

Optical and Acoustic Signalling Devices

»A signal simply had to be set here«



Optical and Acoustic Signalling Devices

Can be ideally adapted for use in industrial and commercial conditions and combined to suit!

The optical acoustic combinations „System T“ and „System T-Mini“ are, as modular systems, also fast to install and fit extremely well in the modern industrial environment. The universally applicable rotating mirror beacons with a wide selection of different light sources round off the programme perfectly.



- o Module system T
- o Module system M
- o Warning and strobe lights
- o Rotating mirror lights
- o Rotating beacons

Define the appropriate signal for each (dangerous) situation and combine them with different colours and light combinations according to taste with the visual and acoustic signal devices from the Grothe company.

Whether you would like to install an individual warning light, or a column system, or rotating mirror light on the wall or a flat surface: You will always find the matching accessory.

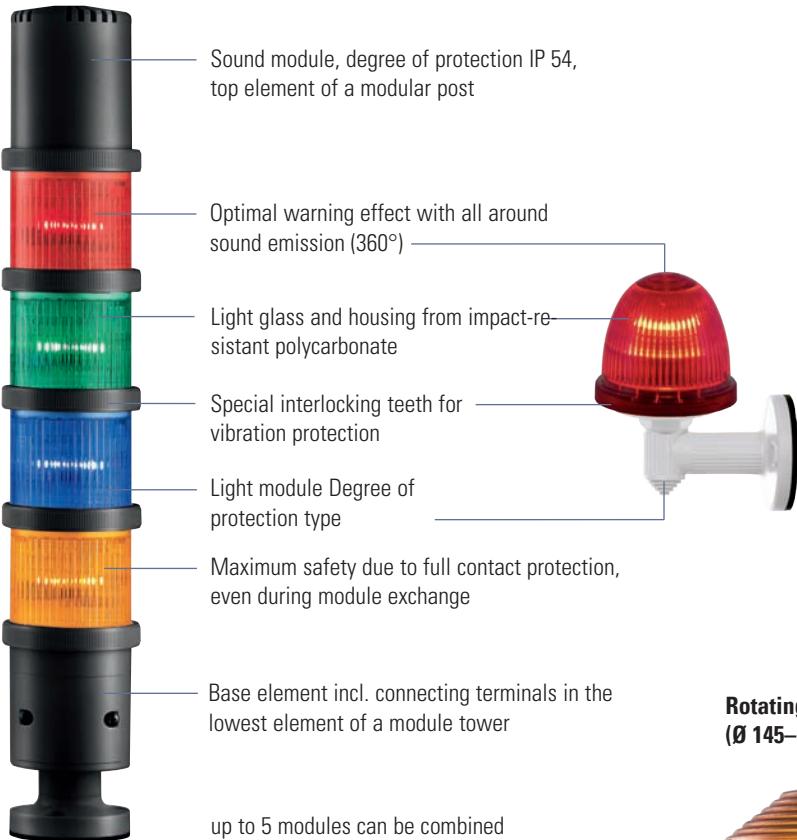
System T (Ø 75 mm) / System T-mini (Ø 48 mm)

Compact modular beacon post with innovative, long-life LED technology and high light intensity for many applications for indoor and outdoor use.

Small warning and flashing light (Ø 76 mm)

Small cheap warning light for use with standard bulb in standard operating environments

Can be fitted to assembly bracket KSZ 8604/8605



Large warning and strobe light (Ø 138 mm)



Fixation onto horizontal or vertical surfaces

Including mounting seal

Degree of protection IP54 / protection class II

Mid-sized strobe light (Ø 96 mm)



Fixation onto horizontal or vertical surfaces

Including mounting seal

Degree of protection IP54 / protection class II

System M (Ø 92 mm)

System M is a compact, modular system consisting of basic modules, lighting and sound generators, which with its high optical performance and powerful sound makes the system a solution for all demanding applications. With the Sound module for very high protection (IP65), System M is ideal for outdoor applications.

The multi-stage technology allows the execution of different alert levels with a single device. This is the choice between different sounds, lights and flash.



Rotating mirror beacon (Ø 145–152 mm)



High quality rotating mirror beacon with a halogen system for optimal light yield



Fixation onto horizontal surfaces

Ball-bearing mounted reflector made of corrosion resistant metal

Long-life gearwheel drive with life time seal

Optimal light yield with halogen, xenon or standard bulbs

Degree of protection IP55 / protection class II

System M**BMF 8911****BMT8912**
BMT 8914**BMW 8913**
BMW 8915**BDW 8916**
BDW 8917**BMF 8991****BMT 8992**
BMT 8994**BME 8993**
BME 8995**Product features**

- For all types 389x
- Multi-volt-mode
- Material: Black PC plastic

Technical data

- -30°C to +50°C

Model	Order no.	Description	Technical data
BMF 8911	38911	Basic module wall • diameter 92 x 22 mm • suspended ceilings installation	• 12/24 V AC/DC
BMT 8912	38912	Basic module wall • diameter 92 x 47 mm • suspended ceilings installation	• 12/24 V AC/DC • M20 screw connection
BMW 8913	38913	Basic module wall • 100 x 61 x 115 mm • On wall installation	• 12/24 V AC/DC
BMT 8914	38914	Basic module wall • diameter 92 x 47 mm • suspended ceilings installation	• 90 - 240 V AC • M20 screw connection
BMW 8915	38915	Basic module wall • 100 x 61 x 115 mm • On wall installation	• 90 - 240 V AC
BDW 8916	38916	Basic module wall • 100 x 95 x 115 mm • On wall installation	• 112/24 V AC/DC
BDW 8917	38917	Basic module wall • 100 x 95 x 115 mm • On wall installation	• 90 - 240 V AC
BMF 8991	38991	Basic module wall • diameter 92 x 22 mm • On wall installation	• 12/24 V AC/DC
BMT 8992	38992	Basic module wall • diameter 92 x 47 mm • On wall installation	• 12/24 V AC/DC

Product features

- For all types 389x
- Multi-volt-mode
- Material: White PC plastic

Technical data

- -30°C to +50°C

Model	Order no.	Description	Technical data
BMT 8993	38993	Basic module wall • 100 x 95 x 115 mm • suspended ceilings installation	• 12/24 V AC/DC • M20 screw connection
BMW 8994	38994	Basic module wall • diameter 145 x 70 mm • On wall installation • suspended ceilings installation	• 12/24 V AC/DC • Flush mounted installation
BMT 8995	38995	Basic module wall • diameter 145 x 70 mm • suspended ceilings installation	• 90 - 240 V AC • Flush mounted installation

System M**Product features**

- For Multi-volt-basic-modules
- 2 functions (alarm 1, alarm 2)
- Independent control through different contacts
- Alarm 1: 64 tones selectable by DIP switch A
- Alarm 2: 64 tones selectable by DIP switch B

Technical data

- Multi-volt-mode
- max. 105dB(A)
- Duty cycle 100%
- -30°C to +50°C
- Diameter 92 x 63mm
- Degree of protection IP65, protection class II

Model	Order no.	Description
MSG 8921	38921	Module sounder • Material: Black plastic
MSG 8922	38922	Module sounder • Material: White plastic

**Product features**

- For Multi-volt-basic-modules
- 3 functions (warning, alarm 1 and alarm 2)
- Independent control through different contacts
- Warning: triple stroboscope flash effect
- Alarm 1: triple stroboscope flash effect and 64 tones selectable by DIP switch A
- Alarm 2: powerful warning light and 64 tones selectable by DIP switch B

Technical data

- Multi-volt-mode
- Flash frequency ca. 85/min
- max. 105dB(A)
- -30°C to +50°C
- Diameter 92 x 63mm
- Degree of protection IP65, protection class II



Model	Order no.	Description
MHZ 8931	38931	Module-multistrobe-LED Lamp • Orange • 15 Cd(p)
MHZ 8932	38932	Module-multistrobe-LED Lamp • Red • 10Cd(p)
MHZ 8933	38933	Module-multistrobe-LED Lamp • Green • 20Cd(p)
MHZ 8934	38934	Module-multistrobe-LED Lamp • Blue • 5Cd(p)

Product features

- For Multi-volt-basic-modules
- 3 functions (continuous, rotating and flash)
- Independent control through different contacts

- Flash frequency ca. 85/min
- Rotation frequency ca. 140/min
- Duty cycle 100%
- max. 105dB(A)
- -30°C to +50°C
- Diameter 92 x 126mm
- Degree of protection IP65, protection class II

Technical data

- Multi-volt-mode



Model	Order no.	Description
MWL 8941	38941	Module-warning-LED Lamp • Orange • 20Cd(p)
MWL 8942	38942	Module-warning-LED Lamp • Red • 13Cd(p)
MWL 8943	38943	Module-warning-LED Lamp • Green • 16Cd(p)
MWL 8944	38944	Module-warning-LED Lamp • Blue • 5Cd(p)

Product features

- For Multi-volt-basic-modules
- 3 functions (permanent, flash, double flash)
- Independant control through different contacts

- Multi-volt-mode
- Flash frequency ca. 140/min
- Duty cycle 100%
- -30°C to +50°C
- Diameter 92 x 43mm
- Degree of protection IP65, protection class II



Model	Order no.	Description
MWL 8951	38951	Module warning LED lamp • Orange • 20 CDd(p)
MWL 8952	38952	Module-warning-LED Lamp • Red • 13 CDd(p)
MWL 8953	38953	Module-warning-LED Lamp • Green • 16 CDd(p)
MWL 8954	38954	Module-warning-LED Lamp • Blue • 5 CDd(p)

System M**Product features**

- For Multi-volt-basic-modules
- 3 functions (permanent, flash, double flash)
- Independant control through different contacts

Technical data

- Multi-volt-mode
- Max. 20 Cd(p)
- Duty cycle 100 %
- -30 to +50 °C
- Diameter 92 x 43mm
- Degree of protection IP66, protection class II
- Blinking frequency 140/minute

Model	Order no.	Description
MML 8963	38963	Module-warning-LED Lamp <ul style="list-style-type: none"> • for signaling over longer distances • Integrated colours: red, orange, green, yellow, cyan, magenta, blue
MML 8962	38962	Module-warning-LED Lamp <ul style="list-style-type: none"> • for signalisation at close range • Integrated colours: red, orange, green



MML 8961



MML 8962



AMP 8906 / 8907



AMP 8908 / 8909



AMP 8966 / 8967



AMP 8968 / 8969



WHA 8910

Product features

- For all types 389x
- Multi-volt-mode
- Material: PC gray plastic
- On wall installation

Technical data

- -25°C to +50°C

Model	Order no.	Description
AMP 8906	38906	Basic traffic lights 2 modules <ul style="list-style-type: none"> • 12 – 24 V AC/DC • Diameter 231 x 120 x 133 mm
AMP 8907	38907	Basic traffic lights 2 modules <ul style="list-style-type: none"> • 120 – 240 V AC • Diameter 231 x 120 x 133 mm
AMP 8908	38908	Basic traffic lights 3 modules <ul style="list-style-type: none"> • 12 – 24 V AC/DC • Diameter 342 x 120 x 133 mm
AMP 8909	38909	Basic traffic lights 3 modules <ul style="list-style-type: none"> • 120 – 240 V AC • Diameter 342 x 120 x 133 mm

Model	Order no.	Description
AMP 8966	38966	Traffic light module incl. 2 LED warning lamps <p>consisting of:</p> <ul style="list-style-type: none"> • 1x Base traffic lights module AMP 8906 • 1x Modul warning lamps LED MWL 8952 • 1x Modul warning lamps LED MWL 8953
AMP 8967	38967	Traffic light module incl. 2 LED warning lamps <p>consisting of:</p> <ul style="list-style-type: none"> • 1x Base traffic lights module AMP 8907 • 1x Warning lamps LED MWL 8952 • 1x Warning lamps LED MWL 8953
AMP 8968	38968	Signal module incl. 3 LED warning lamps <p>consisting of:</p> <ul style="list-style-type: none"> • 1x Base traffic lights module AMP 8908 • 1x Warning lamps LED MWL 8951 • 1x Warning lamps LED MWL 8952 • 1x Warning lamps LED MWL 8953
AMP 8969	38969	Traffic lights incl. LED warning lamps <p>consisting of:</p> <ul style="list-style-type: none"> • 1x Base traffic lights module AMP 8909 • 1x Warning lamps LED MWL 8951 • 1x Warning lamps LED MWL 8952 • 1x Warning lamps LED MWL 8953
AMP 8910	38910	Mount <ul style="list-style-type: none"> • for AMP 89xx • Swivelling • Dimensions: 136 x 88 x 30 mm • Metal

Product features

- 2 functions
- Flush mounted installation (warning, alarm)
- Independent control through different contacts
- Warning: 12 tones selectable by DIP switch
- Alarm : fixed tone
- Diameter 92 x 102mm
- Flush mounted installation

Technical data

- max. 105dB(A)
- Duty cycle 100%
- -30°C to +50°C
- Diameter 92 x 102mm
- Degree of protection IP65, protection class II



SIR 8901RT
SIR 8903RT



SIR 8902WS
SIR 8904WS

Sirens

Model	Order no.	Description
SIR 8901RT	38901	Electronic siren • 12/24 V AC/DC (215/250 mA) • Material: Red Plastic
SIR 8902WS	38902	Electronic siren • 12/24 V AC/DC (215/250 mA) • Material: White Plastic
SIR 8903RT	38903	Electronic siren • 90 - 240 V AC (35 - 60 mA) • Material: Red Plastic
SIR 8904WS	38904	Electronic siren • 90 - 240 V AC (35 - 60 mA) • Material: Red Plastic

System T**Basic unit**

TSZ 8600

Product features

- Bottom unit of stacking beacon
- Incl. cover for the top unit
- Incl. EPDM seal for degree of protection IP65
- Incl. base seal
- Black housing made from impact-resistant polycarbonate PC; circuit board: FR4
- Weight 0.12 kg

- Incl. 6-way terminal for max. 2.5 mm²
- The basic unit can be screwed directly onto horizontal surfaces or combined with mounting accessories

Model	Order no.	Description
TSZ 8600	38600	Basic unit

System T**Mounting parts**

KSZ 8601



KSZ 8603



KSZ 8604



KSZ 8605

Product features

- For mounting on horizontal or vertical surfaces
- Incl. O ring for degree of protection IP65
- Material: Plastic PA 66

- Mounting base with 4 fixing holes for a strong hold and base seal

Model	Order no.	Description	
KSZ 8601	38601	Mounting base	<ul style="list-style-type: none"> • For horizontal mounting • Male thread • Weight 0.03 kg
KSZ 8603	38603	Extension tube	<ul style="list-style-type: none"> • 100 mm extension • Diameter 25 mm • Weight 0.03 kg
KSZ 8604	38604	Mounting bracket	<ul style="list-style-type: none"> • For vertical mounting • (wall mounting) • 1 connection • Weight 0.04 kg
KSZ 8605	38605	Mounting bracket	<ul style="list-style-type: none"> • Vertical mounting • 2 connections • Weight 0.05 kg

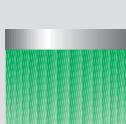
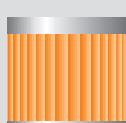
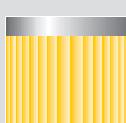
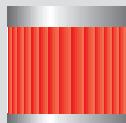
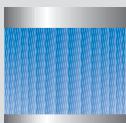
System T

Extremely reliable flashing light module with high luminosity



TLB 88xx

Colour variations

**Product features**

- Good warning effect with even, all-round visibility (360°)
- Lenses and housing made from impact-resistant poly carbonate PC (self-extinguishing); circuit board: FR4
- Incl. bayonet closure with special interlocking teeth to prevent vibration
- Maximum safety thanks to full contact protection (even when modules are replaced)
- integrated super bright SMD LEDs
- highest reliability
- Functions: Permanent light, simple, double (xenon effect) or triple strobe adjustable using the DIP switch
- Maintenance-free, low power consumption

Technical data

- 24 V AC/DC (0.09 A)
- Duty cycle 100%
- Blink frequency approx. 150/min
- -30°C to +60°C
- Diameter 75 x 79 mm
- Weight 0.1 kg
- Degree of protection IP65, protection class II

Model Order no. Description**24 V AC/DC (0.09 A)**

TLB 8831	38831	LED multi flashing light	<ul style="list-style-type: none"> • Orange • 5 Cd(p)
TLB 8832	38832	LED multi flashing light	<ul style="list-style-type: none"> • Red • 3 Cd(p)
TLB 8834	38834	LED multi flashing light	<ul style="list-style-type: none"> • Clear • 11 Cd(p)
TLB 8835	38835	LED multi flashing light	<ul style="list-style-type: none"> • Blue • 1 Cd(p)
TLB 8836	38836	LED multi flashing light	<ul style="list-style-type: none"> • Green • 7 Cd(p)
TLB 8837	38837	LED multi flashing light	<ul style="list-style-type: none"> • Yellow • 5 Cd(p)

LED multi flashing light**System T**

Model	Order no.	Description	
240 V AC (0.02 A)			
TLB 8841	38841	LED multi flashing light	• Orange • 5 Cd(p)
TLB 8842	38842	LED multi flashing light	• Red • 3 Cd(p)
TLB 8844	38844	LED multi flashing light	• Clear • 11 Cd(p)
TLB 8845	38845	LED multi flashing light	• Blue • 1 Cd(p)
TLB 8846	38846	LED multi flashing light	• Green • 7 Cd(p)
TLB 8847	38847	LED multi flashing light	• Yellow • 5 Cd(p)

Caution: Please always order the basic unit (Order No. 38600) and mounting parts separately!

Warning light**System T**

Extremely reliable flashing light module with high luminosity

Product features

- Good warning effect with even, all-round visibility (360°)
- Lenses and housing made from impact-resistant polycarbonate PC (self-extinguishing); circuit board: FR4
- Incl. bayonet closure with special interlocking teeth to prevent vibration
- Maximum safety thanks to full contact protection (even when modules are replaced)
- Accepts 12 to 240 V (5 W) filament bulbs and LED lights

Technical data

- 24 V AC/DC (0.09 A)
- Max. 240 V AC/DC (5 W)
- Socket: Ba15d
- Duty cycle 100 %
- Degree of protection IP65, protection class II
- -30 °C to +60 °C
- Diameter 75 mm x 79 mm
- Weight 0.09 kg



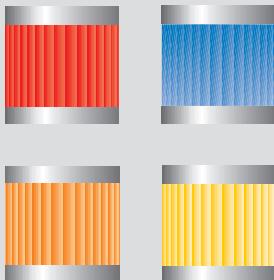
Model	Order no.	Description	
TWL 8711	38711	Warning light	• Orange • 3 Cd(p)
TWL 8712	38712	Warning light	• Red • 1 Cd(p)
TWL 8714	38714	Warning light	• Clear • 3 Cd(p)
TWL 8715	38715	Warning light	• Blue • 1 Cd(p)
TWL 8716	38716	Warning light	• Green • 1 Cd(p)
TWL 8717	38717	Warning light	• Yellow • 3 Cd(p)

Caution: Please always order the basic unit (Order No. 38600) and mounting parts separately!

Please order filament bulbs and LED lights separately!

System T**Flashing light**

TBL 872x / 873 x



Colour options

Product features

- Good warning effect with even, all-round visibility (360°)
- Lenses and housing made from impact-resistant polycarbonate PC (self-extinguishing); circuit board: FR4
- Incl. bayonet closure with special interlocking teeth to prevent vibration
- Maximum safety thanks to full contact protection (even when modules are replaced)

Technical data

- Socket: Ba15d
- Flash frequency approx. 110/min.
- Duty cycle 100 %
- Degree of protection IP65, protection class II
- -30°C to +60°C
- Diameter 75 mm x 79 mm
- Weight 0.1 kg

Model	Order no.	Description	
12 - 48 V DC (0.43 - 0.21 A)			
TBL 8721	38721	Flashing light	
		• Orange	• 3 Cd(p)
TBL 8722	38722	Flashing light	
		• Red	• 1 Cd(p)
TBL 8724	38724	Flashing light	
		• Clear	• 3 Cd(p)
TBL 8725	38725	Flashing light	
		• Blue	• 1 Cd(p)
TBL 8726	38726	Flashing light	
		• Green	• 1 Cd(p)
TBL 8727	38727	Flashing light	
		• Yellow	• 1 Cd(p)
24 / 240 V AC (0.21 A)			
TBL 8731	38731	Flashing light	
		• Orange	• 3 Cd(p)
TBL 8732	38732	Flashing light	
		• Red	• 1 Cd(p)
TBL 8734	38734	Flashing light	
		• Clear	• 3 Cd(p)
TBL 8735	38735	Flashing light	
		• Blue	• 1 Cd(p)
TBL 8736	38736	Flashing light	
		• Green	• 1 Cd(p)
TBL 8737	38737	Flashing light	
		• Yellow	• 3 Cd(p)

Caution: Please always order the basic unit (Order No. 38600) and mounting parts separately!
Please order filament bulbs and LED's separately!

System T**Sounder TSG 8785/6**

TSG 8785/6

An inexpensive sounder for standard applications**Product features**

- 6 tone sequences selectable by DIP switch
- Tone sequences: continuous, slow pulsed or rapid pulsed tone
- Reliable magneto-dynamic system for sound generation
- Incl. bayonet closure with special interlocking teeth to prevent vibration
- Maximum safety thanks to full contact protection (even when modules are replaced)
- The top unit of a stacking beacon (so 1 sounder per beacon is possible)

- Duration of acoustic signals as long as voltage applied (use an additional relay if required)

Technical data

- For voltages see ordering overview
- Max. 81 dB(A)
- Duty cycle 100%
- Degree of protection IP54, protection class II
- -30°C to +60°C
- Diameter 75 mm x 116 mm
- Weight 0.13 kg
- Adjustable volume

Model	Order no.	Description	
TSG 8785	38785	Sounder	• 12 - 48 V AC/DC (3 - 13 mA)
TSG 8786	38786	Sounder	• 24 - 240 V AC (max. 8 mA)

Sounder TSG 8781/2**System T**

A multifunction sounder with extremely high volume

Product features

- 32 tone sequences selectable by DIP switch
- Tone sequences/frequencies: see table below
- Reliable magneto-dynamic system for sound generation
- High acoustic pressure with low current consumption
- Incl. bayonet closure with special interlocking teeth to prevent vibration
- Maximum safety thanks to full contact protection (even when modules are replaced)
- The top unit of a stacking beacon (so 1 sounder per beacon is possible)

- Duration of acoustic signals as long as voltage applied (use an additional relay if required)

Technical data

- For voltages see ordering overview
- Max. 100 dB(A)
- Duty cycle 100%
- Degree of protection IP54, protection class II
- -30°C to +60°C
- Diameter 75 mm x 116 mm
- Weight 0.24 kg
- Adjustable volume and volume progression

**TSG 8781/2**

Model	Order no.	Description	
TSG 8781	38781	Sounder	• 12 V/24 VAC/DC (0.4/1.0 A)
TSG 8782	38782	Sounder	• 240 V AC (0.044 A)

TSG 8781/2 / Tone table**System T**

Tone	Volume at 24 V	Frequency	Tone	Volume at 24 V	Frequency
Linear					
Type A	94 dB(A)	1000 Hz	Normal	98 dB(A)	1000–1700 Hz
Type A	96 dB(A)	2850 Hz	Rapid Type A	95 dB(A)	800–970 Hz
Type A	95 dB(A)	500 Hz	Slow Type A	95 dB(A)	800–970 Hz
Type A	92 dB(A)	300 Hz	Rapid Type B	97 dB(A)	2400–2850 Hz
2-tone					
Normal	97 dB(A)	600/700 Hz	Slow Type B	99 dB(A)	2400–2850 Hz
Rapid	94 dB(A)	800/970 Hz	Intermittent	95 dB(A)	500–1200 Hz
Type A	97 dB(A)	2400/2850 Hz	Falling	94 dB(A)	1200–500 Hz
Type B	96 dB(A)	800/970 Hz	Buzzer	96 dB(A)	800–970 Hz
Type C	94 dB(A)	440/550 Hz	Buzzer	97 dB(A)	2400–2850 Hz
Type D	96 dB(A)	600/700 Hz			
with pause	96 dB(A)	600/700 Hz	Evacuation		
with pause	99 dB(A)	1200/1700 Hz	Type A	94 dB(A)	440/560 Hz
with pause	100 dB(A)	2400/2850 Hz			
Modulating					
Type A	99 dB(A)	1000–1700 Hz	Intermittent		
Type B	99 dB(A)	1400–1600 Hz	Slow intermittent A	95 dB(A)	970 Hz
			Slow intermittent A	93 dB(A)	660 Hz
			Rapid intermittent B	97 dB(A)	2850 Hz
			Rapid intermittent B	96 dB(A)	2850 Hz
			Type C	95 dB(A)	970 Hz
			Type D	91 dB(A)	660 Hz
			Type E	93 dB(A)	660 Hz

System T-Mini**General features**

Compact, modular warning posts with innovative, long-life LED technology and high light intensity for a variety of applications indoors and outdoors

Product features

- Optimum warning effect due to super-bright LEDs with even, all-round visibility (360°) and reliable sounders
- High failure safety even in harsh industrial environments
- Maintenance-free
- Low power consumption and low heat generation
- Lenses and housing made from impact-resistant polycarbonate PC, FR4 circuit board
- Flashing light or warning light function that can be adjusted with a switch inside each individual module
- Housing colour black

Installation

- Incl. bayonet closure with special interlocking teeth to prevent vibration
- Maximum safety thanks to contact protection (even when modules are replaced)

System T-Mini**Mounting parts****Product features**

- The basic unit can be screwed onto horizontal surfaces using the supplied base or combined with KSZ...

mounting accessories

- Material/colour: impact-resistant polycarbonate, black

Model	Order no.	Description	
for 24 V AC/DC			
MSZ 8610	38610	Basic unit	<ul style="list-style-type: none"> Incl. base, cover and all required seals for degree of protection IP65 The bottom unit of a stacking beacon
KSZ 8603	38603	Extension tube	<ul style="list-style-type: none"> 100 mm extension Incl. O ring for degree of protection IP65
KSZ 8604	38604	Mounting bracket	<ul style="list-style-type: none"> For vertical mounting/wall mounting Incl. O ring for degree of protection IP65
KSZ 8605	38605	Mounting bracket	<ul style="list-style-type: none"> For vertical mounting/wall mounting Incl. O ring for degree of protection IP65
mounting accessories • Material/colour: impact-resistant polycarbonate, black			
• Incl. 6-way terminal for max. 1.5 mm ² • Weight 0.1 kg			
• Diameter 25 mm • Weight 0.03 kg			
• 1 connection • Weight 0.04 kg			
• 2 connections • Weight 0.04 kg			

System T-Mini**Sounder module****MSG 86X0****Product features**

- 1 non-adjustable tone sequence (alternating frequency 800/1000 Hz)
- Reliable tone generation due to magneto-dynamic loudspeaker
- The top unit of a stacking beacon (1 sounder per beacon possible)
- Duration of acoustic signals as long as voltage applied (use an additional relay if required)

Technical data

- For voltages see ordering overview
- Max. 77 dB(A)
- Duty cycle 100%
- Degree of protection IP54, protection class II
- 30 °C to +50 °C
- Diameter 48 mm x 61 mm
- Weight 0.18 kg

Model	Order no.	Description	
MSG 8620	38620	Sounder	<ul style="list-style-type: none"> 24 V AC/DC (130 mA)
MSG 8630	38630	Sounder	<ul style="list-style-type: none"> 240 V AC (15 mA)

Warning/flashing lights**System T-Mini****Technical data**

- For voltages see ordering overview
- Flash frequency approx. 110/min +/- 20%
- Duty cycle 100%
- Degree of protection IP65, protection class II
- -30°C to +50°C
- Lens diameter 48 mm, height of each module when installed 48 mm
- Weight of each lens module approx. 0.05 kg

Model	Order no.	Description	
for 24 V AC/DC			
MWB 8621	38621	LED warning/flashing light	<ul style="list-style-type: none"> • Yellow-orange • 3 Cd(p)
MWB 8622	38622	LED warning/flashing light	<ul style="list-style-type: none"> • Red • 1 Cd(p)
MWB 8624	38624	LED warning/flashing light	<ul style="list-style-type: none"> • White • 3 Cd(p)
MWB 8625	38625	LED warning/flashing light	<ul style="list-style-type: none"> • Blue • 1 Cd(p)
MWB 8626	38626	LED warning/flashing light	<ul style="list-style-type: none"> • Green • 1 Cd(p)
for 240 V AC			
MWB 8631	38631	LED warning/flashing light	<ul style="list-style-type: none"> • Yellow-orange • -3 Cd(p)
MWB 8632	38632	LED warning/flashing light	<ul style="list-style-type: none"> • Red • 1 Cd(p)
MWB 8634	38634	LED warning/flashing light	<ul style="list-style-type: none"> • White • 3 Cd(p)
MWB 8635	38635	LED warning/flashing light	<ul style="list-style-type: none"> • Blue • 1 Cd(p)
MWB 8636	38636	LED warning/flashing light	<ul style="list-style-type: none"> • Green • 1 Cd(p)



Small warning/flashing beacons**Mounting parts****Product features**

- For mounting on horizontal or vertical surfaces
- Incl. O ring for degree of protection IP65
- Material: Plastic PA 66

Note

- The adapter base KSZ 8002 is needed if you wish to combine the beacon with the KSZ 8001/3/4/5 accessories!

Installation

- Mounting base with 4 fixing holes for a strong hold and base seal

Model	Order no.	Description
KSZ 8002	38002	Adapter base <ul style="list-style-type: none"> • Is screwed directly to beacon to enable combination with the remaining accessories • Female thread • Weight 0.01 kg
KSZ 8001	38001	Mounting base <ul style="list-style-type: none"> • For horizontal mounting • Male thread • Weight 0.03 kg
KSZ 8003	38003	Extension tube <ul style="list-style-type: none"> • 100 mm extension • Diameter 25 mm • Weight 0.03 kg
KSZ 8004	38004	Mounting bracket <ul style="list-style-type: none"> • For vertical mounting (wall mounting) • 1 connection • Weight 0.04 kg
KSZ 8005	38005	Mounting bracket <ul style="list-style-type: none"> • Vertical mounting • 2 connections • Weight 0.05 kg

**Small warning beacon KWL****Product features**

- Good warning effect with even, all-round visibility (360°)
- Accepts 12 to 240 V (5 W or 10 W) filament bulbs + LED
- Lens in impact-resistant polycarbonate PC and PA housing (self-extinguishing)
- The beacon can be screwed directly onto horizontal surfaces or combined with mounting accessories (see above)
- Special interlocking teeth counter vibration
- Terminals for max. 1.5 mm²

Technical data

- Max. 240 V AC/DC (5 W)
- Socket: Ba15d
- Duty cycle 100%
- Degree of protection IP65, protection class II
- -30°C to +50°C
- Diameter 76 mm x 86 mm
- Weight 0.15 kg

Note

- Please order filament bulbs and LED lights separately!

Model	Order no.	Description
KWL 8101	38101	Warning light <ul style="list-style-type: none"> • Orange • 3 Cd(p)
KWL 8102	38102	Warning light <ul style="list-style-type: none"> • Red • 1–2 Cd(p)
KWL 8106	38106	Warning light <ul style="list-style-type: none"> • Green • 1 Cd(p)

Small LED flashing beacon KBZ for 12/24 V AC/DC

KBZ 8211



KBZ 8212

Product features

- Good warning effect with even, all-round visibility (360°)
- Integrated super bright SMD LEDs
- Highest reliability
- Functions: Permanent light, simple double (xenon effect) or triple strobe adjustable using the DIP switch
- Maintenance-free, low power consumption
- Lens in impact-resistant polycarbonate PC and PA housing (self-extinguishing)
- The beacon can be screwed directly onto horizontal surfaces or combined with mounting accessories (see above)

- Special interlocking teeth counter vibration
- Terminals for max. 1.5 mm²

Technical data

- 12/24 V AC/DC (0,09A)
- Duty cycle 100%
- Blink frequency approx. 150/min
- Degree of protection IP65, protection class II
- -30°C to +60°C
- Diameter 75 x 79 mm
- Weight 0.1 kg

Model	Order no.	Description	
KBZ 8211	38211	LED-multistrobe lamp	<ul style="list-style-type: none"> • Orange • 20 Cd(p)
KBZ 8212	38212	LED-multistrobe lamp	<ul style="list-style-type: none"> • Red • 8 Cd(p)

Small LED flashing beacon KBZ for 90–240 V AC

KBZ 8221



KBZ 8222

Product features

- Good warning effect with even, all-round visibility (360°)
- Lens in impact-resistant polycarbonate PC and PA housing (self-extinguishing)
- The beacon can be screwed directly onto horizontal surfaces or combined with mounting accessories (see above)
- Special interlocking teeth counter vibration
- Terminals for max. 1.5 mm²

Technical data

- 90–240 V AC (0,02 A)
- Duty cycle 100 %
- Degree of protection IP65, protection class II
- -30°C to +50°C
- Diameter 76 mm x 86 mm
- Weight 0.15 kg

Model	Order no.	Description	
KBZ 8221	38221	LED-multistrobe lamp	<ul style="list-style-type: none"> • Orange • 20 Cd(p)
KBZ 8222	38222	LED-multistrobe lamp	<ul style="list-style-type: none"> • Red • 8 Cd(p)

Middle LED flashing beacon KBZ**Product features**

- Integrated super bright SMD LEDs
- Highest reliability
- Functions: Permanent light, simple double (xenon effect) or triple strobe adjustable using the DIP switch
- Maintenance-free, low power consumption

Technical data

- Duty cycle 100%
- Degree of protection IP54, protection class II
- -30°C to +60°C
- Diameter 96 mm x 83 mm
- Weight 0.1 kg



Typ	Best.-Nr.	Beschreibung	
MBZ 8411	38411	LED-multistrobe lamp	<ul style="list-style-type: none"> • Orange • 22 Cd(p) • 12/24 V AC/DC (0.32 A)
MBZ 8412	38412	LED-multistrobe lamps	<ul style="list-style-type: none"> • Red • 13 Cd(p) • 12/24 V AC/DC (0.32 A)

Middle LED flashing beacon KBZ

Typ	Best.-Nr.	Beschreibung	
MBZ 8421	38421	LED-multistrobe lamps	<ul style="list-style-type: none"> • Orange • 22 Cd(p) • 90-240 V AC (0.075 A)
MBZ 8422	38422	LED-multistrobe lamps	<ul style="list-style-type: none"> • Red • 13 Cd(p) • 90-240 V AC (0.075 A)

Large warning beacon GWL**Product features**

- Good warning effect with even, all-round visibility (360°)
- Accepts 12 to 240 V (25 W max.) filament bulbs + LED
- Rugged black plastic housing made from PA (self-extinguishing) and lens in impact-resistant polycarbonate PC
- The beacon can be screwed directly onto horizontal surfaces or combined with mounting accessories (see above)
- Incl. base seal
- Terminals for max. 1.5 mm²

Technical data

- Max. 240 V AC/DC (25W)
- Socket: Ba15d
- Duty cycle 100%
- Degree of protection IP 54, protection class II
- -30°C to +50°C
- Diameter 138 mm x 115 mm
- Weight 0.3 kg

Note

- Please order filament bulbs and LED lights separately!



Model	Order no.	Description	
GWL 8511	38511	Warning light	<ul style="list-style-type: none"> • Orange • 56 Cd(p)
GWL 8512	38512	Warning light	<ul style="list-style-type: none"> • Red • 24 Cd(p)
GWL 8516	38516	Warning light	<ul style="list-style-type: none"> • Green • 10 Cd(p)

Large flashing beacon GBZ

GBZ 8601



GBZ 8602

High-performance xenon flashing beacon with good signal effect

Product features

- High warning effect thanks to xenon flash tube (included in scope of delivery)
- High failure safety as there are no moved parts
- Field of application: industrial hazard areas/alarm systems
- Rugged black plastic housing made from PA (self-extinguishing) and lens in impact-resistant polycarbonate PC
- The beacon can be screwed directly onto horizontal surfaces or combined with mounting accessories (see above)
- Incl. base seal
- Terminals for max. 1.5 mm²

Technical data

- For voltages see ordering overview
- Duty cycle 100%
- Replaceable xenon tube 6J
- Flash frequency: 65 flashes/min.
- Degree of protection IP54, protection class II
- -10°C to +40°C
- Diameter 138 x 115 mm
- Weight 0.38 kg

Model	Order no.	Description	
GBZ 8601	38531	Flashing light	<ul style="list-style-type: none"> • Orange • 3360 Cd(p) • 12/24 V AC/DC (1.8/0.85 A)
GBZ 8602	38532	Flashing light	<ul style="list-style-type: none"> • Red • 1440 Cd(p) • 12/24 V AC/DC (1.8/0.85 A)
GBZ 8611	38551	Flashing light	<ul style="list-style-type: none"> • Orange • 3360 Cd(p) • 240 V AC (0.1 A)
GBZ 8612	38552	Flashing light	<ul style="list-style-type: none"> • Red • 1440 Cd(p) • 240 V AC (0.1 A)

Large flashing beacon GBZ - Ø 138 mm

GBZ 8621



GBZ 8622

Product features

- High warning effect thanks to xenon- flash tube (included)
- Field of application: industrial hazard areas/alarm systems
- excellent light distribution by special optics
- High failure safety as there are no moved parts
- M16 screw fitting

Technical data

- 240 V AC (0.9A)
- Replaceable xenon tube 6J
- Flash frequency: 85/min.
- Degree of protection IP54, protection class II
- -30°C to +40°C
- Diameter 130 x 138.5mm

Model	Order no.	Description	
GBZ 8621	38553	Flashing light	<ul style="list-style-type: none"> • Orange • 2650 Cd(p)
GBZ 8622	38554	Flashing light	<ul style="list-style-type: none"> • Red • 2650 Cd(p)

Combi flashing light HBZ 85XX

A heavy-duty xenon flashing beacon with built-in sounder

Product features

- High warning effect via xenon flashtube (included in scope of delivery)
- High failure safety of the opt. signalling device as there are no moved parts
- Field of application: industrial hazard areas/alarm systems
- Incl. piezo sounder (sounds at the same time as the flash)
- Duration of optical/acoustic signals as long as voltage applied (use an additional relay if required)
- Rugged black plastic housing made from PA (self-extinguishing) and lens in impact-resistant polycarbonate PC
- The beacon can be screwed directly onto horizontal surfaces or combined with mounting accessories (see above)
- Incl. base seal
- Terminals for max. 1.5 mm²

Technical data

- For voltages see ordering overview
- Duty cycle 100%
- Replaceable xenon tube 6J
- Flash frequency: 65 flashes/min.
- Degree of protection IP 30, protection class II
- -10°C to +40°C
- Diameter 138 x 115 mm
- Weight 0.4 kg



HBZ 8541



HBZ 8542

Model	Order no.	Description	
HBZ 8541	38541	Combi flashing light	<ul style="list-style-type: none"> • Orange • 24 V DC (0.85 A) • 80 dB(A)
HBZ 8542	38542	Combi flashing light	<ul style="list-style-type: none"> • Red • 24 V DC (0.85 A) • 80 dB(A)
HBZ 8571	38571	Combi flashing light	<ul style="list-style-type: none"> • Orange • 240 V AC (0.1 A) • 72 dB(A)
HBZ 8572	38572	Combi flashing light	<ul style="list-style-type: none"> • Red • 240 V AC (0.1 A) • 72 dB(A)

Rotating mirror beacon DSL (12/24 V / halogen)**Product features**

- Maximum light yield through the use of halogen H1 lamps (not included in scope of delivery)
- Field of application: with homologation for industrial hazard areas/alarm systems
- Housing made from glass-fibre reinforced polyamide PA; lens made from impact-resistant PMMA
- Ball-bearing mounted reflector made from corrosion-resistant metal
- Durable toothed gear drive, sealed for life/installation
- Can be mounted on horizontal surfaces or on vertical surfaces using accessory kit DSZ 7395 (wall mounting) or with cage guard or push-fit flange

Technical data

- 12/24 V AC/DC (4.8 / 3.1 A)
- Duty cycle 100%
- Flash rate: 160/min.
- Degree of protection IP 55, protection class II
- Temperature range -30 °C to +50 °C
- Diameter 145 x 193
- Weight 0.6 kg
- Terminals for max. 1.5 mm²



DSL 7307

Model	Order no.	Description	
DSL 7302	37302	Rotating mirror beacon	<ul style="list-style-type: none"> • Red • 10,000 Cd(p)
DSL 7307	37307	Rotating mirror beacon	<ul style="list-style-type: none"> • Orange • 10,000 Cd(p)

Rotating mirror beacon DSL (240 V halogen)

DSL 7322



DSL 7327

Product features

- Maximum light yield through the use of halogen H1 lamps (included in scope of delivery)
- Field of application: with homologation for industrial hazard areas/alarm systems
- Housing made from glass-fibre reinforced polyamide PA; lens made from impact-resistant PMMA
- Ball-bearing mounted reflector made from corrosion-resistant metal
- Durable toothed gear drive, sealed for life Installation
- Can be mounted on horizontal surfaces or on vertical surfaces using accessory kit DSZ 7395 (wall mounting)

Technical data

- 240 V AC (0.22A)
- Duty cycle 100%
- Flash rate: 160/min.
- Degree of protection IP55, protection class II
- -30°C to +50°C
- Diameter 152 x 209
- Weight 1.5 kg
- Terminals for max. 1.5 mm²

Model	Order no.	Description
DSL 7322	37322	Rotating mirror beacon • Red • 10,000 Cd(p)
DSL 7327	37327	Rotating mirror beacon • Orange • 10,000 Cd(p)

Rotating mirror beacon DSL (standard)

DSL 73X1



DSL 73X2

Product features

- Good light yield using standard commercial bulbs (included in scope of delivery)
- Field of application: industrial hazard areas/alarm systems
- Body made from glass-fibre reinforced polyamide PA; lens made from impact-resistant polycarbonate PC
- Durable toothed gear drive, sealed for life Installation
- Can be mounted on horizontal surfaces or on vertical surfaces using accessory kit DSZ 7395 (wall mounting)

Technical data

- Flash rate: 160/min.
- Protection rating IP55, protection class II
- -30°C to +50°C
- Diameter 152 mm x 209 mm
- Terminals for max. 1.5 mm²
- Bulb 25 W (Ba15d socket)

Model	Order no.	Description
for 24 V AC		
DSL 7362	37362	Rotating mirror beacon • Red • Weight: 0.82 kg • 24 V AC (1.1 A)
DSL 7361	37361	Rotating mirror beacon • Orange • Weight: 0.82 kg • 24 V AC (1.1 A)
for 240 V AC		
DSL 7332	37332	Rotating mirror beacon • Red • Weight: 0.92 kg • 240 V AC (0.11 A)
DSL 7337	37337	Rotating mirror beacon • Orange • Weight: 0.92 kg • 240 V AC (0.11 A)

Xenon rotating beacon

BLZ-R 7352



BLZ-R 7357

Product features

- Optimum warning effect is produced by a powerful xenon flash tube (included in scope of delivery)
- The special optical system creates excellent light distribution, including upwards and downwards
- High failure safety as there are no moving parts
- Field of application: industrial hazard areas/alarm systems
- Housing made from glass-fibre reinforced polyamide PA; lens made from impact-resistant polycarbonate PC
- Terminals for max. 1.5 mm²
- Can be mounted on horizontal surfaces or on vertical surfaces using accessory kit DSZ 7395 (wall mounting)

Technical data

- 240 V AC (0.1 A)
- Replaceable xenon tube 6J
- Flash frequency: 65 flashes/min.
- Protection rating IP55, protection class II
- 30°C to +40°C
- Diameter 152 mm x 209 mm
- Weight 0.79 kg
- Terminals for max. 1.5 mm²

Model	Order no.	Description
BLZ-R 7352	37352	Xenon rotating beacon • Red
BLZ-R 7357	37357	Xenon rotating beacon • Orange

Mounting parts / accessories for DSL

DSZ 7395



DSZ 7391



DSZ 7394

Model	Order no.	Description
Accessories/spare parts		
DSZ 7395	37395	Wall bracket • Vertical mounting (wall) • Grey • Rugged plastic construction • Weight 0.2 kg
DSZ 7391	37391	Push-fit flange • Rugged plastic construction • DIN-compliant (Base A) • Black • Tube diameter 24 mm • Incl. connection leads • Weight 0.1 kg
DSZ 7394	37394	Basket protector • Stainless steel • Weight 0.27 kg

Colour-intensive LED light with high light intensity and standard commercial Ba15d base for a variety of uses in industry and commerce

Product features

- Optimum warning effect through 4 super-bright LEDs that achieve an even, all-round visibility (360°) in combination with suitable light optics
- Extremely high failure safety even in harsh industrial environments (vibration resistance in accordance with DIN 40046), with cyclical operation (constant ON/OFF switching) and voltage fluctuations of up to 20%
- Maintenance-free, service life approx. min. 100,000 hours (compared to only approx. 2000 hours with traditional bulbs)
- Low power consumption and low heat generation (max. 30°C at 230 V AC continuous power)

Installation

- Any mounting position possible due to the low heat generation
- LED lights can be used in all of the lights of the following series: SystemT (TWL, TBL), KWL, GWL. With the lights in the KWL and GWL Series, the fact that the light only radiates horizontally must be taken into account. Of course, they can also be used with the Ba15d base in the standard commercial lights of other suppliers

Technical data

- See ordering overview

Note

- Please always order the LED light in the same colour as the optical system of the corresponding light
- The LED light KSZ-LED 86X1 (yellow-orange) is suitable for use in both yellow and orange lights

Model	Order no.	Description			
for 24 V AC/DC					
KSZ-LED 8661	38661	LED light	Yellow-orange	24V AC/DC (45mA)	
KSZ-LED 8662	38662	LED light	Red	24V AC/DC (45mA)	
KSZ-LED 8664	38664	LED light	White	24V AC/DC (50mA)	
KSZ-LED 8665	38665	LED light	Blue	24V AC/DC (65mA)	
KSZ-LED 8666	38666	LED light	Green	24V AC/DC (45mA)	
for 240 V AC					
KSZ-LED 8651	38651	LED light	Yellow-orange	230–240V AC (50mA)	
KSZ-LED 8652	38652	LED light	Red	230–240V AC (50mA)	
KSZ-LED 8654	38654	LED light	White	230–240V AC (55mA)	
KSZ-LED 8655	38655	LED light	Blue	230–240V AC (70mA)	
KSZ-LED 8656	38656	LED light	Green	230–240V AC (50mA)	

Note: Please order the LED-lamps always in the same colour as the optics of the respective light. The LED-lamp of the KSZ-LED 86X1 (yellow/orange) is suitable for both the yellow and the orange lights. The intensity of the LED-lamp "KSZ-LEDxxxx" when fitted is consistent with the stated light intensity of the light modules.

Bulbs for Ba15d socket

Model	Order no.	Description			
DSZ 7396	37396	Bulb	• 24V (25W)	• for DSL 7361 and 7362	
DSZ 7397	37397	Bulb	• 240V (25W)	• for DSL 7332 and 7337	
GSZ 8591	38591	Bulb	• 12V (25W)	• for GWL 85xx	
GSZ 8592	38592	Bulb	• 24V (25W)	• for GWL 85xx	
GSZ 8593	38593	Bulb	• 240V (25W)	• for GWL 85xx	
KSZ 8595	38595	Bulb	• 12V (5W)	• for TWL 871x, TBL 87xx and KWL 810x	
KSZ 8596	38596	Bulb	• 24V (5W)	• for TWL 871x, TBL 87xx and KWL 810x	
KSZ 8597	38597	Bulb	• 240V (5W)	• for TWL 871x, TBL 87xx and KWL 810x	

Model	Order no.	Description			
Accessories/spare parts					
DSZ 7381	37381	Halogen lamp	• H1	• 12 V (55 W) • Weight 0.01 kg	
DSZ 7382	37382	Halogen lamp	• H1	• 24 V (70 W) • Weight 0.01 kg	
DSZ 7383	37383	Xenon light		• 6 J	

