

Product Overview 2011



Contents



Visual Signalling Equipment

Beacons „Q“	2-3
Modular Beacon Series „M“	4-5
Steady/Flashing/Strobe Beacon WLG - BKG - FLG	6-7
LED Steady/LED Flashing Beacon DLG - BLG	6-7
LED Light Bar ILL42	6-7
LED Steady/Flashing Beacon NES	8-9
LED Strobe/Double Strobe Beacon NFS	8-9
LED Multi Colour Beacon NMS	8-9
LED Strobe Beacon HIGH PERFORMANCE NFS-HP	10-11
LED Multi Colour Beacon HIGH PERFORMANCE NMS-HP	10-11
Strobe Beacons BZL - BZG	10-11
LED Flashing Beacon BC1	12-13
Strobe Beacon XB2	12-13
Steady (LED Steady/Flashing) Beacon WLK , Strobe Beacon FLK	14-15
M22 Panel Mount Beacons „I“	16-19
LED Steady/Flashing Beacons IBL - IBM - IBS	16-17
LED Strobe Beacons ICL - ICM - ISS	16-17
Xenon Strobe Beacons ISL - ISM	16-17
LED Multicolour Beacons IDL - IDM - IDS, ITL - ITM - ITS, IML - IMM	18-19



Signal Towers

Signal Tower moduSIGNAL70	20-21
Signal Tower moduSIGNAL50	22-23
Signal Tower moduCOMPACT70	24-25
Signal Tower moduCOMPACT30	26-27
Signal Tower halfDOME90	28-29



Visual-Audible Signalling Equipment

Combinations Multi Tone Alarm Sounder „A“ – Beacons „Q“	30-31
Multi Tone Alarm Sounders „A“ with Light Indicator	32-33
Beacons „Q“ with Buzzer Indicator	34-35
Mini Horn-Signal Beacon KLL - KDL	36-37
Mini Horn-Strobe Beacon KLF - KDF	36-37
Strobe Beacon-Signalling Sounder VS4	36-37
M22 Panel Mount Buzzer - LED Steady/Flashing Beacons ELG - EDG, ELM - EDM	38-39
LED Flashing Beacon-Electronic Multitone Siren CS1	38-39



Audible Signalling Equipment

Mini Horns KLH - KDH, HMK	40-41
Signal Horns HPT - HTG	40-41
Bells UWS - FWS	42-43
Electronic Multitone Sirens ES1 - ES2	42-43
Multi Tone Alarm Sounders „A“	44-45
Overview Multi Tone Alarm Sounders „A“ / Beacons „Q“	46-47

Electronic Sounder EHS - EHF - EHL	48-49
Electronic Sounder HTV	48-49
Audible Signalling Sounder AS4	48-49
M22 Panel Mount Buzzer ESG - ESM - ESK - ESV	50-51
M28 Panel Mount Buzzer ESD - ESP - ESZ	50-51
M28 Panel Mount Buzzer BU2 - BU3	52-53
Surface Mount Buzzer-Electronic Siren BU1	52-53
Motor Sirens SE1 - SE2 - SE3	52-53



Telephones and Accessories

Ex-Proof Telephone dST	54-55
Ex-Proof Audible Telephone Call Signalling Sounder AS1	54-55
Ex-Proof Visual-Audible Telephone Call Signalling Sounder VS1	56-57
Ex-Proof Loudspeaker LS1	56-57
Ex-Proof Additional Earpiece EP1	58-59
Ex-Proof Headset Kit HS1	58-59
Weatherproof Telephone wST	60-61
Audible Telephone Call Signalling Sounder AS2	60-61
Visual-Audible Telephone Call Signalling Sounder VS2	62-63
Loudspeaker Set LS2	62-63
Additional Earpiece EP2	64-65
Headset Kit HS2	64-65
Ex-Proof Telephone dFT3 FernTel3 - Zone 2, 22	66-67
Weatherproof Telephone wFT3 FernTel3	66-67
Weatherproof Telephone wIND „INDUSTRY“	68-69
Telephone Protection Hoods TH1	68-69



Ex-Proof Signalling Equipment

Ex-Proof Signal Horn mHPT	70-71
Ex-Proof Signal Horn dHH-dHHR	70-71
Ex-Proof Signal Bell dHW-dHWR	72-73
Ex-Proof Loudspeaker dHS	72-73
Ex-Proof Electronic Sounder dHE	74-75
Ex-Proof Audible Signalling Sounder AS3	74-75
Ex-Proof Strobe Beacon dHF	76-77
Ex-Proof Strobe Beacon dSF	76-77
Ex-Proof LED Signal Beacon mDD	78-79
Ex-Proof LED Signal Beacon dSD	78-79
Ex-Proof Rotating Signal Beacon dHR	80-81
Ex-Proof Steady Beacon dHL	80-81
Ex-Proof Audible Signalling Sounder VS1	82-83



Accessories

LED Bulbs – Steady Light LLL	82-83
LED Bulbs – Flashing Light LLB	82-83
Bulbs - GL , Halogen Bulbs - HL , Xenon Tubes - XT	82-83

New Products 2011



Beacons „Q“, Page 2



LED Strobe Beacon HIGH PERFORMANCE - NFS-HP, Page 10
 LED Multi Colour Beacon HIGH PERFORMANCE - NMS-HP, Page 10



LED Strobe Beacons ICL - ICM , Page 16
 LED Multicolour Beacons IML - IMM, Page 18



Combinations Multi Tone Alarm Sounder „A“ - Beacons „Q“, Page 30
 Multi Tone Alarm Sounders „A“ with Light Indicator, Page 32
 Beacons „Q“ with Buzzer Indicator, Page 34



Multi Tone Alarm Sounders „A“, Seite 44



Weatherproof Telephone WIND „INDUSTRY“, Telephone Protection Hoods TH1, Page 68



Ex-Proof Signal Horn mHPT, Page 70
 Ex-Proof LED Signal Beacon mDD, Seite 78

Colour code			
1	amber	5	blue
2	red	6	green
4	clear	7	yellow



Position letter code	
E	5 th position from base
D	4 th position from base
C	3 th position from base
B	2 nd position from base
A	1 st position from base
M	= Base mounted on modules

ACCESSORIES		
Type	Nominal Voltage (V)	Order No.
Bulb, BA15d, 7W		
GL01	12 V	890 010 904
GL02	24 V	890 010 905
GL03	48 V	890 010 908
GL04	60 V	890 010 909
GL05	110/120 V	890 010 910
GL06	230/240 V	890 010 913
Bulb, BA15d, 25 W		
GL21	12 V	890 025 904
GL22	24 V	890 025 905
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 00C 404
	24 V AC/DC	893 00C 405
	48 V AC/DC	893 00C 408
	110/120 V AC	893 00C 310
	230/240 V AC	893 00C 313
LLB - LED bulb, BA 15d, flashing light		
	12 V AC/DC	893 01C 404
	24 V AC/DC	893 01C 405
	48 V AC/DC	893 01C 408
	110/120 V AC	893 01C 310
	230/240 V AC	893 01C 313

Welcome!

Learn more about our comprehensive range of visual and audible signalling products (signal towers, stack lights, flashing beacons, strobe beacons, rotating mirror beacons, steady beacons, LED beacons, panel mount beacons, horns, sirens, sounders, buzzers etc.) and our explosion- and weatherproof telephones and accessories.

Our products combine state-of-the-art technology with high product quality, approvals for the world market and attractive, competitive pricing. The continuously growing success with customers in more than 50 countries world-wide confirms the soundness of our concisely followed strategy, to provide our customers with a broad range of standard signalling products but to also offer individual customised product solutions.

The continuous extension of our product offering as well as the continuously increasing demand for AUER products required the lasting expansion of our production and service capabilities, which we realised with the new AUER plant for production and administration in a modern industrial park in the southern part of Vienna. This represented three years before the 100 years anniversary of company AUER founded 1910 another milestone in the company history and is the base for a further future expansion.

We have still many ideas for market orientated new products in order to meet with our customers requirements and the spirit of our slogan

*Your Signalling
Solution!*

We look forward to a continued good co-operation with our customers and distribution partners and appreciate your contacting us.

More information: www.auer-signal.com



Beacons „Q“

LED Steady/Flashing Beacons „Q“
 Xenon Strobe Beacons „Q“
 LED Strobe Beacons „Q“

	Size 1	Size 2	Size 3	Size 4
	H = 94 mm	H = 132 mm	H = 183 mm	H = 228 mm
LED Steady/ Flashing Beacons	10 Cd	120 Cd	170 Cd	300 Cd
Xenon Strobe Beacons	-5 J	-10 J		
LED Strobe Beacons			250 Cd	400 Cd

Scheduled availability:
 Size 1 und Size 2 in June 2011
 Size 3 und Size 4 in September 2011

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 size 1-4
 - LED strobe beacons in size 3-4
 - most modern LED technique with high signalling effect
 - 3 strobe patterns (double and multi-strobe, externally switchable or
 - in conventional Xenon strobe technique (classic signalling with good signalling effect)
 - Xenon strobe beacons in size 1-2
- for applications in the industry, process control, fire/gas alarm, marine etc.
- by combining eg. 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:

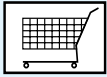
Combination of QDM – LED steady/flashing beacon (size 2), 230/240 V AC for red-amber-green.

type	order no.	product
QDM	874 262 313	LED steady/flashing beacon - size 2, red
QDM	874 261 313	LED steady/flashing beacon - size 2, amber
QDM	874 266 313	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 44.

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





Order data

Type	Denomination	Light Source	Nominal voltage (V)	Voltage range (V)	Nominal current (A)	Order No. Housing red	Price
QDS	LED steady/flashing beacon size 1	LED 10 Cd	24 V AC/DC	+/- 10%	0,110	874 16C 405	
			48 V AC/DC		0,070	874 16C 408	
			230/240 V AC		0,065	874 16C 313	
QDM	LED steady/flashing beacon size 2	LED 120 Cd	24-48 V AC/DC	16-60 V DC	max. 0,350	874 26C 408	
			110-240 V AC/DC	16-53 V AC	max. 0,055	874 26C 413	
QDL	LED steady/flashing beacon size 3	LED 170 Cd	24-48 V AC/DC	18-60 V DC	max. 0,700	874 36C 408	
			110-240 V AC/DC	18-53 V AC	max. 0,250	874 36C 413	
QDX	LED steady/flashing beacon size 4	LED 300 Cd	24-48 V AC/DC	18-60 V DC	ma. 1,400	874 46C 408	
			110-240 V AC/DC	18-53 V AC	max. 0,500	874 46C 413	

QFS	Xenon strobe beacon size 1	Xenon tube 5 J	24-48 V AC/DC	16-53 V AC/DC	0,320	874 56C 408	
			230/240 V AC	+/- 10%	0,085	874 56C 313	
QFM	Xenon strobe beacon size 2	Xenon tube 10 J	24-48 V AC/DC	16-53 V AC/DC	0,600	874 66C 408	
			230/240 V AC	+/- 10%	0,170	874 66C 313	
QBL	LED strobe beacon size 3	LED 250 Cd	24-48 V AC/DC	18-60 V DC	max. 1,000	874 76C 408	
			110-240 V AC/DC	18-53 V AC	max. 0,400	874 76C 413	
QBX	LED strobe beacon size 4	LED 400 Cd	24-48 V AC/DC	18-60 V DC	max. 2,000	874 86C 408	
			110-240 V AC/DC	18-53 V AC	max. 0,750	874 86C 413	

Accessories

Type	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	



Modular Beacon Series "M"

- Steady Beacon
- Flashing Beacon
- Strobe Beacon
- Rotating Mirror Beacon

MLL - MBL - MFL - MRL



Ø 160 mm

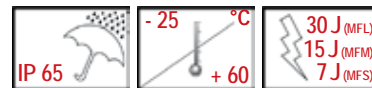
Features

- 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
- safety screw for 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

MLM - MBM - MFM - MRM



Ø 120 mm

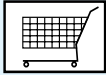


MLS - MBS - MFS - MRS



Ø 90 mm





Order data

160 mm

Type	Denomination	Light Source	Nominal Voltage (V)	Voltage Range (V)	Nominal Current (A)	Order No.	Price
						Horizontal base + Housing black	
MLL	Steady beacon	50 W halogene bulb (included)	24 V AC/DC	+/- 10%	2,1	819 10C 405	
			230/240 V AC		0,21	819 10C 313	
MBL	Flashing beacon		24 V AC/DC	+/- 10%	2,1	839 10C 405	
			230/240 V AC		0,21	839 10C 313	
MFL	Strobe beacon	30 J Xenon tube (included)	24 V AC/DC	+/- 10%	1,9	849 10C 405	
			230/240 V AC		0,35	849 10C 313	
MRL	Rotating mirror beacon		24 V AC/DC	+/- 10%	2,3	419 10C 405	
			230/240 V AC		0,39	419 10C 313	

Accessories

Type	Denomination				Order No.	Price
	Bracket				819 200 900	
	Magnetic mount				819 203 900	
	Cable gland M20x1,5				698 800 026	

120 mm

MLM	Steady beacon	35 W halogene bulb (included)	24 V AC/DC	+/- 10%	1,5	818 10C 405	
			230/240 V AC		0,15	818 10C 313	
MBM	Flashing beacon		24 V AC/DC	+/- 10%	1,5	838 10C 405	
			230/240 V AC		0,15	838 10C 313	
MFM	Strobe beacon	15 J Xenon tube (included)	12 - 24 V AC/DC	+/- 10%	0,8 (24 V)	848 10C 405	
			230/240 V AC		0,15	848 10C 313	
MRM	Rotating mirror beacon		24 V AC/DC	+/- 10%	1,7	418 10C 405	
			230/240 V AC		0,17	418 10C 313	

Accessories

Type	Denomination				Order No.	Price
	Bracket				818 200 900	
	Magnetic mount				818 203 900	
	Cable gland M20x1,5				698 800 026	

90 mm

MLS	Steady beacon	20 W halogene bulb (included)	24 V AC/DC	+/- 10%	1,5	817 10C 405	
			230/240 V AC		0,15	817 10C 313	
MBS	Flashing beacon		24 V AC/DC	+/- 10%	1,5	837 10C 405	
			230/240 V AC		0,15	837 10C 313	
MFS	Strobe beacon	7 J Xenon tube (included)	12 - 24 V AC/DC	+/- 10%	0,8 (24 V)	847 10C 405	
			230/240 V AC		0,15	847 10C 313	
MRS	Rotating mirror beacon		24 V AC/DC	+/- 10%	1,7	417 10C 405	
			230/240 V AC		0,17	417 10C 313	

Accessories

Type	Denomination				Order No.	Price
	Bracket				817 200 900	
	Magnetic mount				817 203 900	
	Cable gland M20x1,5				698 800 026	

NOTE: ► pole mount bases and additional voltages available



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

WLG - BKG - FLG

DLG - BLG



Ø 120 mm

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

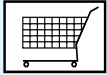
ILL42



Features

- LED illumination with excellent light output
- for universal applications (eg. work places, cabins 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





Order data

Type	Denomination	Light Source	Nominal Voltage (V)	Voltage Range (V)	Nominal Current (A)	Order No.		Price
						Housing grey	Housing black	
WLG	Steady beacon	25 W bulb GL21 - 26	up to 250 V AC/DC	+/- 10%		822 10C 900	822 50C 900	
BKG	Flashing beacon		12-48 V AC/DC	+/- 10%		832 10C 408	832 50C 408	
			230/240 V AC			832 10C 313	832 50C 313	
FLG	Strobe beacon	5J Xenon tube (included)	24 V AC/DC	+/- 10%	0,32	842 14C 405	842 54C 405	
			230/240 V AC		0,1	842 13C 313	842 53C 313	
DLG	LED steady beacon amber, red, yellow	LED	24 V AC/DC	17-32 V DC 17-26 V AC	0,11	827 10C 405	827 50C 405	
			230/240 V AC		0,6	827 10C 313	827 50C 313	
	LED steady beacon clear, blue, green		24 V AC/DC	17-32 V DC 17-26 V AC	0,11	827 10C 405	827 50C 405	
			230/240 V AC		0,06	827 10C 313	827 50C 313	
BLG	LED flashing beacon amber, red, yellow		24 V AC/DC	17-32 V DC 17-26 V AC	0,11	807 10C 405	807 50C 405	
			230/240 V AC		0,06	807 10C 313	807 50C 313	
	LED flashing beacon clear, blue, green		24 V AC/DC	17-32 V DC 17-26 V AC	0,11	807 10C 405	807 50C 405	
			230/240 V AC		0,06	807 10C 313	807 50C 313	

NOTE: ▶ additional voltages available ▶ bulbs have to be ordered separately

Accessories

Type	Denomination					Order No.	Price
	Bracket					822 200 900	



Order data

Type	Denomination	Light Source	Nominal Voltage (V)	Voltage Range (V)	Nominal Current (A)	Order No.	Price
ILL42	LED steady light bar without on/off switch IP 44	LED	24-48 V AC/DC	17-63 V DC 17-53 V AC	<0,32	805 100 405	
			110-240 V AC/DC	90-320 V DC 90-250 V AC	<0,07	805 100 413	
ILL42	LED steady light bar with on/off switch IP 40		24-48 V AC/DC	17-63 V DC 17-53 V AC	<0,32	805 110 405	
			110-240 V AC/DC	90-320 V DC 90-250 V AC	<0,07	805 110 413	



LED Steady/Flashing Beacon NES
LED Strobe/Double Strobe Beacon NFS
LED Multi Colour Beacon NMS

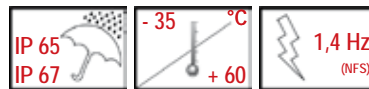
NES - NFS



Ø 90 mm

Features

- ▶ 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 3mA possible



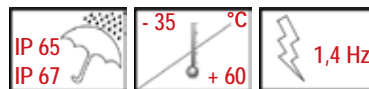
NMS

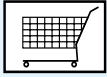


Ø 90 mm

Features

- ▶ 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





Order data

Type	Denomination	Light Source	Nominal Voltage (V)	Voltage Range (V)	Nominal Current (A)	Order No.	Price
						Horizontal base + Housing black	
NES	LED steady/flashing beacon amber, red, yellow	LED	12 - 24 V AC/DC	11-30 V DC 11-26 V AC	0,4 0,31	440 10C 405	
			24-48 V AC/DC	16-80 V DC 16-60 V AC	0,23 0,18	440 10C 408	
			110-240 V AC/DC	80-265 V AC/DC	0,04	440 10C 413	
	LED steady/flashing beacon clear, blue, green		12 - 24 V AC/DC	11-30 V DC 11-26 V AC	0,4 0,31	440 10C 405	
			24-48 V AC/DC	16-80 VDC 16-60 V AC	0,23 0,18	440 10C 408	
			110-240 V AC/DC	80-265 V AC/DC	0,04	440 10C 413	
NFS	LED strobe/double strobe beacon amber, red, yellow	LED	24-48 V AC/DC	16-60 V DC 16-52 V AC	0,295 0,3	442 10C 408	
			230/240 V AC	+/- 10%	0,07	442 10C 313	
	LED strobe/double strobe beacon clear, blue, green		24-48 V AC/DC	16-60 V DC 16-52 V AC	0,295 0,3	442 10C 408	
			230/240 V AC	+/- 10%	0,07	442 10C 313	
NMS	LED multi-colour beacon green - red - yellow	LED	24 V AC/DC	+/- 10%	0,155	441 100 405	
			48 V AC/DC	+/- 10%	0,09	441 100 408	
			230/240 V AC	+/- 10%	0,105	441 100 313	

Accessories

Type	Denomination					Order No.	Price
	Bracket					817 200 900	
	Magnetic mount					817 203 900	
	Cable gland M20x1,5					698 800 026	



LED Strobe Beacons HIGH PERFORMANCE – NFS-HP LED Multi Colour Beacon HIGH PERFORMANCE – NMS-HP

Extension of successful and bright standard models NFS and NMS with HIGH PERFORMANCE (HP) models.

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

- ▶ highest signalling effect
- ▶ outside applications – clear signalling effect also in bright sunlight
- ▶ optimal signalling effect in extremely dangerous situations/ applications etc

NFS-HP

The model NFS-HP LED strobe beacon HIGH PERFORMANCE additionally offers

- ▶ 3 LED strobe patterns switchable via the terminal: LED double strobe, LED 6-times strobe sequence and an irregular LED 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.



Scheduled availability of NFS-HP and NMS-HP models in low and high voltage: November 2011

NMS-HP

The model NMS-HP LED multi colour beacon HIGH PERFORMANCE offers

- ▶ selection of most suitable signal colour RED-YELLOW-GREEN for the application
- ▶ LED steady or LED flashing light for all 3 colours (via the terminal resp. DIP switch position)
- ▶ LED alternate flashing light for all two colour combinations (red-green/yellow-green/red-yellow) respectively the three colour combination (red-yellow-green), therefore possibility to
- ▶ signalling different application stages by using different LED light functions/colours

Strobe Beacons BZL-BZG

BZL - BZG



Ø 72 mm

Features - BZL

- ▶ 5 or 15 J strobe energies available



Features - BZG

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





Order data

Type	Denomination	Light source	Nominal Voltage (V)	Nominal Current (V)	Nominal Current (A)	Order No.		Price
						horizontal base	pole mount base	
NFS-HP	LED strobe beacon HIGH PERFORMANCE	LED	24-48 V AC/DC			442 15C 408	442 35C 408	
			110-240 V AC/DC			442 15C 413	442 35C 413	
NMS-HP	LED Multi colour beacon HIGH PERFORMANCE	LED	24-48 V AC/DC			441 150 408	441 350 408	
			110-240 V AC/DC			441 150 413	441 350 413	

NOTE: ▶ additional voltages and mounting bases available

Type	Denomination					Order No.	Price
	Bracket					817 200 900	
	Magnetic mount					817 203 900	
	Cable gland M20x1,5					698 800 026	



Order data

Type	Denomination	Light Source	Nominal Voltage (V)	Nominal Current (V)	Nominal Current (A)	Order No.	Price
BZL	Strobe beacon	5 J Xenon tube (included)	24 V DC	+/- 10%	0,28	740 02C 005	
			230/240 V AC		0,05	740 01C 313	
		15 J Xenon tube (included)	24 V DC		0,70	740 04C 005	
			230/240 V AC		0,23	740 03C 313	
BZG	Strobe beacon	5 J Xenon tube (included)	24 V AC/DC	+/- 10%	0,28	741 01C 405	
			230/240 V AC		0,04	741 01C 313	
		15 J Xenon tube (included)	24 V DC		0,70	741 04C 005	
			230/240 V AC		0,23	741 03C 313	

NOTE: ▶ additional voltages available



LED Flashing Beacon BC1

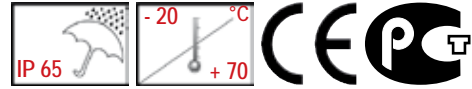
BC1



Ø 63 mm

Features

- cost effective small LED flashing beacon
- simple mounting, bayonet system



Strobe Beacon XB2

XB2

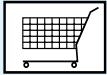


Ø 65 mm

Features

- cost effective small strobe beacon
- simple mounting, optional mounting adapter included
- prewired, ready to use





Order data

Type	Denomination	Light Source	Nominal Voltage (V)	Voltage Range (V)	Nominal Current (A)	Order No.		Price
						Housing red	Housing white	
BC1	LED flashing beacon	LED	24 V DC	20-35 V DC	0,003-0,005	C112 62C 005	C112 22C 005	

NOTE: ▶ lens colour: amber, red



Order data

Type	Denomination	Light Source	Nominal Voltage (V)	Voltage Range (V)	Nominal Current (A)	Order No.	Price
XB2	Strobe beacon	2 J Xenon tube (included)	24 V DC	+/- 10%	0,1	D118 52C 005	
			24 V AC		0,12	D118 52C 305	
			230 V AC		0,025	D118 52C 313	

NOTE: ▶ lens colour only amber or red on stock ▶ additional voltages available



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

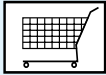
WLK - FLK



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





Order data

Type	Denomination	Light Source	Nominal Voltage (V)	Voltage Range (V)	Nominal Current (A)	Order No.		Price
						Housing grey	Housing black	
WLK	Lens					820 00C 900		
	steady beacon	7 W bulb (GL)	up to 250 V AC/DC	+/- 10%				
	LED steady beacon	LLL						
	LED flashing beacon	LLB						
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, 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	
FLK	Strobe beacon	1 J Xenon tube (included)	12-24 V AC/DC	+/- 10%	12 V: 0,120 24 V: 0,095	840 00C 405		
			230/240 V AC	+/- 10%	0,015	840 00C 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: ▶ additional voltages available ▶ WLK - light sources have to be ordered separately ▶ other pole lengths for bases 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

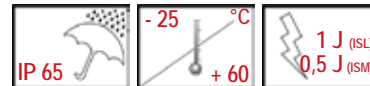


Features

- 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 34-37 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)

LED Strobe Beacons

Scheduled availability in September 2011
(ICL, ICM)



Xenon Strobe Beacons



M22 Panel Mount Beacon (In Built-In Condition)





Order data

Type	Denomination	Light Source	Nominal Voltage (V)	Voltage Range (V)	Nominal Current (A)	Order No.		Price
						Housing grey	Housing black	
IBL (65 mm Ø)	LED steady/flashing beacon amber, red, yellow	LED	24 V AC/DC	+/- 10%	0,060	802 10C 405	802 50C 405	
			230/240 V AC		0,031	802 10C 313	802 50C 313	
	LED steady/flashing beacon clear, blue, green		24 V AC/DC		0,060	802 10C 405	802 50C 405	
			230/240 V AC		0,031	802 10C 313	802 50C 313	
IBM (45 mm Ø)	LED steady/flashing beacon amber, red, yellow	LED	24 V AC/DC	+/- 10%	0,037	801 10C 405	801 50C 405	
			230/240 V AC		0,030	801 10C 313	801 50C 313	
	LED steady/flashing beacon clear, blue, green		24 V AC/DC		0,037	801 10C 405	801 50C 405	
			230/240 V AC		0,030	801 10C 313	801 50C 313	
IBS (30 mm Ø)	LED steady/flashing beacon amber, red, yellow	LED	24 V AC/DC	+/- 10%	0,026	800 10C 405	800 50C 405	
			230/240 V AC		0,019	800 10C 313	800 50C 313	
	LED steady/flashing beacon clear, blue, green		24 V AC/DC		0,026	800 10C 405	800 50C 405	
			230/240 V AC		0,019	800 10C 313	800 50C 313	
ICL (65 mm Ø)	LED strobe beacon 65 mm 2 strobe patterns, amber, red, yellow	LED	24 V AC/DC			802 12C 405	802 52C 405	
			230/240 V AC			802 12C 313	802 52C 313	
	LED strobe beacon 65 mm 2 strobe patterns, clear, blue, green		24 V AC/DC			802 12C 405	802 52C 405	
			230/240 V AC			802 12C 313	802 52C 313	
ICM (45 mm Ø)	LED strobe beacon 45 mm 2 strobe patterns, amber, red, yellow	LED	24 V AC/DC			801 12C 405	801 52C 405	
			230/240 V AC			801 12C 313	801 52C 313	
	LED strobe beacon 45 mm 2 strobe patterns, clear, blue, green		24 V AC/DC			801 12C 405	801 52C 405	
			230/240 V AC			801 12C 313	801 52C 313	
ISS (30 mm Ø)	LED strobe beacon amber, red, yellow	LED	24 V AC/DC	+/- 10%	0,046	800 11C 405	800 51C 405	
			230/240 V AC		0,021	800 11C 313	800 51C 313	
	LED strobe beacon clear, blue, green		24 V AC/DC		0,046	800 11C 405	800 51C 405	
			230/240 V AC		0,021	800 11C 313	800 51C 313	
ISL (65 mm Ø)	Strobe beacon	1 J Xenon tube	12-24 V AC/DC	+/- 10%		802 11C 405	802 51C 405	
			230/240 V AC			0,020	802 11C 313	802 51C 313
ISM (45 mm Ø)	Strobe beacon	0,5 J Xenon tube	24 V AC/DC	+/- 10%		801 11C 405	801 51C 405	
			230/240 V AC			0,012	801 11C 313	801 51C 313
Accessories	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

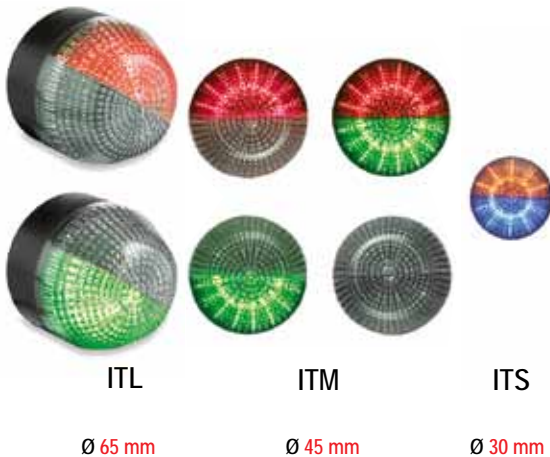
LED Multicolour Beacons 1 of 2 Colours Visible (whole lens illuminated)



Features

- ▶ versatile and comprehensive M22 panel mount beacon series
- ▶ 3 sizes - Ø 65-45-30 mm
- ▶ maintenance free (LED) - long lifetime (~100.000 h) low nominal current, vibration proof
- ▶ Installation depth 34-37 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

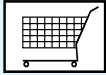
- ▶ sealed cable models with backside IP 67 rating
- ▶ absolutely tight by fixation and sealing of cable
- ▶ individual cable lengths/specifications available upon request
- ▶ all I-series models with Ø 65 and 45 mm can be offered as pre-cabled model (min. quantity required)
- ▶ 45 mm models possible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

3-colour LED beacons IML - IMM

Scheduled availability: September 2011

- ▶ new models IML (Ø 65 mm) and IMM (Ø 45 mm) signalling in
- ▶ 3 colours (red, yellow, green), externally switchable/selectable





Order data

Type	Denomination	Light source	Nominal Voltage (V)	Voltage Range (V)	Nominal Current (A)	Order No.		Prize
						Housing grey	Housing black	
IDL (65 mm Ø)	LED multicolour steady beacon 1st color: amber, red, yellow 2nd color: any color	LED	24 V AC/DC	+/- 10%	0,071	802 2CC 405	802 6CC 405	
			230/240 V AC		0,061	802 2CC 313	802 6CC 313	
	24 V AC/DC		0,071		802 2CC 405	802 6CC 405		
	230/240 V AC		0,061		802 2CC 313	802 6CC 313		
IDM (45 mm Ø)	LED multicolour steady beacon 1st color: amber, red, yellow 2nd color: any color	LED	24 V AC/DC	+/- 10%	0,046	801 2CC 405	801 6CC 405	
			230/240 V AC		0,035	801 2CC 313	801 6CC 313	
	24 V AC/DC		0,046		801 2CC 405	801 6CC 405		
	230/240 V AC		0,035		801 2CC 313	801 6CC 313		
IDS (30 mm Ø)	LED multicolour steady beacon 1st color: amber, red, yellow 2nd color: any color	LED	24 V AC/DC	+/- 10%	0,028	800 2CC 405	800 6CC 405	
	LED multicolour steady beacon 1st color: green, blue, clear 2nd color: green, blue, clear		24 V AC/DC		0,028	800 2CC 405	800 6CC 405	
ITL (65 mm Ø)	LED multicolour steady beacon 1st color: amber, red, yellow 2nd color: any color	LED	24 V AC/DC	+/- 10%	0,044	802 3CC 405	802 7CC 405	
			230/240 V AC		0,041	802 3CC 313	802 7CC 313	
	24 V AC/DC		0,044		802 3CC 405	802 7CC 405		
	230/240 V AC		0,041		802 3CC 313	802 7CC 313		
ITM (45 mm Ø)	LED multicolour steady beacon 1st color: amber, red, yellow 2nd color: any color	LED	24 V AC/DC	+/- 10%	0,039	801 3CC 405	801 7CC 405	
			230/240 V AC		0,034	801 3CC 313	801 7CC 313	
	24 V AC/DC		0,039		801 3CC 405	801 7CC 405		
	230/240 V AC		0,034		801 3CC 313	801 7CC 313		
ITS (30 mm Ø)	LED multicolour steady beacon 1st color: amber, red, yellow 2nd color: any color	LED	24 V AC/DC	+/- 10%	0,030	800 3CC 405	800 7CC 405	
	LED multicolour steady beacon 1st color: green, blue, clear 2nd color: green, blue, clear		24 V AC/DC		0,030	800 3CC 405	800 7CC 405	
IML (65 mm Ø)	LED 3 colour steady beacon red-yellow-green	LED	12-24 V AC/DC	+/- 10%		802 150 405	802 550 405	
			230/240 V AC			802 150 313	802 550 313	
IMM (45 mm Ø)	LED 3 colour steady beacon red-yellow-green	LED	24 V AC/DC	+/- 10%		801 150 405	801 550 405	
Accessories	Adapter M30,5						812 500 900	
	Fastening tool for 30 mm models						812 400 900	

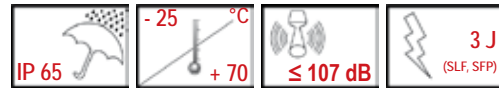


Signal Tower modulSIGNAL70



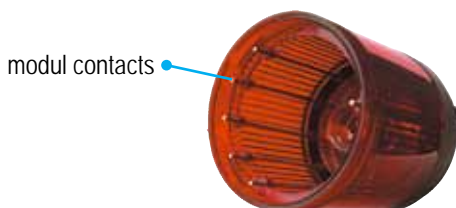
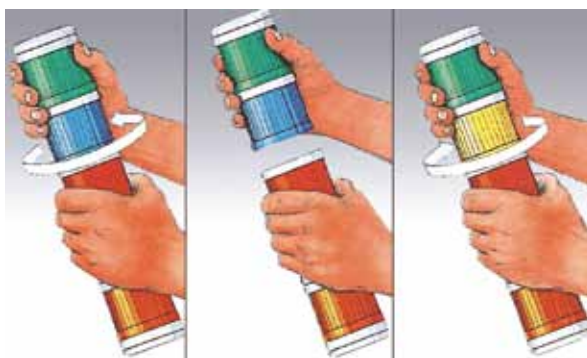
Features

- ▶ 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

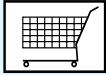


- ▶ modular construction with bayonet locking system
- ▶ fast and easy to operate, mount, configurate and change of modules
- ▶ troublefree and fingersafe bulb change at any position without using any tools

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.



Order data

Type	Denomination	Light Source			Tone options		Nominal Voltage (V)	Volt. range (V)	Nominal Current (A)	Order No.		Price	Order No.			
		Bulb GL	LED bulb steady light LLL	LED bulb flash. light LLB	Tone types	Sound pressure (dB)				Housing grey	Housing black		Housing silver	Price		
Light Modules																
SLL	Steady light	x	x	x			- 250 V AC/DC	+/- 10%	7 W	210 10C 900	210 50C 900		210 80C 900			
SLB	Flashing light	x	x				12-24 V AC/DC 230/240 V AC		7 W	220 10C 405 220 10C 313	220 50C 405 220 50C 313		220 80C 405 220 80C 313			
SLF	Strobe light	3 J Xenon tube					12-24 V AC/DC 230/240 V AC		0,180 0,035	230 10C 405 230 10C 313	230 10C 405 230 50C 313		230 80C 405 230 80C 313			
SDC	LED steady light amber, red, yellow, green	integrated LEDs					24 V AC/DC 230/240 V AC	+/- 10%	0,070	211 10C 405	211 50C 405		211 80C 405			
	LED steady light clear, blue						230/240 V AC		0,041	211 10C 313	211 50C 313		211 80C 313			
	LED flashing light amber, red, yellow, green				integrated LEDs						24 V AC/DC 230/240 V AC	+/- 10%	0,070	221 10C 405	221 50C 405	
LED flashing light clear, blue			230/240 V AC	0,041				221 10C 313	221 50C 313		221 80C 313					
Light-Buzzer Modules																
SLP	Steady light-buzzer	x	x	x	cont. or puls.	107 oder 92	24 V AC/DC 230/240 V AC	+/- 10%	7 W 45 mA	250 10C 405 250 10C 313	250 50C 405 250 50C 313		250 80C 405 250 80C 313			
SLD	Steady light-buzzer light/sound separately switchable	x	x	x	cont. or puls.	107 oder 92	24 V AC/DC 230/240 V AC		7 W 45 mA	212 10C 405 212 10C 313	212 50C 405 212 50C 313		212 80C 405 212 80C 313			
SBP	Flashing light-buzzer	x	x		cont. or puls.	107 oder 92	24 V AC/DC 230/240 V AC		7 W 45 mA	260 10C 405 260 10C 313	260 50C 405 260 50C 313		260 80C 405 260 80C 313			
SFP	Strobe light-buzzer	3 J Xenon tube			cont. or puls.	107 oder 92	24 V AC/DC 230/240 V AC		0,220 0,075	270 10C 405 270 10C 313	270 50C 405 270 50C 313		270 80C 405 270 80C 313			
Sound Modules																
SDE	Piezo buzzer, IP65				cont. or puls.	107 oder 92	24 V AC/DC 230/240 V AC	+/- 10%	0,045 0,040	247 100 405 247 100 313	247 500 405 247 500 313		247 800 405 247 800 313			
SDZ	Piezo buzzer, IP65 tone type externally switchable				cont. + puls.	107 oder 92	24 V AC/DC 230/240 V AC		0,045 0,040	248 100 405 248 100 313	248 500 405 248 500 313		248 800 405 248 800 313			
SPE	Piezo buzzer, IP54				cont. or puls.	97 oder 85	24 V AC/DC 230/240 V AC		0,045 0,040	243 100 405 243 100 313	243 500 405 243 500 313		243 800 405 243 800 313			
SPZ	Piezo buzzer, IP54 tone type externally switchable				cont. + puls.	97 oder 85	24 V AC/DC 230/240 V AC		0,045 0,040	244 100 405 244 100 313	244 500 405 244 500 313		244 800 405 244 800 313			
STE	Electronic sounder 15 tone types				15	64-103	24 V AC/DC 230/240 V AC	+/- 10%	0,075	241 100 405	241 500 405		241 800 405			
STZ	Electronic sounder 15 tone types 2 tones externally switchable				15	64-103	24 V AC/DC 230/240 V AC		0,065 0,075	241 100 313 242 100 405	241 500 313 242 500 405		241 800 313 242 800 405			
AS-Interface		Specifications														
BAZ	AS-Interface module	31 slaves / 4 modules										280 500 510				
		62 slaves / 3 modules										280 500 000				
		62 slaves / 4 modules										280 500 100				
Bases		Pole length mm														
BMW	Base for horizontal mounting											200 100 900	200 500 900	200 810 900		
BMV	Base for vertical mounting											200 200 900	200 600 900	200 820 900		
BMR	Pole mount base on aluminium tube with plastic foot											100 mm	200 302 900	200 702 900	200 802 900	
												250 mm	200 303 900	200 703 900	200 803 900	
BSR	Pole mount base on stainless steel tube with metal foot											100 mm	200 312 900	200 712 900	200 812 900	
												250 mm	200 313 900	200 713 900	200 813 900	
BWS	Pole mount base on aluminium tube 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 BWS														
BFR	Pole mount base on aluminium base with foot adapter for quick mounting											100 mm	200 400 900 200 342 900	200 800 900 200 742 900	200 842 900	
												250 mm	200 343 900	200 743 900	200 843 900	
Accessories for BMR																
BDW		for horizontal mounting										841 101 900	841 501 900			
BDV	Pole connection box	for vertical mounting										841 111 900	841 511 900			
BDM		for magnetic mounting										841 121 900	841 521 900			

NOTE: additional voltages and pole lengths available bulbs have to be ordered separately cap is automatically included with each base

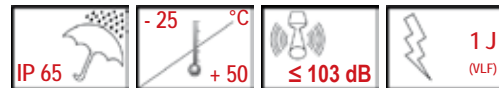


Signal Tower modulSIGNAL50

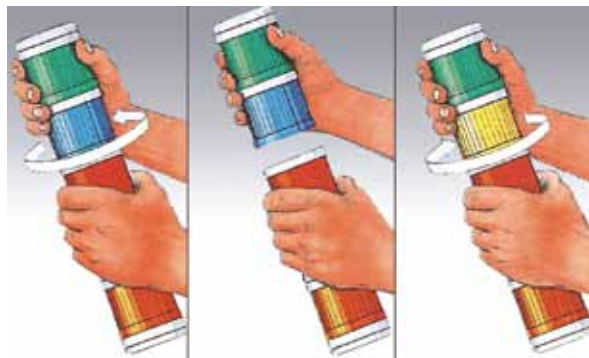


Features

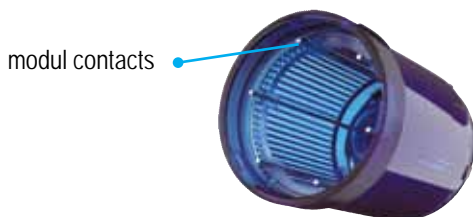
- ▶ modular, well proven signal tower family
- ▶ comprehensive range of visual, audible and special modules
- ▶ LED steady, LED flashing and LED strobe light modules
- ▶ most modern LED technique in LED strobe light modules and LED multi strobe light modules
- ▶ 6 lens colours, 3 housing colours
- ▶ wide range of mounting options
- ▶ plc fit (leakage, inrush current)
- ▶ UL type 4, 4X, 13



Ø 50 mm



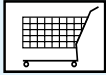
- ▶ modular construction with bayonet locking system
- ▶ fast and easy to operate, mount, configure and change of modules
- ▶ troublefree and fingersafe bulb change at any position without using any tools



Quick mount system „FOOT ADAPTER“ (Pat.No. 501053) (Base type VFR)



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



Order data

Type	Denomination	Light Source			Tone options		Nominal Voltage (V)	Volt. range (V)	Nominal Current (A)	Order No.		Price	Artikel-Nr.							
		Bulb GL	LED bulb steady light LLL	LED bulb flash-light LLB	Tone types	Sound pressure (dB)				Housing grey	Housing black		Housing silver	Price						
Light Modules																				
VLL	Steady light	x	x	x			- 250 V AC/DC	+/- 10%	7 W	750 00C 900										
VLB	Flashing light	x	x				12-24 V AC/DC		7 W	760 00C 405										
							230/240 V AC			760 00C 313										
VDC*	LED steady light orange, red, green, yellow	integrated LED					24 V AC/DC			751 00C 405										
	230/240 V AC						751 00C 313													
LED steady light clear, blue	24 V AC/DC						751 00C 405													
	230/240 V AC						751 00C 313													
VDA*	LED flashing light orange, red, green, yellow						24 V AC/DC			761 00C 405										
	230/240 V AC						761 00C 313													
LED flashing light clear, blue	24 V AC/DC						761 00C 405													
	230/240 V AC						761 00C 313													
VDF*	LED strobe light						24 V AC/DC			771 00C 405										
VFF*	LED multi strobe light						24 V AC/DC			772 00C 405										
VLF	Xenon strobe light						3 J Xenon tube							12-24 V AC/DC	0,07	770 00C 405				
								230/240 V AC						0,015		770 00C 313				
Sound Modules																				
VDE	Piezo buzzer, IP 65												103 or 88	24 V AC/DC	+/- 10%	0,025	781 100 405	781 500 405		781 800 405
		230/240 V AC	0,033	781 100 313	781 500 313				781 800 313											
VDZ	Piezo buzzer, IP65 tone type and sound pressure selectable with DIP-switch						103 or 88	24 V AC/DC	+/- 10%	0,025	782 100 405	782 500 405		782 800 405						
							230/240 V AC			0,033	782 100 313	782 500 313		782 800 313						
AS-Interface		Specifications																		
VAZ	AS-Interface module	31 slaves/4 Module									780 500 500									
		62 slaves/3 Module									780 500 600									
		62 slaves/4 Module									780 500 700									
Bases		Pole length mm																		
VMW	Base for horizontal mounting										790 120 900	790 520 900		790 820 900						
VMV	Base for vertical mounting										790 140 900	790 540 900		790 840 900						
VMR	Pole mount base on aluminium tube with plastic foot	100 mm									790 142 900	790 542 900		790 842 900						
		250 mm									790 143 900	790 543 900		790 843 900						
VSR	Pole mount base on stainless steel tube with metal foot	100 mm									790 152 900	790 552 900		790 852 900						
		250 mm									790 153 900	790 553 900		790 853 900						
VSW	Pole mount base on aluminium tube for horizontal mounting with screw	100 mm									790 172 900	790 572 900		790 872 900						
		250 mm									790 173 900	790 573 900		790 873 900						
BSS	Set for vertical mounting (for VSW)										200 400 900	200 800 900								
VFR	Base with foot adapter for quick mounting	100 mm									790 182 900	790 582 900		790 882 900						
		250 mm									790 183 900	790 583 900		790 883 900						
Accessories																				
BDW		for horizontal mounting									841 101 900	841 501 900								
BDV	Pole connection box (VMR only)	for vertical mounting									841 111 900	841 511 900								
BDM		for magnetic mounting									841 121 900	841 521 900								
	Safety screw set										700 000 900									

cap is automatically included with each base

bulbs have to be ordered separately

additional voltages and pole lengths available

*Scheduled availability of the LED strobe modules: October 2011



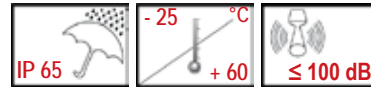
Signal Tower modulCOMPACT70



Ø 70 mm

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 manufactures and their customers.



Order data

Type	Denomination	Light Source	Tone options		Nominal Voltage (V)	Volt. range (V)	Nominal Current (A)	Order No.		Price	Order No.	
			Tone types	Sound pressure (dB)				Housing grey	Housing black		Housing silver	Price
Light Modules												
DLL	LED steady light amber, red, yellow	integrated LEDs			(24 V AC/DC)	+/- 10%	0,030	705 00C 900P				
	LED steady light green, clear, blue		0,030	705 00C 900P								
DLB	LED flashing light amber, red, yellow	integrated LEDs			(24 V AC/DC)		0,030	706 00C 900P				
	LED flashing, light green, clear, blue		0,030	706 00C 900P								
Sound Modules												
DDD	Piezo buzzer			cont.	100	(24 V AC/DC)	+/- 10%	0,053	707 100 900P	707 500 900P	707 800 900P	
DDP		pulsing	0,053	707 110 900P				707 510 900P	707 810 900P			
DDZ		cont. + pulsing	0,053	707 120 900P				707 520 900P	707 820 900P			
DLD		cont.	0,053	707 101 900P				707 501 900P	707 801 900P			
DLP	Piezo buzzer			pulsing	85	(24 V AC/DC)	+/- 10%	0,053	707 111 900P	707 511 900P	707 811 900P	
DLZ		cont. + pulsing	0,053	707 121 900P				707 521 900P	707 821 900P			
Bases												
		Specifications	Pole length mm									
DMW	Base for horizontal mounting	up to 3 modules			24 V AC/DC	+/- 10%	708 100 405M 708 500 405M		708 800 405M			
		up to 5 modules			230/240 V AC		708 100 313M 708 500 313M		708 800 313M			
					24 V AC/DC		708 101 405M 708 501 405M		708 801 405M			
							230/240 V AC	708 101 313M 708 501 313M		708 801 313M		
DMV	Base for vertical mounting	up to 3 modules			24 V AC/DC	+/- 10%	708 110 405M 708 510 405M		708 810 405M			
		up to 5 modules			230/240 V AC		708 110 313M 708 510 313M		708 810 313M			
					24 V AC/DC		708 111 405M 708 511 405M		708 811 405M			
							230/240 V AC	708 111 313M 708 511 313M		708 811 313M		
DSW	Pole mount base on aluminium tube for horizontal mounting in hole with screw	up to 3 modules	100 mm	24 V AC/DC	+/- 10%	708 122 405M 708 522 405M		708 822 405M				
		up to 5 modules	250 mm			708 123 405M 708 523 405M		708 823 405M				
			100 mm			24 V AC/DC	708 132 405M 708 532 405M		708 832 405M			
							250 mm	708 133 405M 708 533 405M		708 833 405M		
DSW	Pole mount base on aluminium tube for horizontal mounting in hole with screw	up to 3 modules	100 mm	230/240 V AC	+/- 10%	708 122 313M 708 522 313M		708 822 313M				
		up to 5 modules	250 mm			708 123 313M 708 523 313M		708 823 313M				
			100 mm			230/240 V AC	708 132 313M 708 532 313M		708 832 313M			
							250 mm	708 133 313M 708 533 313M		708 833 313M		
BSS	Set for vertical mounting	for DSW					200 400 900	200 800 900				
DMR	Pole mount base on aluminium tube with plastic foot	up to 3 modules	100 mm	24 V AC/DC	+/- 10%	708 142 405M 708 542 405M		708 842 405M				
		up to 5 modules	250 mm			708 143 405M 708 543 405M		708 843 405M				
			100 mm			24 V AC/DC	708 152 405M 708 552 405M		708 852 405M			
							250 mm	708 153 405M 708 553 405M		708 853 405M		
DMR	Pole mount base on aluminium tube with plastic foot	up to 3 modules	100 mm	230/240 V AC	+/- 10%	708 142 313M 708 542 313M		708 842 313M				
		up to 5 modules	250 mm			708 143 313M 708 543 313M		708 843 313M				
			100 mm			230/240 V AC	708 152 313M 708 552 313M		708 852 313M			
							250 mm	708 153 313M 708 553 313M		708 853 313M		
DFR	Pole mount base for on aluminium tube with foot adapter for quick mounting	up to 3 modules	100 mm	24 V AC/DC	+/- 10%	708 162 405M 708 562 405M		708 862 405M				
		up to 5 modules	250 mm			708 163 405M 708 563 405M		708 863 405M				
			100 mm			24 V AC/DC	708 172 405M 708 572 405M		708 872 405M			
							250 mm	708 173 405M 708 573 405M		708 873 405M		
DFR	Pole mount base for on aluminium tube with foot adapter for quick mounting	up to 3 modules	100 mm	230/240 V AC	+/- 10%	708 162 313M 708 562 313M		708 862 313M				
		up to 5 modules	250 mm			708 163 313M 708 563 313M		708 863 313M				
			100 mm			230/240 V AC	708 172 313M 708 572 313M		708 872 313M			
							250 mm	708 173 313M 708 573 313M		708 873 313M		

cap is automatically mounted

additional voltages and pole lengths available

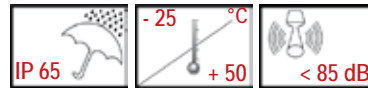


Signal Tower modulCOMPACT30



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 cables 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

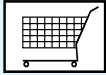


Ø 30 mm

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 manufactures and their customers.



Order data

Type	Denomination	Light Source	Tone options		Nominal Voltage (V)	Volt. range (V)	Nominal Current (A)	Order No.		Price	Order No.	
			Tone types	Sound pressure (dB)				Housing grey	Housing black		Housing silver	Price
Light Modules												
CLL	LED steady light amber, red, yellow	integrated LEDs			(24 V AC/DC)	+/- 10%	0,030	701 00C 900P				
	LED steady light green, clear, blue						0,030	701 00C 900P				
CLB	LED flashing light amber, red, yellow	integrated LEDs			(24 V AC/DC)		0,030	702 00C 900P				
	LED flashing light green, clear, blue						0,030	702 00C 900P				
Sound Modules												
CDD	Piezo buzzer		cont.	85	(24 V AC/DC)	+/- 10%	0,040	703 100 900P	703 500 900P		703 800 900P	
CDP			pulsing				0,040	703 110 900P	703 510 900P		703 810 900P	
CDZ			cont. + pulsing				0,040	703 120 900P	703 520 900P		703 820 900P	
Bases												
CSW	Pole mount base on aluminium tube for horizontal mounting in hole with screw	up to 3 modules	Pole length mm		24 V AC/DC	+/- 10%		700 110 405P	700 510 405P		700 810 405P	
			0 mm	100 mm				700 112 405P	700 512 405P		700 812 405P	
up to 5 modules	0 mm	100 mm	24 V AC/DC	700 120 405P	700 520 405P			700 820 405P				
	0 mm	100 mm	24 V AC/DC	700 122 405P	700 522 405P			700 822 405P				
CSW	Pole mount base on aluminium tube for horizontal mounting in hole with screw	up to 3 modules	Pole length mm		230/240 V AC	+/- 10%		700 110 313P	700 510 313P		700 810 313P	
			0 mm	100 mm				700 112 313P	700 512 313P		700 812 313P	
up to 5 modules	0 mm	100 mm	230/240 V AC	700 120 313P	700 520 313P			700 820 313P				
	0 mm	100 mm	230/240 V AC	700 122 313P	700 522 313P			700 822 313P				
CSS	Set for vertical mounting for CSW						700 130 900	700 530 900				
CMR	Pole mount base on aluminium tube with plastic foot	up to 3 modules	Pole length mm		24 V AC/DC	+/- 10%		700 140 405P	700 540 405P		700 840 405P	
			0 mm	100 mm				700 142 405P	700 542 405P		700 842 405P	
up to 5 modules	0 mm	100 mm	24 V AC/DC	700 150 405P	700 550 405P			700 850 405P				
	0 mm	100 mm	24 V AC/DC	700 152 405P	700 552 405P			700 852 405P				
CMR	Pole mount base on aluminium tube with plastic foot	up to 3 modules	Pole length mm		230/240 V AC	+/- 10%		700 140 313P	700 540 313P		700 840 313P	
			0 mm	100 mm				700 142 313P	700 542 313P		700 842 313P	
up to 5 modules	0 mm	100 mm	230/240 V AC	700 150 313P	700 550 313P			700 850 313P				
	0 mm	100 mm	230/240 V AC	700 152 313P	700 552 313P			700 852 313P				
CFR	Pole mount base on aluminium tube with foot adapter for quick mounting	up to 3 modules	Pole length mm		24 V AC/DC	+/- 10%		700 160 405P	700 560 405P		700 860 405P	
			0 mm	100 mm				700 162 405P	700 562 405P		700 862 405P	
up to 5 modules	0 mm	100 mm	24 V AC/DC	700 170 405P	700 570 405P			700 870 405P				
	0 mm	100 mm	24 V AC/DC	700 172 405P	700 572 405P			700 872 405P				
CFR	Pole mount base on aluminium tube with foot adapter for quick mounting	up to 3 modules	Pole length mm		230/240 V AC	+/- 10%		700 160 313P	700 560 313P		700 860 313P	
			0 mm	100 mm				700 162 313P	700 562 313P		700 862 313P	
up to 5 modules	0 mm	100 mm	230/240 V AC	700 170 313P	700 570 313P			700 870 313P				
	0 mm	100 mm	230/240 V AC	700 172 313P	700 572 313P			700 872 313P				

NOTE:
 additional voltages and pole lengths available
 cap is automatically mounted



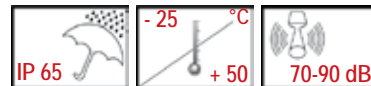
Signal Tower halfDOME90



Ø 90 mm

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

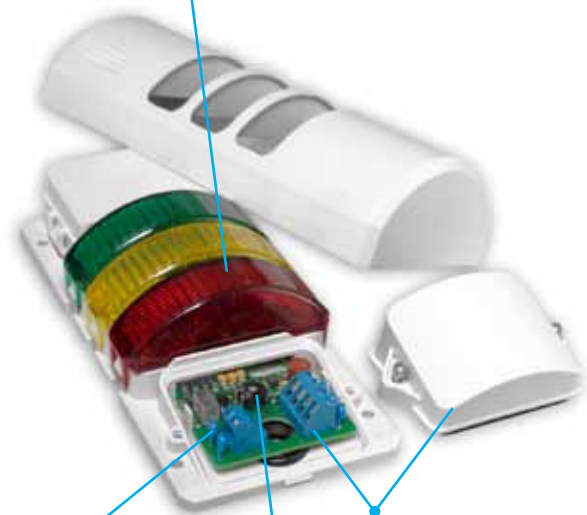


modules always work with 24 V voltage

slim design, only 45 mm wide for optimal integration/ combination of signal tower unit in machine/panel building or other (building) applications



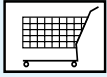
IP 65 – for use in damp and dusty environmental conditions, also outdoor



supply voltage is chosen with the respective base

easy electrical connection (terminals, removable cover)

volume individually adjustable from ~70-90 dB
















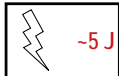



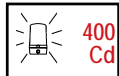
Order data

Type	Denomination	Light Source	Tone options		Nominal Voltage (V)	Volt. Range (V)	Nominal Current (A)	Order No.	Price	Order No.		Price	
			Tone types	Sound pressure (dB)									
Light Modules													
HDL	LED steady light amber, red, yellow	integrated LEDs			(24 V AC/DC)		0,043	745 00C 900P					
	LED steady light green, clear, blue						0,043	745 00C 900P					
HDB	LED flashing light amber, red, yellow	integrated LEDs			(24 V AC/DC)		0,043	745 01C 900P					
	LED flashing light green, clear, blue						0,043	745 01C 900P					
Buzzer Module													
HDZ	Piezo buzzer		continuous and pulsing	70-90	(24 V AC/DC)		0,065	745 020 900		745 020 900	745 020 900		
Housings													
HD2	Housing for 2 lights				24 V AC/DC	+/- 10%		745 102 405		745 502 405	745 802 405		
HD3	Housing for 3 lights								745 103 405		745 503 405	745 803 405	
HD4	Housing for 4 lights								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				230/240 V AC	+/- 10%		745 102 313		745 502 313	745 802 313		
HD3	Housing for 3 lights								745 103 313		745 503 313	745 803 313	
HD4	Housing for 4 lights								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



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

	Size 1	Size 2	Size 3	Size 4	
	H = 188 mm	H = 264 mm	H = 367 mm	H = 457 mm	
					
	 <103 dB	 <106 dB	 <113 dB	 <120 dB	
	8 Tones	32 Tones	32 Tones	63 Tones	
Multi-Tone Sounder + LED Steady/Flashing Beacon	ASS-P+QDS	ASS-T+QDS	ASM+QDM	ASL+QDL	ASX+QDX
	 10 Cd	 10 Cd	 120 Cd	 170 Cd	 300 Cd
Multi-Tone Sounder + Xenon Strobe Beacon	ASS-P+QFS	ASS-T+QFS	ASM+QFM	ASL+QBL	ASX+QBX
	 -5 J	 -5 J	 -10 J	Multi-Tone Sounder + LED Strobe Beacon	 250 Cd
					 400 Cd

Scheduled availability:
Size 1 and Size 2 in June 2011
Size 3 and Size 4 in September 2011

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
 - in most up-to-date LED technique (long lifetime, low nominal current, vibrationproof)
 - LED steady/flashing beacons (size 1-4)
 - LED strobe beacons (size 3-4) (very bright, high signalling effect, 3 strobe patterns (double/multiple strobe sequences))
 - in conventional Xenon technique (classic signalling with good signalling effect)
 - Xenon strobe beacons up to 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.

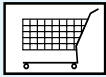
Tone table

please refer to page 47.

Accessories and Installation options:

for details please refer to page 44.





Order data

Type	Denomination	Max. Sound pressure (dB A)	Nominal voltage (V)	Voltage range (V)	Nominal current (A)	Order No. Housing red	Price
ASS-P	Multi-tone alarm sounder size 1, 8 tones	103	24 V AC/DC	+/- 10%	0,025	874 060 405	
			48 V AC/DC		0,020	874 060 408	
			230/240 V AC		0,020	874 060 313	
ASS-T	Multi-tone alarm sounder size 1, 32 tones	106	24 V AC/DC	+/- 10%	0,150	874 160 405	
			48 V AC/DC		0,100	874 160 408	
			230/240 V AC		0,015	874 160 313	
ASM	Multi-tone alarm sounder size 2, 32 tones	113	24 V AC/DC	+/- 10%	0,150	874 260 405	
			48 V AC/DC		0,100	874 260 408	
			230/240 V AC		0,015	874 260 313	
ASL	Multi-tone alarm sounder size 3, 63 tones	120	24-48 V AC/DC	+/- 10%	0,550	874 360 408	
			230/240 V AC		0,075	874 360 313	
ASX	Multi-tone alarm sounder size 4, 63 tones	127	24-48 V AC/DC	+/- 10%	1,100	874 460 408	
			230/240 V AC		0,150	874 460 313	

Type	Denomination	Light Source	Nominal voltage (V)	Voltage range (V)	Nominal current (A)	Order No. Housing red	Price
QDS	LED steady/flashing beacon size 1	LED 10 Cd	24 V AC/DC	+/- 10%	0,110	874 16C 405	
			48 V AC/DC		0,070	874 16C 408	
			230/240 V AC		0,065	874 16C 313	
QDM	LED steady/flashing beacon size 2	LED 120 Cd	24-48 V AC/DC	16-60 V DC	max. 0,350	874 26C 408	
			110-240 V AC/DC	16-53 V AC	max. 0,055	874 26C 413	
QDL	LED steady/flashing beacon size 3	LED 170 Cd	24-48 V AC/DC	18-60 V DC	max. 0,700	874 36C 408	
			110-240 V AC/DC	18-53 V AC	max. 0,250	874 36C 413	
QDX	LED steady/flashing beacon size 4	LED 300 Cd	24-48 V AC/DC	18-60 V DC	max. 1,400	874 46C 408	
			110-240 V AC/DC	18-53 V AC	max. 0,500	874 46C 413	

QFS	Xenon strobe beacon size 1	Xenon tube 5 J	24-48 V AC/DC	16-53 V AC/DC	0,320	874 56C 408	
			230/240 V AC	+/- 10%	0,085	874 56C 313	
QFM	Xenon strobe beacon size 2	Xenon tube 10 J	24-48 V AC/DC	16-53 V AC/DC	0,600	874 66C 408	
			230/240 V AC	+/- 10%	0,170	874 66C 313	
QBL	LED strobe beacon size 3	LED 250 Cd	24-48 V AC/DC	18-60 V DC	max. 1,000	874 76C 408	
			110-240 V AC/DC	18-53 V AC	max. 0,400	874 76C 413	
QBX	LED strobe beacon size 4	LED 400 Cd	24-48 V AC/DC	18-60 V DC	max. 2,000	874 86C 408	
			110-240 V AC/DC	18-53 V AC	max. 0,750	874 86C 413	

Accessories

Type	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

	Size 1		Size 2	Size 3	Size 4
	H = 94 mm		H = 173 mm	H = 239 mm	H = 284 mm
	 <103 dB	 <106 dB	 <113 dB	 <120 dB	 <127 dB
	8 Tones	32 Tones	32 Tones	63 Tones	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			ACM	ACL	ACX
+ LED strobe light indicator			 4,6 Cd	 6 Cd	 6 Cd

Scheduled availability:
Size 1 and Size 2 in June 2011
Size 3 and Size 4 in September 2011

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, ADL, ADX, ACL, 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/multi 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 47.

Accessories and Installation options:

for details please refer to page 44.

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



(in preparation)



Order data












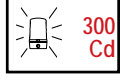



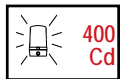
Type	Denomination	Max. Sound pressure (dB A)	Nominal voltage (V)	Voltage range (V)	Nominal current (A)	Order No. Housing red	Price
ADS-P	Multi-tone alarm sounder size 1 with LED steady/flashing indicator 8 tones	103	24 V AC/DC	+/- 10%	0,035	875 06C 405	
			230/240 V AC		0,030	875 06C 313	
ADS-T	Multi-tone alarm sounder size 1 with LED steady/flashing indicator 32 tones	106	24 V AC/DC	+/- 10%	0,160	875 16C 405	
			230/240 V AC		0,032	875 16C 313	
ADM	Multi-tone alarm sounder size 2 with LED steady/flashing indicator 32 tones	116	24 V AC/DC	+/- 10%	0,190	875 26C 405	
			230/240 V AC		0,060	875 26C 313	
ADL	Multi-tone alarm sounder size 3 with LED steady/flashing indicator 63 tones	120	24 - 48 V AC/DC	+/- 10%	0,600	875 36C 405	
			230/240 V AC		0,110	875 36C 313	
ADX	Multi-tone alarm sounder size 4 with LED steady/flashing indicator 63 tones	127	24 - 48 V AC/DC	+/- 10%	1,160	875 46C 405	
			230/240 V AC		0,180	875 46C 313	
ACM	Multi-tone alarm sounder size 2 with LED strobe light indicator 33 tones	113	24 V AC/DC	+/- 10%	0,210	875 66C 405	
			230/240 V AC		0,045	875 66C 313	
ACL	Multi-tone alarm sounder size 3 with LED strobe light indicator 63 tones	120	24 - 48 V AC/DC	+/- 10%	0,620	875 76C 405	
			230/240 V AC		0,110	875 76C 313	
ACX	Multi-tone alarm sounder size 4 with LED strobe light indicator 63 tones	127	24 - 48 V AC/DC	+/- 10%	1,180	875 86C 405	
			230/240 V AC		0,180	875 86C 313	

Accessories

Type	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	



Beacons „Q“ with Buzzer Indicator

	Size 1 H = 104 mm	Size 2 H = 166 mm	Size 3 H = 207 mm	Size 4 H = 272 mm	
					
	 <85 dB 2 Tones	 <100 dB 2 Tones	 <105 dB 3 Tones	 <105 dB 3 Tones	
LED Steady/ Flashing Beacons + Buzzer Indicator	QSS  10 Cd	QSM  120 Cd	QSL  170 Cd	QSX  300 Cd	
Xenon Strobe Beacon + Buzzer Indicator	QTS  ~5 J	QTM  ~10 J	LED Strobe Beacon + Buzzer Indicator	QCL  250 Cd	QCX  400 Cd

Scheduled availability:
Size 1 and Size 2 in June 2011
Size 3 and Size 4 in September 2011

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
 - in most up-to-date LED technique (long lifetime, low current consumption, vibration proof):
 - LED steady/flashing beacons (size 1-4) and
 - LED strobe beacons - 3 strobe patterns – double/multi strobe (size 3-4) or
 - in conventional Xenon strobe technique (classic signalling with good signalling effect):
 - Xenon strobe beacons with ~5 J to 10 J strobe energy (size 1-2)
- fit for plc applications (leakage, inrush current)

Tone table

Please refer to page 47.

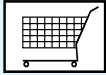
Accessories and Installation options:

for details please refer to page 44.

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



(in preparation)



Order data

Type	Denomination	Light Source	Nominal voltage (V)	Voltage range (V)	Nominal current (A)	Order No. Housing red	Price
QSS	LED steady/flashing beacon size 1 with buzzer indicator	LED 10 Cd	24 V AC/DC	+/- 10%	0,150	876 16C 405	
			230/240 V AC		0,085	876 16C 313	
QSM	LED steady/flashing beacon size 2 with buzzer indicator	LED 120 Cd	24 V AC/DC	+/- 10%	0,350	876 26C 405	
			230/240 V AC		0,095	876 26C 313	
QSL	LED steady/flashing beacon size 3 with buzzer indicator	LED 170 Cd	24 V AC/DC	+/- 10%	0,700	876 36C 405	
			230/240 V AC		0,180	876 36C 313	
QSX	LED steady/flashing beacon size 4 with buzzer indicator	LED 300 Cd	24 V AC/DC	+/- 10%	1,400	876 46C 405	
			230/240 V AC		0,350	876 46C 313	
QTS	Xenon strobe beacon size 1 with buzzer indicator	Xenon-tube ~5 J	24 V AC/DC	+/- 10%	0,350	876 56C 405	
			230/240 V AC		0,100	876 56C 313	
QTM	Xenon strobe beacon size 2 with buzzer indicator	Xenon-tube ~10 J	24 V AC/DC	+/- 10%	0,600	876 66C 405	
			230/240 V AC		0,210	876 66C 313	
QCL	LED strobe beacon size 3 with buzzer indicator	LED 250 Cd	24 V AC/DC	+/- 10%	1,000	876 76C 405	
			230/240 V AC		max. 0,300	876 76C 313	
QCX	LED strobe beacon size 4 with buzzer indicator	LED 400 Cd	24 V AC/DC	+/- 10%	max. 2,000	876 86C 405	
			230/240 V AC		max. 0,500	876 86C 313	

Accessories

Type	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

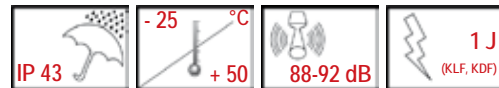


KLL - KLF

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



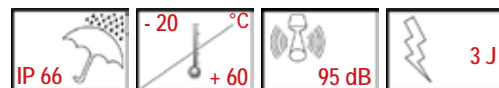
Strobe Beacon-Signalling Sounder VS4

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





Order data

Type	Denomination	Light Source			Tone options		Nominal Voltage (V)	Hz	Voltage Range (V)	Nominal Current (A) incl. 7W bulb	Order No.										
		Bulb GL	LED bulb steady light LLL	LED bulb flash. light LLB	Tone types	Sound pressure (dB)					Housing grey	Price									
KLL	Mini horn-signal beacon with cone	x	x	x	cont.	88	12 V AC	50	+/- 10%	0,750	710 11C 104										
							24 V AC	50		0,400	710 11C 105										
							48 V AC	50		0,200	710 11C 108										
							230V AC	50		0,040	710 11C 113										
							120 V AC	60		0,070	710 11C 210										
							12 V DC			0,700	710 11C 004										
					92	24 V DC		0,350		710 11C 005											
						48 V DC		0,200		710 11C 008											
						220 V DC		0,040		710 11C 013											
						KDL	Mini horn-signal beacon without cone	x		x	x	cont.	88	12 V AC	50	+/- 10%	0,750	710 01C 104			
														24 V AC	50		0,400	710 01C 105			
														48 V AC	50		0,200	710 01C 108			
230V AC	50	0,040	710 01C 113																		
120 V AC	60	0,070	710 01C 210																		
12 V DC		0,700	710 01C 004																		
92	24 V DC		0,350	710 01C 005																	
	48 V DC		0,200	710 01C 008																	
	220 V DC		0,040	710 01C 013																	
	KLF	Mini horn-strobe beacon with cone	1 J Xenon tube						cont.			88	120 V AC	60	+/- 10%		0,040	710 12C 210			
													230 V AC	50			0,025	710 12C 113			
													92	12 V DC				0,300	710 12C 004		
24 V DC							0,170	710 12C 005													
KDF						Mini horn-strobe beacon without cone	1 J Xenon tube			cont.	88			120 V AC		60	+/- 10%	0,040	710 02C 210		
														230 V AC		50		0,025	710 02C 113		
	92	12 V DC		0,300	710 02C 004																
		24 V DC		0,170	710 02C 005																



Order data

Type	Denomination	Light Source	Tone options		Nominal Voltage (V)	Voltage Range (V)	Order No.	
			Tone types	Sound pressure (dB)			Housing black	Price
VS4	Strobe beacon-signalising sounder	3 J Xenon tube	two/three tones	95	230 V AC	+/- 10%	410 40C 005	



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

ELG - EDG

ELM - EDM



ELG - EDG

ELM - EDM

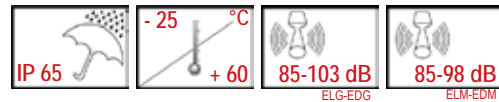
Ø 65 mm

Ø 45 mm



Features

- versatile M22 panel mount buzzers with LED control light
- 2 sizes - Ø 65 - 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 mm or 30,5 mm bore holes (with adapter)



LED Flashing Beacon-Electronic Multitone Siren CS1

CS1



Features

- cost-effective LED flashing beacon-electronic multitone siren
- 32 tone options
- second stage alarm
- lens colours amber, red, clear, blue





Order data

Type	Denomination	Light Source	Nominal Voltage (V)	Voltage Range (V)	Nominal Current (A)	Order No.		Price
						Housing grey	Housing black	
Tone and light synchronized								
ELG (65 mm Ø)	Panel mount buzzer-LED steady/flashing beacon amber, red, yellow	LED	24 V AC/DC	+/- 10%	0,047	814 11C 405	814 51C 405	
			230/240 V AC		0,063	814 11C 313	814 51C 313	
	Panel mount buzzer-LED steady/flashing beacon clear, blue, green		24 V AC/DC		0,047	814 11C 405	814 51C 405	
			230/240 V AC		0,063	814 11C 313	814 51C 313	
ELM (45 mm Ø)	Panel mount buzzer-LED steady/flashing beacon amber, red, yellow		24 V AC/DC		0,058	813 11C 405	813 51C 405	
			230/240 V AC		0,040	813 11C 313	813 51C 313	
	Panel mount buzzer-LED steady/flashing beacon clear, blue, green		24 V AC/DC		0,058	813 11C 405	813 51C 405	
			230/240 V AC		0,040	813 11C 313	813 51C 313	
Tone and light separately switchable								
EDG (65 mm Ø)	Panel mount buzzer-LED steady/flashing beacon amber, red, yellow	LED	24 V AC/DC	+/- 10%	0,095	814 12C 405	814 52C 405	
			230/240 V AC		0,052	814 12C 313	814 52C 313	
	Panel mount buzzer-LED steady/flashing beacon clear, blue, green		24 V AC/DC		0,095	814 12C 405	814 52C 405	
			230/240 V AC		0,052	814 12C 313	814 52C 313	
EDM (45 mm Ø)	Panel mount buzzer-LED steady/flashing beacon amber, red, yellow		24 V AC/DC		0,073	813 12C 405	813 52C 405	
			230/240 V AC		0,051	813 12C 313	813 52C 313	
	Panel mount buzzer-LED steady/flashing beacon clear, blue, green		24 V AC/DC		0,073	813 12C 405	813 52C 405	
			230/240 V AC		0,051	813 12C 313	813 52C 313	

NOTE: ▶ additional voltages available

Accessories

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



Order data

Type	Denomination	Light Source	Tone options		Nominal Voltage (V)	Voltage Range (V)	Order No.		Price
			Tone types	Sound pressure (dB)			Housing red	Housing white	
CS1	LED flashing beacon-electronic multitone siren amber, red	LED	32	88-109	24 V DC	18-35	C111 62C 005	C111 22C 005	
	LED flashing beacon-electronic multitone siren clear, blue						C111 62C 005	C111 22C 005	

NOTE: ▶ tone table: www.auer-signal.com



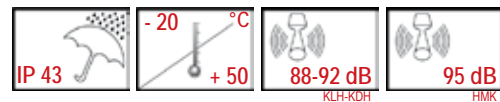
Mini Horns KLH - KDH, HMK

KLH, KDH, HMK



Features

- ▶ electromechanical horns in smaller design
- ▶ for universal audible applications
- ▶ models with (KLH) or without cone (KDH, HMK)
- ▶ attractive price-performance ratio
- ▶ wide voltage range
- ▶ special lift-alarm models with reduced nominal current



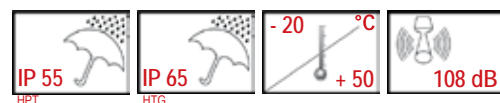
Signal Horns HPT - HTG

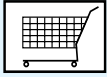
HPT - HTG



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.)





Order data

Type	Denomination	Tone options		Nominal Voltage (V)	Hz	Voltage Range (V)	Nominal Current (A)	Order No.		Price
		Tone types	Sound press. (dB)					Housing grey		
KLH	Mini horn with cone	continuous	88	24 V AC	50	+/- 10%	0,080	710 100 105		
				48 V AC	50		0,050	710 100 108		
				230 V AC	50		0,010	710 100 113		
			92	12 V DC			0,120	710 100 004		
				24 V DC			0,060	710 100 005		
				48 V DC			0,030	710 100 008		
				220 V DC			0,007	710 100 013		
KDH	Mini horn with cone	continuous	88	24 V AC	50	+/- 10%	0,020	710 000 105		
				48 V AC	50		0,050	710 000 108		
				230 V AC	50		0,010	710 000 113		
			92	12 V DC			0,120	710 000 004		
				24 V DC			0,060	710 000 005		
				48 V DC			0,030	710 000 008		
				220 V DC			0,007	710 000 013		
KDH-L	Lift alarm	continuous	92	6 V DC		+/- 10%	0,065	710 030 003		
HMK	Mini horn without cone	continuous	95	24 V AC	50	+/- 10%	0,080	711 000 105		
				48 V AC	50		0,050	711 000 108		
				230 V AC	50		0,010	711 000 113		
			95	12 V DC			0,120	711 000 004		
				24 V DC			0,060	711 000 005		
				48 V DC			0,030	711 000 008		
				220 V DC			0,007	711 000 013		

NOTE: ▶ additional voltages available



Order data

Type	Denomination	Tone options		Nominal Voltage (V)	Hz	Voltage Range (V)	Nominal Current (A)	Order No.		Price
		Tone types	Sound press. (dB)					Housing grey		
HPT	Signal horn	continuous	108	12 V AC	50	+/- 10%	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		
				120 V AC	60		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		
HTG	Signal horn	continuous	108	12 V AC	50	+/- 10%	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		
				120 V AC	60		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		
HTG-L	Signal horn with RILSAN coating	continuous	108	230 V AC	50	+/- 10%	0,100	713 150 113		
				120 V AC	60		0,200	713 150 211		
				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		

NOTE: ▶ additional voltages available



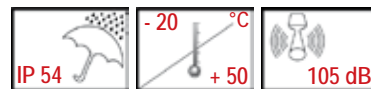
Bells UWS - FWS

UWS - FWS



Features

- loud bells for universal or fire alarm
- typical bell tone
- 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



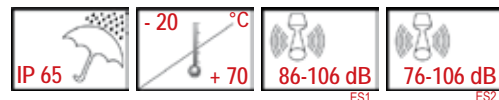
Electronic Multitone Sirens ES1 - ES2

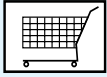
ES1 - ES2



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





Order data

Type	Denomination	Tone options		Nominal Voltage (V)	Hz	Voltage Range (V)	Nominal Current (A)	Order No.		Price
		Tone types	Sound press. (dB)					Housing grey	Housing red	
UWS FWS	Signal bell	continuous	105	12 V AC	50-60	+/- 10%	0,800	720 000 304	720 200 304	
				24 V AC			0,400	720 000 305	720 200 305	
				48 V AC			0,200	720 000 308	720 200 308	
				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	
				48 V DC			0,200	720 000 008	720 200 008	
				220 V DC			0,050	720 000 013	720 200 013	
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



Order Data

Type	Denomination	Tone options		Nominal Voltage (V)	Voltage Range (V)	Nominal Current (A)	Order No.		Price
		Tone types	Sound press. (dB)				Housing red	Housing white	
ES1	Multitone siren	32	<106	24 V DC	15-35	0,009-0,036	C110 620 005	C110 220 005	
ES2		32	<106	110-230VAC	+/- 10%	0,012	C115 600 113	C115 200 113	

NOTE: ▶ tone table: www.auer-signal.com



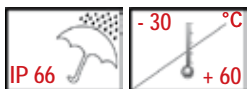
Multi-Tone Alarm Sounders „A“

Size 1	Size 2	Size 3	Size 4
H = 94 mm	H = 132 mm	H = 183 mm	H = 228 mm
ASS-P ASS-T	ASM	ASL	ASX
 <103 dB	 <106 dB	 <113 dB	 <120 dB
8 Tones 32 Tones	32 Tones	63 Tones	63 Tones

Scheduled availability:
Size 1 and Size 2 in June 2011
Size 3 and Size 4 in September 2011

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)



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 selection via dip switch
volume control by potentiometer (sizes 1-3)
- flat gaskets for correct IP66 installation on smooth surfaces (accessory type AG1-AG4)
- mounting kit AMK (for mounting/combination of 2 or more same size sounders or beacons)



Order data





















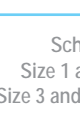



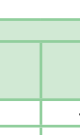




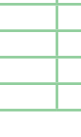







Type	Denomination	Max. Sound pressure (dB A)	Nominal voltage (V)	Voltage range (V)	Nominal current (A)	Order No. Housing red	Price
ASS-P	Multi-tone alarm sounder size 1, 8 tones	103	24 V AC/DC	+/- 10%	0,025	874 060 405	
			48 V AC/DC		0,020	874 060 408	
			230/240 V AC		0,020	874 060 313	
ASS-T	Multi-tone alarm sounder size 1, 32 tones	106	24 V AC/DC	+/- 10%	0,150	874 160 405	
			48 V AC/DC		0,100	874 160 408	
			230/240 V AC		0,015	874 160 313	
ASM	Multi-tone alarm sounder size 2, 32 tones	113	24 V AC/DC	+/- 10%	0,150	874 260 405	
			48 V AC/DC		0,100	874 260 408	
			230/240 V AC		0,015	874 260 313	
ASL	Multi-tone alarm sounder size 3, 63 tones	120	24-48 V AC/DC	+/- 10%	0,550	874 360 408	
			230/240 V AC		0,075	874 360 313	
ASX	Multi-tone alarm sounder size 4, 63 tones	127	24-48 V AC/DC	+/- 10%	1,100	874 460 408	
			230/240 V AC		0,150	874 460 313	

Accessories









Type	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	





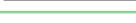

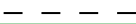


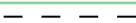
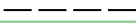







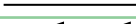
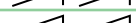












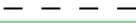

























Overview Multi-Tone Alarm Sounders „A“ / Beacons „Q“

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-P + QDS LED Steady/Flashing ASS-P + QFS ~5 J Xenon Strobe 	ADS-P LED Steady/Flashing 	QSS LED Steady/Flashing 	QDS LED Steady/Flashing 
	ASS-T ~106 dB 	ASS-T + QDS LED Steady/Flashing ASS-T + QFS ~5 J Xenon Strobe 	ADS-T LED Steady/Flashing 	QTS ~5 J Xenon Strobe 	QFS ~5 J Xenon Strobe 
2	ASM ~113 dB 	ASM + QDM LED Steady/Flashing 	ADM LED Steady/Flashing 	QSM LED Steady/Flashing 	QDM LED Steady/Flashing 
		ASM + QFM ~10 J Xenon Strobe 	ACM LED Strobe 	QTM ~10 J Xenon Strobe 	QFM ~10 J Xenon Strobe 
3	ASL ~120 dB 	ASL + QDL LED Steady/Flashing 	ADL LED Steady/Flashing 	QSL LED Steady/Flashing 	QDL LED Steady/Flashing 
		ASL + QBL LED Strobe 	ACL LED Strobe 	QCL LED Strobe 	QBL LED Strobe 
4	ASX ~127 dB 	ASX + QDX LED Steady/Flashing 	ADX LED Steady/Flashing 	QSX LED Steady/Flashing 	QDX LED Steady/Flashing 
		ASX + QBX LED Strobe 	ACX LED Strobe 	QCX LED Strobe 	QBX LED Strobe 

Scheduled availability:
 Size 1 and Size 2 in June 2011
 Size 3 and Size 4 in September 2011

Tone table ASS-P						
STAGE 1 S1	Tone type	Frequency Hz	Pictogram	Repeat rate	Specific application	max dB
Tone 01	continuous	3600 Hz				
Tone 02	continuous	1600 Hz				
Tone 03	intermittent	3600 Hz		250ms on, 250ms off		
Tone 04	intermittent	1600 Hz		250ms on, 250ms off		
Tone 05	sweeping	1200 - 500 Hz		1 Hz	evacuation Germany, DIN 33404-3	
Tone 06	sweeping	500 - 1200 Hz		rising in 3 s, 0,5 s off	Netherlands NEN 2575:2000	
Tone 07	alternating	800 - 1000 Hz		2 Hz		
Tone 08	sweeping	500 - 1500 Hz		10 Hz		

At the time of printing of this brochure a few values were not yet available; please check on www.auer-signal.com or contact AUER or the responsible AUER representative.

Tone table							ASS-T	ASM	ASL	ASX	STAGE 2	STAGE 3
STAGE 1	Tone type	Frequency Hz	Pictogram	Repeat rate	Specific application	max dB	max dB	max dB	max dB	S2	S3	
Tone 01	continuous	660 Hz			Swedish alarm					tone 16	tone 12	
Tone 02	continuous	1000 Hz			PFEER toxic gas					tone 16	tone 25	
Tone 03	continuous	2400 Hz								tone 21	tone 17	
Tone 04	intermittent	420 Hz		0,625 s on / 0,625 s off	Australian alert AS1670					tone 21	tone 01	
Tone 05	intermittent	660 Hz		1,8 s on - 1,8 s off	Swedish alarm					tone 21	tone 01	
Tone 06	intermittent	660 Hz		0,15 s on / 0,15 s off	Swedish alarm					tone 16	tone 01	
Tone 07	intermittent	970 Hz		1 s on, 1 sec off	PFEER Alarm, BS5839-1:2002					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					tone 16	tone 03	
Tone 09	intermittent	800 Hz		0,25 s on / 1 s off						tone 27	tone 03	
Tone 10	intermittent	700 Hz		0,15 s on / 0,15 s off, total 1 min.	Swedish alarm SS 031711					tone 18	tone 02	
Tone 11	intermittent	720 Hz		0,7 s on / 0,3 s off	Industrial Alarm Germany					tone 02	tone 29	
Tone 12	intermittent	2400 Hz		0,5 s on / 0,5 s off						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					tone 03	tone 17	
Tone 14	alternating	440 - 554 Hz		0,4 s (440Hz) / 0,1 s (554Hz)	AFNOR France, NFS 32-001					tone 16	tone 01	
Tone 15	alternating	554 - 440 Hz		1 Hz	Swedish alarm					tone 01	tone 16	
Tone 16	alternating	800 - 1000 Hz		2 Hz						tone 02	tone 09	
Tone 17	alternating	2400 - 2900 Hz		2 Hz						tone 03	tone 01	
Tone 18	alternating	1000 - 2000 Hz		1 Hz	Singapore					tone 02	tone 03	
Tone 19	sweeping	500 - 1500 Hz		10 Hz						tone 2	tone 1	
Tone 20	sweeping	150 - 1000 Hz		rising 10 s, 40 s on, falling 10 s	Industrial Alarm Germany					tone 01	tone 29	
Tone 21	continuous	400 Hz		simulated horn						tone 16	tone 02	
Tone 22	sweeping	500 - 1200 Hz		rising in 3,75 s/ 0,25 s off	Australian evacuation AS 2220					tone 02	tone 09	
Tone 23	sweeping	500 - 1200 Hz		rising in 3,5 s/ 0,5 s off	Netherlands NEN 2575:2000					tone 02	tone 09	
Tone 24	sweeping	500 - 1200 Hz		0,5 s on/0,5 s off x 3 / 1,5 s off	Australia AS1670 evacuation					tone 02	tone 09	
Tone 25	sweeping	1200 - 500 Hz		1 Hz	evacuation Germany, DIN 33404-3					tone 02	tone 32	
Tone 26	sweeping	500 - 1200 Hz		0,3 Hz						tone 01	tone 32	
Tone 27	sweeping	1400 - 1600 Hz		rising in 1 s/falling in 0,5 s	NFC 48-265					tone 02	tone 09	
Tone 28	sweeping	2400 - 2900 Hz		1 Hz						tone 17	tone 03	
Tone 29	bell									tone 16	tone 02	
Tone 30	slow rise	500 - 2400 Hz		siren rising in 3 s, then cont. 2400 Hz						tone 16	tone 01	
Tone 31	slow rise	300 - 1200 Hz		siren rising in 3 s, then cont. 1200 Hz						tone 16	tone 01	
Tone 32	chime	970 - 800 Hz		repeating ding-dong, 1 Hz						tone 29	tone 01	
Tone 33	continuous	340 Hz				X	X			tone 16	tone 03	
Tone 34	continuous	500 Hz				X	X			tone 16	tone 03	
Tone 35	continuous	825 Hz				X	X			tone 16	tone 03	
Tone 36	continuous	1500 Hz				X	X			tone 18	tone 02	
Tone 37	continuous	2850 Hz				X	X			tone 21	tone 01	
Tone 38	intermittent	660 Hz		0,5 s on - 0,5 s off	Swedish alarm	X	X			tone 02	tone 32	
Tone 39	intermittent	680 Hz		0,875 s on-0,675 s off		X	X			tone 03	tone 32	
Tone 40	intermittent	950 Hz		1 s on, 1 s off		X	X			tone 02	tone 32	
Tone 41	intermittent	1000 Hz		1 s on-1 s off	PFEER General Alarm	X	X			tone 16	tone 03	
Tone 42	intermittent	800 Hz		4 ms on, 4 ms off		X	X			tone 58	tone 03	
Tone 43	intermittent	825 Hz		0,5 s on, 0,5 s off		X	X			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			tone 17	tone 02	
Tone 45	alternating	440 - 554 Hz		1 Hz		X	X			tone 16	tone 01	
Tone 46	alternating	825 - 1075 Hz		1 Hz		X	X			tone 48	tone 02	
Tone 47	alternating	825 - 1025 Hz		2 Hz		X	X			tone 48	tone 03	
Tone 48	alternating	2500 - 3100 Hz		0,5 Hz		X	X			tone 60	tone 03	
Tone 49	alternating	2400 - 2850 Hz		2 Hz		X	X			tone 12	tone 03	
Tone 50	alternating	500 - 900 Hz		2 Hz		X	X			tone 41	tone 02	
Tone 51	alternating	1200 - 1400 Hz		25 Hz		X	X			tone 41	tone 02	
Tone 52	sweeping	300 - 1200 Hz		1 Hz		X	X			tone 03	tone 32	
Tone 53	sweeping	500 - 1000 Hz		0,15 Hz		X	X			tone 41	tone 02	
Tone 54	sweeping	500 - 1200 Hz		3 Hz		X	X			tone 41	tone 02	
Tone 55	sweeping	700 - 1500 Hz		0,3 Hz		X	X			tone 16	tone 02	
Tone 56	sweeping	800 - 1000 Hz		7 Hz		X	X			tone 16	tone 02	
Tone 57	sweeping	800 - 1000 Hz		50 Hz		X	X			tone 16	tone 02	
Tone 58	sweeping	2400 - 2900 Hz		7 Hz		X	X			tone 17	tone 03	
Tone 59	sweeping	2400 - 2900 Hz		50 Hz		X	X			tone 17	tone 03	
Tone 60	sweeping	2400 - 2900 Hz		3 Hz		X	X			tone 17	tone 03	
Tone 61	slow rise	0 - 800 Hz		siren rising in 3 s, then cont. 800 Hz		X	X			tone 16	tone 01	
Tone 62	chime	554 - 440 Hz		repeating ding-dong, 1Hz		X	X			tone 29	tone 01	
Tone 63	chime	554 - 440 Hz		single ding-dong		X	X			tone 29	tone 01	



Electronic Sounder EHS - EHF - EHL

EHS - EHF - EHL



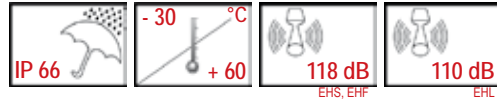
EHS

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



Elektronic Sounder HTV

HTV



Features

- loud electronic sounders - up to 113 dB
- 15 different tone types, additionally individual adjustment of lower/upper frequencies, speed and volume by potentiometer
- tone selection by DIP switch



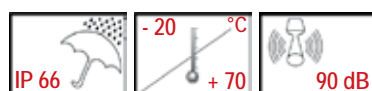
Audible Signalling Sounder AS4

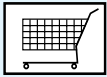
AS4



Features

- 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





Order data

Type	Denomination	Tone options		Nominal Voltage (V)	Voltage Range (V)	Nominal Current (A)	Order No.		Price	
		Tone types	Sound press. (dB)				Type D	Type K		
EHS	Electronic sounder with swiveling loudspeaker	15	118	12-24 V AC/DC	+/- 10%	0,470-0,940	731 010 405	731 020 405		
				230/240 V AC		0,060	731 010 313	731 020 313		
EHF	Electronic sounder with fixed loudspeaker			12-24 V AC/DC		0,470-0,940	731 110 405	731 120 405		
				230/240 V AC		0,060	731 110 313	731 120 313		
EHL	Electronic sounder with short loudspeaker			110		12-24 V AC/DC	0,470-0,940	730 010 405	730 020 405	
						230/240 V AC	0,060	730 010 313	730 020 313	

NOTE:
 ▶ additional voltages available
 ▶ tone table: www.auer-signal.com



Order data

Type	Denomination	Tone options		Nominal Voltage (V)	Voltage Range (V)	Nominal Current (A)	Order No.		Price
		Tone types	Sound pressure (dB)				Housing grey	Housing black	
HTV	Electronic sounder	15	113	12-24 V AC/DC	+/- 10%	0,580-0,970	873 100 405	873 500 405	
				230/240 V AC		0,070	873 100 313	873 500 313	

NOTE:
 ▶ additional voltages available
 ▶ tone table: www.auer-signal.com



Order data

Type	Denomination	Tone options		Nominal Voltage (V)	Voltage Range (V)	Nominal Current (A)	Order No.	Price
		Tone types	Sound pressure (dB)				Housing black	
AS4	Signalling sounder	4	90	110-230 V AC	+/- 10%	0,016	410 400 004	



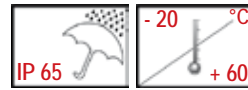
M22 Panel Mount Buzzer ESG - ESM - ESK - ESV

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 mm oder 30,5 mm bore holes (with adapter)



M28 Panel Mount Buzzer ESD - ESP - ESZ

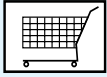
ESD - ESP - ESZ



Features

- 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





Order data

Type	Denomination	Tone options		Nominal Voltage (V)	Voltage Range (V)	Nominal Current (A)	Order No.		Price
		Tone types	Sound pressure (dB)				Housing grey	Housing black	
ESG	M22 panel mount buzzer	3	<85-105	12-24 V AC/DC	8-24	0,057	814 100 405	814 500 405	
				230/240 V AC	150-260	0,044	814 100 313	814 500 313	
ESM	M22 panel mount buzzer	2	<85-100	12-24 V AC/DC	8-24	0,019	813 100 405	813 500 405	
				230/240 V AC	150-260	0,040	813 100 313	813 500 313	
ESK	M22 panel mount buzzer	2	65-70	12-24 V AC/DC	10-24	0,046	812 100 405	812 500 405	
				230/240 V AC	150-260	0,020	812 100 313	812 500 313	
ESV	M22 panel mount buzzer	2	80-85	12-24 V AC/DC	10-24	0,046	812 110 405	812 510 405	
				230/240 V AC	150-260	0,020	812 110 313	812 510 313	

NOTE: ▶ additional voltages available

Accessories

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



Order data

Type	Denomination	Tone options		Nominal Voltage (V)	Voltage Range (V)	Nominal Current (A)	Order No.		Price
		Tone types	Sound pressure (dB)				Housing grey	Housing black	
ESD	M28 panel mount buzzer	continuous	90	24 V AC/DC	4-40	0,020	810 000 405	810 100 405	
				230/240 V AC	30-250		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	
				230/240 V AC	30-250		811 000 313	811 100 313	
ESZ-S	M28 panel mount buzzer	continuous	90	24 V AC/DC	6-28	0,020	809 000 405	809 100 405	
				230/240 V AC	50-250		809 000 313	809 100 313	
ESZ-K	M28 panel mount buzzer	continuous and pulsing	90	24 V AC/DC	6-28	0,020	809 010 405	809 110 405	
				230/240 V AC	50-250		809 010 313	809 110 313	

NOTE: ▶ additional voltages available



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



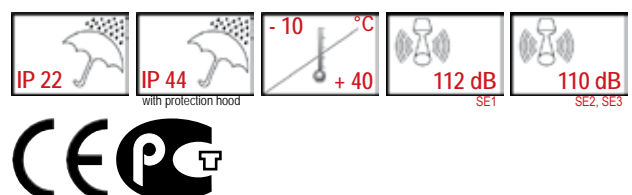
Motor Sirens SE1 - SE2 - SE3

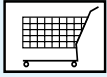
SE1 – SE2 – SE3



Features

- ▶ typical and penetrating siren tone with 360° audibility
- ▶ optional protection hood for outdoor applications
- ▶ air inlet and sound outlet protected against accidental touching





Order data

Type	Denomination	Tone options		Nominal Voltage (V)	Voltage Range (V)	Nominal Current (A)	Order No.	Price
		Tone types	Sound pressure (dB)				Housing black	
BU2	M28 panel mount buzzer	pulsing	90	12 V AC/DC	6-16	0,020	B100 520 404	
				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	



Order data

Type	Denomination	Tone options		Nominal Voltage (V)	Voltage Range (V)	Nominal Current (A)	Order No.	Price
		Tone types	Sound pressure (dB)				Housing black	
BU1	Surface mount buzzer - electronic siren	pulsing	108	12 V DC	6-15	0,30	B100 510 004	
				24 V DC	12-28		B100 510 005	



Order data

Type	Denomination	Sound pressure (dB)	Nominal Voltage (V)	Voltage Range (V)	Nominal Current (A)	Starting Current (A)	Order No.	Price
							Housing dark grey	
SE1	Motor siren	112	24 V AC/DC	+/- 10%	5,200	21,000	593 003 405	
			230 V AC/DC		0,600	2,400	593 004 413	
SE2	Motor siren	110	24 V AC/DC	+/- 10%	7,200	25,000	593 005 405	
			230 V AC/DC		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



Explosion-Proof Telephone dST

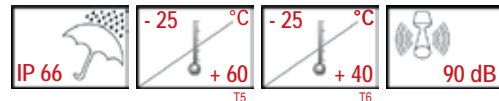
dST



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 alphanumeric 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

Features

- 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





Order data

Type	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

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



Explosion-Proof Visual Audible Telephone Call Signalling Sounder VS1

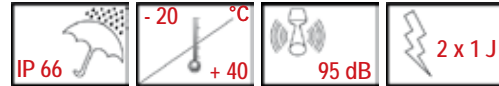
VS1



II 2 G Ex mb e [ib] IIC T6
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

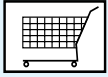


II 2 G EEx ib IIC T5/T6
II 2 D Ex ibD 21 T100°C/T80°C
-25°C ≤ Ta ≤ +40°C/+60°C
Zone 1, 2, 21, 22

Features

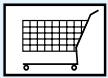
- explosion-proof loudspeaker enables loud rendition of ringer sound and of receiving signal in operating modes „open listening“ and „handsfree“
- volume adjustable with +/- keys on the ExSafeTel
- set contents:
dynamic loudspeaker in plastic housing with cable gland, cable gland is located in connection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





Order data

Type	Denomination	Light Source	Tone options		Nominal Voltage (V)	Voltage Range (V)	Order No.	Price
			Tone types	Sound pressure (dB)				
VS1	Explosion-proof visual-audible telephone call signalling sounder	2 x 1 J Xenon tube	3	95	230 V AC	+/- 10%	410 10C 005	



Order data

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



Explosion-Proof Additional Earpiece EP1

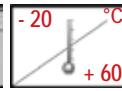
EP1



II 2 G EEx ia IIC T6
II 2 D IP54 T80 °C
-25 °C ≤ Ta ≤ +60 °C
Zone 1, 2

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



Explosion-Proof Headset Kit HS1

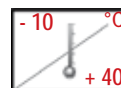
HS1

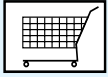


II 2 G EEx ib IIC T4
Nemko 02ATEX059X
Zone 1, 2

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





Order data

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



Order data

Type	Denomination	Order No.	Price
HS1	Explosion-proof headset kit	410 100 001	



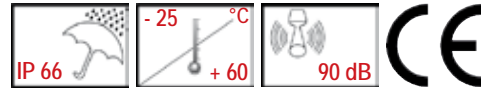
Weatherproof Telephone wST

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



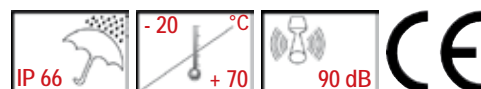
Audible Telephone Call Signalling Sounder AS2

AS2



Features

- ▶ 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





Order data

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



Order data

Type	Denomination	Tone options		Order No.	Price
		Tone types	Sound pressure (dB)		
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



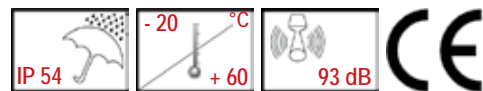
Loudspeaker Set LS2

LS2



Features

- ▶ 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





Order data

Type	Denomination	Light Source	Tone options		Nomimal Voltage (V)	Voltage Range (V)	Order No.	Price
			Tone types	Sound pressure (dB)				
VS2	Visual-audible telephone call signalling sounder	3 J Xenon tube	4	95	230 V AC	+/- 10%	410 200 005	



Order data

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



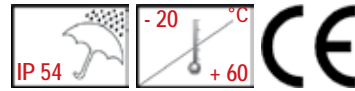
Additional Earpiece EP2

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



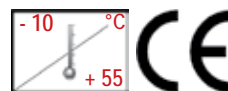
Headset Kit HS2

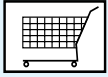
HS2



Features

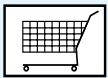
- ▶ headset eases significantly a telephone conversation in loud ambient conditions
- ▶ protects against ambient noise
- ▶ allows telephone calls while both hands need to be free
- ▶ set contents:
 - headset, 14 m long connecting cord
 - cable gland, bracket and screws to hang up connecting cord and headset





Order data

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



Order data

Type	Denomination	Order No.	Price
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



II 3 G Ex nAnL IIC T5
II 3 D Ex tD A22 IP65 T80 °C
Zone 2, 22

Weatherproof Telephone wFT3 FernTel 3

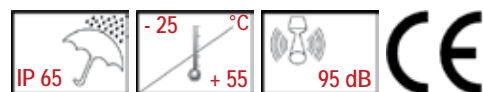
wFT3

FernTel 3



Features

- 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





Order data

Type	Denomination	Order No.	Price
dFT3	FernTel 3 zone 2 explosion-proof telephone with display and spiral cord	410 400 C00	
	FernTel 3 zone 2 explosion-proof telephone without display, with spiral cord	410 410 C00	
	FernTel 3 zone 2 explosion-proof telephone with display and armoured cord	410 420 C00	
	FernTel 3 zone 2 explosion-proof telephone without display, with armoured cord	410 430 C00	
	Stabilizer bracket	410 400 900	



Order data

Type	Denomination	Order No.	Price
wFT3	FernTel3 weatherproof telephone with display and spiral cord	410 300 C00	
	FernTel3 weatherproof telephone without display, with spiral cord	410 310 C00	
	FernTel3 weatherproof telephone with display and armoured cord	410 320 C00	
	FernTel3 weatherproof telephone without display, with armoured cord	410 330 C00	
wFT3Z	FernTel3 weatherproof telephone without keypad, with armoured cord	410 340 C00	
	Stabilizer bracket	410 400 900	

Colour code for telephones

0	black	2	black/red
1	black/yellow	3	black/grey



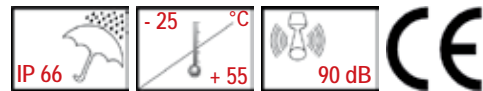
Weatherproof Telephone wIND „INDUSTRY“

wIND



Features

- well designed weatherproof telephone for industrial and general applications
- for out- and indoor use with tough operating demands (eg. 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



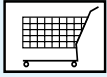
Telephone protection hoods TH1

TH1



Features

- telephone protection hoods for better audibility of telephone conversations in noisy environments available in materials
- 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



Order data

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



Order data

Type	Denomination	Weight	Order No.	Price
	Telephone protection hoods - GRP			
TH1	Telephone protection hood yellow (~ RAL 1023)	~ 40 kg	410 100 008	
	Telephone Protection hood orange (~ RAL 2000)	~ 40 kg	410 100 007	
	Telephone protection hoods - synthetic (PVC)			
TH1	Telephone protection hood yellow (~ RAL 1023)	~ 30 kg	410 100 012	
	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			
TH1	Telephone protection hood type yellow (~ RAL 1023)	~ 35 kg	410 100 006	
	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



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



II 2 G Ex e mb II T5
 -20 °C ≤ Ta ≤ +50 °C (AC-Mod.)
 -20 °C ≤ Ta ≤ +60 °C (DC-Mod.)
 II 2 G Ex e mb II T4
 -20 °C ≤ Ta ≤ +70 °C
 Zone 1, 2

Ex-proof Signal Horn dHH - dHHR

dHH - dHHR



Features

- loud signal horns and bells 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
- reduction weight - robust and corrosion proof design
- insulation class II - no equipotential bonding required
- models with telephone call current relay available



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



Order data

Type	Denomination	Nominal voltage (V)	Nominal current (A)	Order No.	Price
	Design temperature range T4				
mHPT	Ex-proof signal horn	24 V DC	0,3	301 000 005	
		115 V AC	0,15	301 000 110	
		230 V AC	0,07	301 000 113	
	Design temperature range T5				
mHPT	Ex-proof signal horn	24 V DC	0,3	301 100 005	
		115 V AC	0,15	301 100 110	
		230 V AC	0,07	301 100 113	



Order data

Type	Denomination	Tone options		Nominal voltage (V)	Hz	Voltage Range (V)	Nominal Current (A)	Order No.	Price
		Tone types	Sound press. (dB)					Housing grey/black	
dHH	Ex-proof signal horn	continuous	105	24 V AC	50	+10% / -15%	0,650	300 000 105	
				48 V AC	50		0,350	300 000 108	
				120 V AC	60		0,150	300 000 213	
				230 V AC	50		0,070	300 000 113	
				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	



Ex-proof Signal Bell dHW - dHWR

dHW - dHWR



II 2 G Ex de IIC T6
II 2 D Ex tD A21 IP66 T80°C
-20°C ≤ Ta ≤ +40°C
Zone 1, 2, 21, 22

Features

- loud signal horns and bells 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
- reduction weight - robust and corrosion proof design
- insulation class II - no equipotential bonding required
- models with telephone call current relay available



Ex-proof Loudspeaker dHS

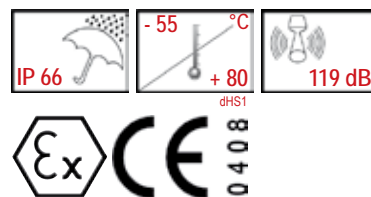
dHS



II 2 G Ex demb IIC T4/T5/T6
II 2 D Ex tD A21 IP66 T130°C/T95°C/T80°C
T4 -55°C ≤ Ta ≤ +80°C
T5 -55°C ≤ Ta ≤ +65°C
T6 -55°C ≤ Ta ≤ +55°C
Zone 1, 2, 21, 22

Features

- 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





Order data

Type	Denomination	Tone options		Nominal Voltage (V)	Hz	Voltage Range (V)	Nominal Current (A)	Order No.	Price
		Tone types	Sound press. (dB)					Housing grey/black	
dHW	Ex-proof signal bell	continuous	105	24 V AC	50	+10% / -15%	0,320	320 000 105	
				48 V AC	50		0,300	320 000 108	
				120 V AC	60		0,180	320 000 213	
				230 V AC	50		0,055	320 000 113	
				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	continuous	105	230 V AC	50	+10% / -15%	0,055	320 100 113	

NOTE: ▶ additional voltages available



Order data

Type	Denomination	Power (W)	Temperature Range	Order No.	Price
				Housing black	
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



II 2 G Ex d e mb IIC T6
Zone 1, 2

Ex-proof Audible Signalling Sounder AS3

AS3

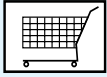


Features

- 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



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



Order data

Type	Denomination	Tone Options		Nominal Voltage (V)	Nominal Current (A)	Order No.	Price
		Tone types	Sound pressure (dB)			Housing grey/black	
dHE1	Ex-proof electronic sounder	31	119	85-265 V AC, 50-60 Hz	0,100 (230 V AC)	370 000 000	
dHE2				21,6-75 V DC			



Order data

Type	Denomination	Tone options		Order No.	Price
		Tone types	Sound pressure (dB)		
AS3	Ex-proof audible signalling sounder	4	90	410 300 004	



Ex-proof Strobe Beacon dHF

dHF



II 2 G Ex d e IIC T5/T6
II 2 D Ex tD A21 IP66 T95 °C/T80 °C
-20°C ≤ Ta ≤ +75°C/+40°C
Zone 1, 2, 21, 22

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

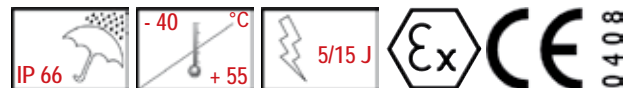
dSF



II 2 G Ex de IIC T5/T6
II 2 D Ex tD A21 IP66 T95 °C/T80 °C
-40°C ≤ Ta ≤ +55°C/+40°C
Zone 1, 2, 21, 22

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“
- sturdy aluminium housing, coated or powder coated
- hardened glass lens
- 15 J model with protection cage made of stainless steel
- 5 lens colours: amber, clear, red, blue, green
- compact dimensions - can also be built in





Order data

Type	Denomination	Strobe energy (J)	Nominal Voltage (V)	Voltage Range (V)	Nominal Current (A)	Order No.	Price
						Housing grey/black	
dHF1	Ex-proof strobe beacon	15	230/240 V AC 50-60 Hz	207-253	0,200	340 00C 413	
		5	230/240 V AC 50-60 Hz	207-253	0,130	340 10C 413	
dHF2		15	24 V DC	21-53	1,000	340 00C 005	
		5	24 V DC	21-53	0,280	340 10C 005	

NOTE: ▶ additional voltages available



Order data

Type	Denomination	Strobe energy (J)	Nominal Voltage (V)	Voltage Range (V)	Nominal Current (A)	Order No.	Price
						Housing yellow/blue	
dSF1	Ex-proof strobe beacon	15	230/240 V AC 50-60 Hz	207-253	0,200	335 00C 413	
		5	230/240 V AC 50-60 Hz	207-253	0,130	335 10C 413	
dSF2		15	24 V DC	21-53	1,000	335 00C 005	
		5	24 V DC	21-53	0,280	335 10C 005	

NOTE: ▶ additional voltages available



Ex-proof LED Signal Beacon mDD

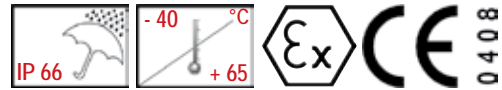
mDD



II 2 G Ex e mb (ib) IIC T4
 -40 °C ≤ Ta ≤ +60 °C (AC-Mod.)
 -40 °C ≤ Ta ≤ +65 °C (DC-Mod.)
 II 2 D Ex mbD tD A21 IP 66 T130 °C
 Zone 1, 21, 2, 22

Features

- LED signal beacon for zones 1, 21, 2 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

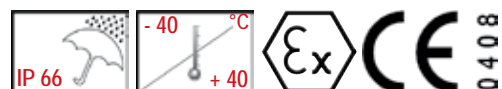
dSD

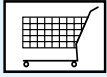


II 2 G Ex de IIC T6
 II 2 D Ex tD A21 IP66 T80 °C
 -40 °C ≤ Ta ≤ +40 °C
 Zone 1, 2, 21, 22

Features

- 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: amber, clear, red, blue, green
- flameproof chamber „d“ – terminal connection chamber in protection class increased safety „e“





Order data

Type	Denomination	Nominal voltage (V)	Voltage Range (V)	Order No.	Price
mDD1	Ex-proof LED signal beacon	230 V AC	+/- 20%	336 00C 413	
mDD2	Ex-proof LED signal beacon	24 V DC		336 00C 005	

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



Order data

Type	Denomination	Nominal Voltage (V)	Voltage Range (V)	Nominal current (A)						Order No.	Price
				Operating mode	red	yellow	green	blue	clear		
dSD1	Ex-proof LED signal beacon without protection cage	110 - 240 V AC	85 - 265 V AC	steady light	0,125	0,125	0,160	0,170	0,170	335 20C 313	
				flashing light	0,125	0,125	0,160	0,170	0,170		
	Ex-proof LED signal beacon with protection cage			strobe light	1,800	1,800	1,210	1,230	1,230	335 21C 313	
				rotating 1	0,060	0,060	0,065	0,070	0,070		
				rotating 2	0,070	0,070	0,080	0,085	0,085		
dSD2	Ex-proof LED signal beacon without protection cage	24 V DC	+/- 20%	steady light	0,550	0,570	0,800	0,850	0,870	335 20C 005	
				flashing light	0,550	0,570	0,800	0,850	0,870		
	Ex-proof LED signal beacon with protection cage			strobe light	1,200	1,200	1,500	1,500	1,600	335 21C 005	
				rotating 1	0,190	0,190	0,250	0,250	0,280		
				rotating 2	0,250	0,250	0,350	0,350	0,380		



Ex-proof Rotating Signal Beacon dHR

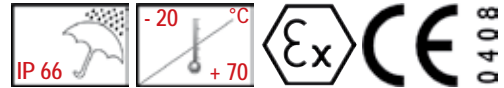
dHR



II 2 G Ex d e IIC T5/T6
II 2 D Ex tD A21 IP66 T95 °C/T80 °C
-20°C ≤ Ta ≤ +70°C/+40°C
Zone 1, 2, 21, 22

Features

- ▶ visual rotating signalling device with powerful 20 W halogene 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

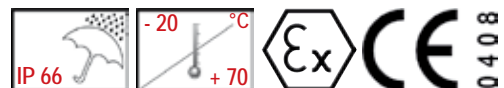
dHL



II 2 G Ex d e IIC T5/T6
II 2 D Ex tD A21 IP66 T95 °C/T80 °C
-20°C ≤ Ta ≤ +70°C/+40°C
Zone 1, 2, 21, 22

Features

- ▶ ex-proof steady beacon with 15 W energy saving bulb for use in explosion endangered areas of zone 1 and 2
- ▶ flameproof chamber „d“ - terminal connection chamber in protection class increased safety „e“
- ▶ energy saving bulb in 5 colours: amber, white, red, blue, green
- ▶ insulation class II - no equipotential bonding required





Order data

Type	Denomination	Nominal Voltage (V)	Voltage Range (V)	Nominal Current (A)	Order No.	Price
					Housing grey/black	
dHR1	Ex-proof rotating signal beacon	24 V AC/DC	+/- 10%	0,900	350 00C 405	
		230/240 V AC 50-60 Hz		0,100	350 10C 413	

NOTE: ▶ additional voltages available



Order data

Type	Denomination	Nominal Voltage (V)	Voltage Range (V)	Nominal Current (A)	Order No.	Price
					Housing grey/black	
dHL1	Ex-proof steady beacon	230/240 V AC 50-60 Hz	+/- 10%	0,150	310 00C 413	

NOTE: ▶ additional voltages available

Ex-proof Audible Signalling Sounder VS1

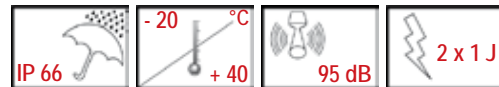
VS1



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

Features

- 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



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

XT



Order data

Type	Denomination	Light Source	Tone options		Nominal Voltage (V)	Voltage Range (V)	Order No.	Price
			tone types	sound pressure (dB)				
VS1	Ex-proof visual-audible signalling sounder	2 x 1 J Xenon tube	3	95	230 V AC	+/- 10%	410 10C 005	



Type	Denomination	Nominal Voltage (V)	Voltage Range (V)	Nominal Current (A)	Order No.	Price
LLL	LED steady light bulb amber, red, yellow	24 V AC/DC	+/- 10%	0,029	893 00C 405	
		48 V AC/DC		0,019	893 00C 408	
		230/240 V AC		0,021	893 00C 313	
LLL	LED steady light bulb green, blue, clear	24 V AC/DC	+/- 10%	0,029	893 00C 405	
		48 V AC/DC		0,019	893 00C 408	
		230/240 V AC		0,021	893 00C 313	
LLB	LED flashing light bulb amber, red, yellow	24 V AC/DC	+/- 10%	0,043	893 01C 405	
		48 V AC/DC		0,026	893 01C 408	
		230/240 V AC		0,021	893 01C 313	
LLB	LED flashing light bulb green, blue, clear	24 V AC/DC	+/- 10%	0,043	893 01C 405	
		48 V AC/DC		0,026	893 01C 408	
		230/240 V AC		0,021	893 01C 313	

NOTE: additional voltages available

Type	Denomination	Nominal Voltage (V)	Order No.	Price
GL02	Incandescent bulb BA15 d, 7 W	24 V	890 010 905	
GL03		48 V	890 010 908	
GL06		230/240 V	890 010 913	
GL22	Incandescent bulb BA15 d, 25 W	24 V	890 025 905	
GL23		48 V	890 025 908	
GL26		230/240 V	890 025 913	
HL52	Halogene bulb, 50 W	24 V	890 050 905	
HL56		230/240 V	890 050 913	
HL32	Halogene bulb, 35 W	24 V	890 035 905	
HL36		230/240 V	890 035 913	
HL22	Halogene bulb, 20 W	24 V	890 020 905	
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	

NOTE: additional voltages available

*Your Signalling
Solution!*

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