LED colours: red, clear/white, blue, green, yellow







# Ex-proof LED Signal Beacon dSD

dSD



- Robust visual signal beacon with up-to-date LED technique
- High signalling effect, long lifetime
- 4 operating modes selectable:
  - LED steady light
  - LED flashing light
  - LED strobe light
  - LED rotating light
- Available in 5 LED colours: red, clear, blue, green, yellow
- Flameproof chamber "d" terminal connection chamber in protection class increased safety "e"











Туре	Denomination	Nominal voltage (V)	Voltage range (V)	Order No.	Price
mDD1	Ex-proof LED signal beacon	230 V AC	+/- 20%	336 00 <b>C</b> 413	
mDD2	Ex-proof LED signal beacon	24 V DC	T/- ZU%	336 00 <b>C</b> 005	

Tuna	Operating mode	Nominal	Nominal current (A)					
Туре	Operating mode	voltage (V)	red	clear	blue	green	yellow	
	LED steady light		0,047	0,055	0,055	0,055	0,047	
	LED flashing light	230 V AC	0,040	0,044	0,044	0,044	0,040	
mDD1	LED strobe light	230 V AC	0,037	0,040	0,040	0,040	0,037	
	LED rotating light		0,035	0,037	0,037	0,037	0,035	
	LED steady light		0,480	0,720	0,700	0,680	0,500	
	LED flashing light	24 V DC	0,460	0,690	0,680	0,660	0,480	
mDD2	LED strobe light	24 V DC	0,850	1,280	1,250	1,200	0,900	
	LED rotating light		0,240	0,320	0,310	0,310	0,240	



				Nominal current (A)						Order No. Housing yellow/blue  335 21C 313	
Туре	Denomination	Nominal voltage (V)	Voltage range (V)	Operating mode	red	clear	blue	green	yellow	•	Price
dSD1	Ex-proof LED signal beacon with protection cage red, yellow	110 - 240	85 - 265 V AC	steady light flashing light	0,125 0,125	0,170 0,170	0,170 0,170	0,160 0,160	0,125 0,125	335 21 <b>C</b> 313	
uəDi	Ex-proof LED signal beacon with protection cage clear, blue, green	VAC	65 - 265 V AC	strobe light rotating 1 rotating 2	1,800 0,060 0,070	1,230 0,070 0,085	1,230 0,070 0,085	1,210 0,065 0,080	1,800 0,060 0,070	335 21 <b>C</b> 313	
dSD2	Ex-proof LED signal beacon with protection cage red, yellow	24 V DC	./ 20%	steady light flashing light	0,550 0,550	0,870 0,870	0,850 0,850	0,800 0,800	0,570 0,570	335 21 <b>C</b> 005	
asD2	Ex-proof LED signal beacon with protection cage clear, blue, green	24 V DC	+/- 20%	strobe light rotating 1 rotating 2	1,200 0,190 0,250	1,600 0,280 0,380	1,500 0,250 0,350	1,500 0,250 0,350	1,200 0,190 0,250	335 21 <b>C</b> 005	

# **Ex-proof Rotating Signal Beacon dHR**

### dHR





II 2 G Ex de IIC T5/T6 -20 °C ≤ Ta ≤ +75 °C/+40 °C Zone 1, 2

### **Features**

- Visual rotating signalling device with powerful 20 W halogen bulb and triple lens system for use in explosion endangered areas of zones 1 and 2
- Wear resistant friction gear
- Flameproof chamber "d" terminal connection chamber in protection class increased safety "e"
- ▶ 4 lens colours: amber, red, blue, green
- Insulation class II no equipotential bonding required
- Synthetic housing, low weight, robust and corrosion proof design







# Ex-proof Steady Beacon dHL

### dHL





- Ex-proof steady beacon with 15 W energy saving bulb for use in explosion endangered areas of zones 1 and 2
- ▶ Flameproof chamber "d" terminal connection chamber in protection class increased safety "e"
- Energy saving bulb in 5 colours: amber, red, white, blue, green
- Insulation class II no equipotential bonding required











Type Denomination	Nominal	Voltage	Nominal	Order No.	Price	
Type	Denomination	voltage (V)	range (V)	current (A)	Housing grey/black	Price
		24 V AC/DC		0,900	350 00 <b>C</b> 405	
dHR1	Ex-proof rotating signal beacon	110/120 V AC 50-60 Hz	+/- 10%	0,200	350 00 <b>C</b> 410	
		230/240 V AC 50-60 Hz		0,100	350 00 <b>C</b> 413	

NOTE: Also available in 12 V DC



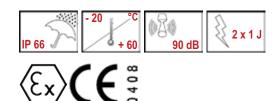
	Type	Denomination	Nominal	Voltage	Nominal	Order No.	Price	
١	Туре	Denomination	voltage (V)	range (V)	current (A)	Housing grey/black	FIICE	ı
	dHL1	Ex-proof steady beacon	230/240 V AC 50-60 Hz	+/- 10%	0,150	310 00 <b>C</b> 413		

NOTE: Additional voltages available

# **Ex-proof Visual-Audible Signalling Sounder VS1**



- Explosion-proof visual-audible signalling sounder for universal applications in industrial explosion endangered areas
- 3 tones and 4 frequencies/settings selectable
- Lens colours amber, red, clear, blue, green
- 230 V AC power supply
- Aluminium-die cast housing







		Light	1	Tone options	Nominal	Voltage			
Type	Denomination	source	Tone types	Max. sound pressure (dB)	voltage (V)	range (V)	Order No.	Price	
VS1	Ex-proof visual-audible signalling sounder	2 x 1 J xenon tube	3	90	230 V AC	+/- 10%	410 10 <b>C</b> 005		



LED Bulbs - steady light LLL LED Bulbs - flashing light LLB Bulbs - GL, Halogen Bulbs - HL, Xenon Tubes - XT

## LLL, LLB





### **Features**

- Complete offering of high performance though price attractive LED bulbs with up-to-date LED technology
- Absolutely shock and vibration proof, maintenance-free
- Very long lifetime up to approx. 100.000 hours
- Models for steady and flashing light
- ▶ Plc fit (leakage, inrush current)



## Bulbs, Halogen Bulbs, Xenon Tubes







GL

HL

ΧT





Туре	Denomination	Nominal voltage (V)	Voltage range (V)	Nominal current (A)	Order No.	Price
		24 V AC/DC		0,029	893 00 <b>C</b> 405	
LLL	LED steady light bulb	48 V AC/DC	+/- 10%	0,019	893 00 <b>C</b> 408	
LLL	amber, red, yellow	110/120 V AC	T/- 10 / <sub>0</sub>	0,021	893 00 <b>C</b> 310	
		230/240 V AC		0,021	893 00 <b>C</b> 313	
		24 V AC/DC		0,029	893 00 <b>C</b> 405	
LLL	LED steady light bulb	48 V AC/DC	+/- 10%	0,019	893 00C 408	
LLL	clear, blue, green	110/120 V AC	T/- 10 /6	0,020	893 00 <b>C</b> 310	
		230/240 V AC		0,021	893 00C 313	
		24 V AC/DC		0,043	893 01 <b>C</b> 405	
LLB	LED flashing light bulb	48 V AC/DC	+/- 10%	0,026	893 01C 408	
LLB	amber, red, yellow	110/120 V AC	<del>+</del> /- 10 %	0,021	893 01C 310	
		230/240 V AC		0,021	893 01 <b>C</b> 313	
		24 V AC/DC		0,043	893 01C 405	
LLB	LED flashing light bulb	48 V AC/DC	+/- 10%	0,026	893 01C 408	
LLB	clear, blue, green	110/120 V AC	<del>+</del> /- 10%	0,021	893 01 <b>C</b> 310	
		230/240 V AC		0,021	893 01 <b>C</b> 313	

NOTE: Also available in 12 V AC/DC

Туре	Denomination	Nominal voltage (V)	Order No. Pri
GL01	Incandescent bulb BA15d, 5 W	12 V	890 010 904
GL02	Incandescent bulb BA15d, 6,5 W	24 V	890 010 905
GL03	Incandescent bulb BA15d, 5 W	48 V	890 010 908
GL04	Incandescent bulb BA15d, 7 W	60 V	890 010 909
GL05		110/120 V	890 010 910
GL06	Incandescent bulb BA15d, 6 W	230/240 V	890 010 913
GL11		12 V	890 012 904
GL12		24 V	890 012 905
GL13	Incandescent bulb BA15d, 4 W	48 V	890 012 908
GL14	incandescent build BA13u, 4 W	60 V	890 012 909
GL15		110/120 V	890 012 910
GL16		230/240 V	890 012 913
GL21		12 V	890 025 904
GL22		24 V	890 025 905
GL23	Incordescent bulls DA45d, Q5 W	48 V	890 025 908
GL24	Incandescent bulb BA15d, 25 W	60 V	890 025 909
GL25		110/120 V	890 025 910
GL26		230/240 V	890 025 913
HL51		12 V	890 050 904
HL52	Helenen hulb. FO W.	24 V	890 050 905
HL55	Halogen bulb, 50 W	110/120 V	890 050 910
HL56		230/240 V	890 050 913
HL31		12 V	890 035 904
HL32	Helenen halls 25 W	24 V	890 035 905
HL35	Halogen bulb, 35 W	110/120 V	890 035 910
HL36		230/240 V	890 035 913
HL21		12 V	890 020 904
HL22	Halaman hadh 00 W	24 V	890 020 905
HL25	Halogen bulb, 20 W	110/120 V	890 020 910
HL26		230/240 V	890 020 913
XT30	Xenon tube 30 J		890 130 900
XT15	Xenon tube 15 J		890 115 900
XT07	Xenon tube 7 J		890 107 900



Your Signalling Solution!

### **HEADQUARTERS**

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