



**Signal Devices for the
Control Panel Industry**





**EUROPE'S
LEADER IN
SIGNALLING**

INTELLIGENT SIGNAL TECHNOLOGY

WERMA products and solutions make processes safe and keep them running efficiently. This saves you time and money and enables you to optimise your processes sustainably. Customers from the most diverse range of industries all over the world have trusted and benefited from our expertise for years because we offer clever solutions that simply work.

SIGNAL TOWERS

Professional signalling provides the application with greater safety and security and can help reduce response times considerably. Monitor the processes, make them reliable and keep them running - saving time and money. We call this intelligent signalling technology.



KombiSIGN 40



There is no need to compromise with the KombiSIGN 40 because WERMA has combined quick installation, excellent visibility and the highest level of flexibility in this product. This saves you time and money.

- Easy, intuitive installation - incorrect assembly is practically impossible (Poka Yoke)
- TwinLIGHT and TwinFLASH combine two easily selectable light effects in one element
- In ClassicLOOK or DesignLOOK to suit all machine mounting surfaces
- Clearly visible from all positions thanks to the OmniVIEW lens which has no blind spots

KOMPAKT 37



The KOMPAKT 37 is a completely pre-assembled signal tower that can be easily ordered under a single part number. With up to five optical tiers available, the slim signal tower can be installed quickly and easily. The compact and completely enclosed construction is ideal for use in all types of public areas because it is tamper-proof.

- Up to six levels of signal escalation possible – including an audible signal
- In ClassicLOOK or DesignLOOK to suit all machine mounting surfaces
- Clearly visible from all positions thanks to the OmniVIEW lens which has no blind spots



KombiSIGN 40 - ClassicLOOK

Diameter	40 mm
Dimensions optical signal element (Ø x Height)	40 mm x 58,6 mm
Protection rating	IP 66
Number of tiers possible	1-5
Interface optional	IO-Link
Life duration Optical Signal Elements/ Audible Signal Elements	50.000 h
Lens	PC, transparent



Pre-assembled signal tower - green/yellow/red

	TwinLIGHT
Light effects:	LED Permanent light, LED Blinking light, adjustable via slide switch
Dimensions (Ø x Height):	40 mm x 214 mm
Voltage:	24 V AC/DC
Order No.:	639 300 01

Optical Signal Elements

	TwinLIGHT	TwinFLASH
Light effects:	LED Permanent light, LED Blinking light, adjustable via slide switch	LED Flashing light, LED EVS light, adjustable via slide switch
Voltage:	24 V AC/DC	24 V DC
Current consumption:	< 50 mA	< 65 mA
red	634 110 75	634 120 55
green	634 210 75	634 220 55
yellow	634 310 75	634 320 55
white	634 430 75	634 440 55
blue	634 510 75	634 520 55

	Multicolour
Light effects:	LED Permanent light
Colours:	Red, yellow, green, blue, white, violet, turquoise controlled by binary inputs
Voltage:	24 V DC
Current consumption:	< 100 mA
Order No.:	634 450 55

Audible Signal Elements



	2 Tone Siren	8 Tone Siren
Dimensions (Ø x Height):	40 mm x 45 mm	40 mm x 68 mm
Housing:	PC	PC
Sound output:	85 dB (A)	89-95 dB (A), can be set via slide switch
Tone type:	Continuous or pulse tone, can be set via slide switch	8 tones, can be set via slide switch
Voltage:	24 V AC/DC	24 V AC/DC
Current consumption:	< 80 mA	< 200 mA
Order No.:	635 800 75	635 810 75



Terminal Element

Housing:	PC
Dimensions (Ø x Height):	40 mm x 40 mm
Cable entry:	Cable diameter max. 9 mm
Connection:	Push-in terminal max. 1,5 mm ²
Voltage:	24 V AC/DC
Order No.:	630 800 75



 **IO-Link**

IO-Link Terminal element

Housing:	PC
Dimensions (Ø x Height):	40 mm x 58,6 mm
Cable entry:	Cable diameter max. 9mm
Connection:	Push-in terminal max. 0,75 mm ²
Voltage:	24 V via IO-Link
Current consumption:	10 mA
Order No.:	631 800 55



Adapter for base mounting

Housing:	PC
Dimensions (Ø x Height):	40 mm x 30 mm
Order No.:	630 810 00



Adapter for single hole mounting

Housing:	PC
Dimensions (Ø x Height):	40 mm x 54 mm
Order No.:	630 820 00



Adapter for tube mounting

Housing:	PC
Dimensions (Ø x Height):	40 mm x 75 mm
Order No.:	630 830 00

Use our configurators at www.werma.com to put together the right tower quickly and easily.



KombiSIGN 40 - DesignLOOK

Diameter	40 mm
Dimensions optical signal element (Ø x Height)	40 mm x 58,6 mm
Protection rating	IP 66
Number of tiers possible	1-5
Interface optional	IO-Link
Life duration Optical Signal Elements/ Audible Signal Elements	50.000 h
Lens	PC, transparent



Pre-assembled signal tower - green/yellow/red

	TwinLIGHT
Light effects:	LED Permanent light, LED Blinking light, adjustable via slide switch
Dimensions (Ø x Height):	40 mm x 214 mm
Voltage:	24 V AC/DC
Order No.:	639 301 01

Optical Signal Elements

	TwinLIGHT	TwinFLASH
Light effects:	LED Permanent light, LED Blinking light, adjustable via slide switch	LED Flashing light, LED EVS light, adjustable via slide switch
Voltage:	24 V AC/DC	24 V DC
Current consumption:	< 50 mA	< 65 mA
red	634 130 75	634 140 55
green	634 230 75	634 240 55
yellow	634 330 75	634 340 55
white	634 430 75	634 440 55
blue	634 530 75	634 540 55

	Multicolour
Light effects:	LED Permanent light
Colours:	Red, yellow, green, blue, white, violet, turquoise controlled by binary inputs
Voltage:	24 V DC
Current consumption:	< 100 mA
Order No.:	634 450 55



Audible Signal Elements

	2 Tone Siren	8 Tone Siren
Dimensions (Ø x Height):	40 mm x 45 mm	40 mm x 68 mm
Housing:	PC	PC
Sound output:	85 dB (A)	89-95 dB (A), can be set via slide switch
Tone type:	Continuous or pulse tone, can be set via slide switch	8 tones, can be set via slide switch
Voltage:	24 V AC/DC	24 V AC/DC
Current consumption:	< 80 mA	< 200 mA
Order No.:	635 700 75	635 710 75



Terminal Element

Dimensions (Ø x Height):	40 mm x 40 mm
Housing:	PC
Cable entry:	Cable diameter max. 9 mm
Connection:	Push-in terminal max. 1,5 mm ²
Voltage:	24 V AC/DC
Order No.:	630 700 75



 **IO-Link**

IO-Link Terminal element

Dimensions (Ø x Height):	40 mm x 58,6 mm
Housing:	PC
Cable entry:	Cable diameter max. 9mm
Connection:	Push-in terminal max. 0,75 mm ²
Voltage:	24 V via IO-Link
Current consumption:	10 mA
Order No.:	631 400 55



Adapter for base mounting

Dimensions (Ø x Height):	40 mm x 30 mm
Housing:	PC
Order No.:	630 710 00



Adapter for single hole mounting

Dimensions (Ø x Height):	40 mm x 54 mm
Housing:	PC
Order No.:	630 720 00



Adapter for tube mounting

Dimensions (Ø x Height):	40 mm x 75 mm
Housing:	PC
Order No.:	630 730 00

Use our configurators at www.werma.com to put together the right tower quickly and easily.



KOMPAKT 37

Dimensions (∅ x Height)	1 tier: 37,5 mm x 93,5 mm 2 tier: 37,5 mm x 127,5 mm 3 tier: 37,5 mm x 161,5 mm 4 tier: 37,5 mm x 195,5 mm 5 tier: 37,5 mm x 229,5 mm (Protrusion from panel)
Protection rating	IP 65
Housing	PC
Fixing	Single hole mounting for ∅ 22.5 mm (M22 x 1.5 mm) Base or bracket mounting (accessory)
Connection	Cable connection: Cable, 2 m long Plug connection: M12 Plug (1/2/3 tier: 5 pole; 4/5 tier: 8 pole)
Current consumption	50 mA per tier / buzzer 24 V 125 mA per tier / buzzer 12 V
Sound output	85 dB



ClassicLOOK with buzzer

		Connection	24 V AC/DC
1 tier	red	Plug	699 610 75
	yellow	Plug	699 630 75
2 tier	green/red	Cable	699 120 75
	yellow/red	Cable	699 130 75
	green/red	Plug	699 220 75
	yellow/red	Plug	699 230 75
3 tier	green/yellow/red	Cable	699 110 75
	green/yellow/red	Plug	699 210 75
4 tier	clear/green/yellow/red	Cable	699 210 75
	blue/green/yellow/red	Cable	699 210 75
	clear/green/yellow/red	Plug	699 240 75
	blue/green/yellow/red	Plug	699 250 75
5 tier	blue/clear/green/yellow/red	Cable	699 160 75
	blue/clear/green/yellow/red	Plug	699 260 75

ACCESSORIES

	ClassicLOOK	DesignLOOK
Base with integrated tube	960 698 01	960 698 03
Extension tube	960 698 02	960 698 04
Cable 5 m with M12 plug (5 pole)	960 693 05	960 693 05
Cable 5 m with M12 plug (8 pole)	960 000 47	960 000 47
Cable 5 m with M12 connector and plug (8 pole)	960 000 46	960 000 46
Bracket for assembly on aluminium profiles	960 630 02	960 630 06





ClassicLOOK without buzzer

		Connection	24 V AC/DC	12 V AC/DC
2 tier	green/red	Cable	698 120 75	698 120 74
	yellow/red	Cable	698 130 75	-
	green/red	Plug	698 220 75	-
	yellow/red	Plug	698 230 75	-
3 tier	green/yellow/red	Cable	698 110 75	698 110 74
	green/yellow/red	Plug	698 210 75	-
4 tier	clear/green/yellow/red	Cable	698 210 75	-
	blue/green/yellow/red	Cable	698 210 75	-
	clear/green/yellow/red	Plug	698 240 75	-
	blue/green/yellow/red	Plug	698 250 75	-
5 tier	blue/clear/green/yellow/red	Cable	698 160 75	-
	blue/clear/green/yellow/red	Plug	698 260 75	-

DesignLOOK with buzzer

		Connection	24 V AC/DC
1 tier	red	Plug	699 810 75
	yellow	Plug	699 830 75
2 tier	green/red	Cable	699 320 75
	yellow/red	Cable	699 330 75
	green/red	Plug	699 420 75
	yellow/red	Plug	699 430 75
3 tier	green/yellow/red	Cable	699 310 75
	green/yellow/red	Plug	699 410 75
4 tier	clear/green/yellow/red	Cable	699 340 75
	blue/green/yellow/red	Cable	699 350 75
	clear/green/yellow/red	Plug	699 440 75
	blue/green/yellow/red	Plug	699 450 75
5 tier	blue/clear/green/yellow/red	Cable	699 360 75
	blue/clear/green/yellow/red	Plug	699 460 75



DesignLOOK without buzzer

		Connection	24 V AC/DC
2 tier	green/red	Cable	698 320 75
	yellow/red	Cable	698 330 75
	green/red	Plug	698 420 75
	yellow/red	Plug	698 430 75
3 tier	green/yellow/red	Cable	698 310 75
	green/yellow/red	Plug	698 410 75
4 tier	clear/green/yellow/red	Cable	698 340 75
	blue/green/yellow/red	Cable	698 350 75
	clear/green/yellow/red	Plug	698 440 75
	blue/green/yellow/red	Plug	698 450 75
5 tier	blue/clear/green/yellow/red	Cable	698 360 75
	blue/clear/green/yellow/red	Plug	698 460 75



SIGNAL BEACONS

WERMA's beacons help you indicate risks and imminent danger promptly and clearly. This allows you to make your processes safe and efficient. Simply safe. Simply better. This is what we call intelligent signal technology.

Micro Installation Beacons



Despite their size, micro installation beacons will provide good all-round visibility. The range includes control panel indicator lights.

- The industry standard for control panels
- Easy to install, even where space is restricted

Protection rating	IP 65
Dimensions (∅ x Height)	29 mm x 32 mm (Protrusion from panel)
Housing	PC/ABS-Blend
Lens	PC, transparent
Life duration	Up to 100,000 h



230 - LED Installation Beacon

Connection	2 wires, c. 115 mm long			
Fixing	Installation mounting for \varnothing 20,5 mm (M20 x 1,5 mm)			
Voltage	12 V DC	24 V DC	115 V AC	230 V AC
Current consumption	< 80 mA	< 45 mA	< 15 mA	< 20 mA
red	230 100 54	230 100 55	230 100 67	230 100 68
yellow	230 300 54	230 300 55	230 300 67	230 300 68
clear	-	230 400 55	-	-

Further colours on request



231 - LED Installation Beacon

Connection	2 wires, c. 105 mm long			
Fixing	Installation mounting for \varnothing 22,5 mm (M22 x 1,5 mm)			
Voltage	12 V DC	24 V DC	115 V AC	230 V AC
Current consumption	< 80 mA	< 45 mA	< 15 mA	< 20 mA
red	231 100 54	231 100 55	231 100 67	231 100 68
green	231 200 54	231 200 55	231 200 67	231 200 68
yellow	231 300 54	231 300 55	231 300 67	231 300 68
clear	231 400 54	231 400 55	231 400 67	231 400 68
blue	231 500 54	231 500 55	231 500 67	231 500 68

232 - Installation Xenon Flashing Beacon

Connection	2 wires, c. 105 mm long			
Fixing	Installation mounting for \varnothing 22,5 mm (M22 x 1,5 mm)			
Voltage	12 V DC	24 V DC	115 V AC	230 V AC
Current consumption	< 80 mA	< 45 mA	< 15 mA	< 20 mA
red	231 100 54	231 100 55	231 100 67	231 100 68
green	231 200 54	231 200 55	231 200 67	231 200 68
yellow	231 300 54	231 300 55	231 300 67	231 300 68
clear	231 400 54	231 400 55	231 400 67	231 400 68
blue	231 500 54	231 500 55	231 500 67	231 500 68



Mini Installation Beacons

WERMA's mini installation beacons are perfect for use on machinery, and control panels. The colours can be set quite simply by means of binary inputs.



- Up to five different colours with just one light
- Low lens, where space is restricted
- Raised lens for best visibility also side-on

Protection rating	IP 65
Housing	PC/ABS-Blend, black
Lens	PC, transparent
Life duration	Up to 50,000 h



239 - LED Installation Beacon (Multicolour)

Dimensions (Ø x Height)	50 x 22 mm (Protrusion from panel)
Fixing	Installation mounting for Ø 22,5 mm (M22 x 1,5 mm)
Colour options	Red, yellow, green, white, blue (Multicolour)
Connection	Screw terminal max. 0,5 mm ² (239 480 55) Push In max. 1,5 mm ² (239 482 55)
Voltage	24 V DC
Current consumption	< 75 mA
Low lens, clear	239 480 55
Raised lens, opaque	239 482 55



239 - LED Installation Beacon (Multicolour) for AS-Interface

Dimensions (Ø x Height)	50 x 31 mm (Protrusion from panel)
Fixing	Installation mounting for Ø 22,5 mm (M22 x 1,5 mm)
Colour options	Red, yellow, green, weiß, blue (Multicolour)
Connection	Screw terminal with wire protection max. 1,5 mm ²
Operating voltage	25 V ... 31,6 V according to the AS-Interface specification
Current consumption	< 100 mA
Order no.	239 780 55





240 - LED Installation Beacon (Multicolour)

Dimensions (Ø x Height)	55 x 46 mm (Protrusion from panel)			
Fixing	Installation mounting M30			
Colour options	Red, yellow, green, white, blue (Multicolour) Red, yellow, green (Tricolour)			
Light effect	Permanent Light Blinking Light/Permanent Light (240 110 50)			
Without Buzzer	Voltage	Current consumption	Plug M12	Cable
Tricolour (RGY)	24 V DC	45 mA	240 220 55	240 210 55
Multicolour (RGB)	10-30 V DC	60 mA	240 120 50	240 110 50



Mini Installation Beacons - PG29 (Ø 37mm)

Protection rating	IP 65
Dimensions (Ø x Height)	75 mm x 66 mm (Protrusion from panel)
Housing	PC/ABS-Blend Socket: PA-GF, high impact
Lens	PC, transparent Shock resistance 20 Joules according to EN 60079-0
Cable entry	Cable diameter max. 10 mm
Fixing	Installation mounting für Ø 37 mm (PG29)
Connection	Screw terminal 0,5 - 1,5 mm ²



816 - LED Permanent Beacon

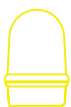
Life duration	Up to 100,000 h		
Voltage	24 V AC/DC	115 V AC	230 V AC
Current consumption	45 mA	25 mA	25 mA
red	816 100 55	816 100 67	816 100 68
green	816 200 55	816 200 67	816 200 68
yellow	816 300 55	816 300 67	816 300 68
clear	816 400 55	816 400 67	816 400 68

816 - LED Blinking Beacon

Blink frequency	C. 1 Hz
Life duration	Up to 50,000 h
Voltage	24 V AC/DC
Current consumption	25 mA
red	816 110 55
yellow	816 310 55

816 - LED Permanent Beacon Multicolour with USB Interface

Connection	Mini USB 2.0, downward cable outlet
Colour options	More than 200,000 colours (RGB LED)
Suitable for	Windows®, System requirements - see handbook
Assembly	LED beacon, demo software, driver and USB connection cable included 1.8 m long
Life duration	Up to 50,000 h
Voltage	5 V (USB-Connection)
Current consumption	≤ 500 mA
clear lens	816 480 53
opaque lens	816 780 53





817 - Flashing Beacon (Xenon)

Flash frequency	Ca. 1 Hz			
Flash energy	2 Ws			
Life duration	4 x 10 ⁶ flashes			
Voltage	12 V DC	24 V DC	115 V AC	230 V AC
Current consumption	< 195 mA	< 125 mA	< 20 mA	< 35 mA
red	817 100 54	817 100 55	817 100 67	817 100 68
yellow	817 300 54	817 300 55	817 300 67	817 300 68



815 - Permanent Beacon

Operating voltage	12-230 V
Bulb socket	BA 15d, 5 Watt max.
Bulb replacement	Via rear access with bayonet mechanism
Bulb not included in assembly	
Voltage	12-230 V
red	815 100 00
green	815 200 00
yellow	815 300 00
clear	815 400 00
blue	815 500 00

Accessories 815/816/817

Tube adaptor	975 812 01
Base with integrated tube, Ø 25 mm, 110 mm lang, plastic	975 840 10
Base for tube mounting	975 840 90
Base for base mounting	975 812 02
Tube Ø 25 mm, all anodised aluminium 100 mm lang	975 845 10
250 mm long	975 840 25
400 mm long	975 840 25
Anti-twist device	975 815 22
Surface housing IP65 for 1 Installation Beacon	975 815 03
for 2 Installation Beacons	975 815 07
for 3 Installation Beacons	975 815 08
for 4 Installation Beacons	975 109 05

Accessories 815

Bulb BA 15d, 5 W, total length 42 mm

Voltage	12 V AC/DC	24 V AC/DC	30 V AC/DC	115 V AC/DC	230 V AC/DC
	955 840 34	955 840 35	955 840 32	955 840 57	955 840 38





816 - LED Permanent Beacon Multicolour

Connection	M12 plug (4 pole)
Colour options	Red, yellow, green, white, blue, violet, turquoise (multicolour)
Life duration	Up to 50,000 hrs
Voltage	24 V AC/DC
Current consumption	< 120 mA
clear lens	816 480 55
opaque lens	816 780 55

Accessories 816 LED Permanent Beacon Multicolour

Cable 5m with M12 plug	960 693 05
Base for base mounting	975 812 02
Tube adaptor	975 812 01
Base with integrated tube, Ø 25 mm, 110 mm long, plastic	975 840 10
Tube Ø 25 mm, all anodised aluminium 100 mm long	975 845 10
250 mm long	975 840 25
400 mm long	975 840 40
Base for tube mounting, metal	975 840 91
Anti-twist device	975 815 22

Mini Installation Beacon - PG29 (Ø 37mm)

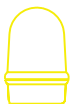
Protection rating	IP 65
Dimensions (Ø x Height)	57 mm x 54 mm (Protrusion from panel)
Housing	PC/ABS-Blend Socket: PA-GF, high impact
Lens	PC, transparent
Fixing	Installation mounting für Ø 37 mm (PG29)
Connection	Screw terminal 0,5 - 1,5 mm²



801 - Permanent Beacon

Life duration	Up to 100,000 h		
Voltage	24 V AC/DC	115 V AC	230 V AC
Current consumption	45 mA	25 mA	25 mA
red	801 100 75	801 100 67	801 100 68
green	801 200 75	801 200 67	801 200 68
yellow	801 300 75	801 300 67	801 300 68

Further colours and voltages on request





802 - Xenon Installation Flashing Beacon

Flash frequency	0,75 Hz		
Flash energy	1 Ws		
Life duration	4 x 10 ⁶ flashes		
Voltage	24 V AC/DC	115 V AC	230 V AC
Current consumption	100 mA	20 mA	30 mA
red	802 100 55	802 100 67	802 100 68
yellow	802 300 55	802 300 67	802 300 68

Further colours and voltages on request



800 - Permanent Beacon

Bulb socket	BA15d, 5 Watt max.
Bulb change	Via rear access with bayonet mechanism
Bulb not included in assembly	
Voltage	12-230 V
red	800 100 00
green	800 200 00
yellow	800 300 00
clear	800 400 00
blue	800 500 00

Accessories 800/801/802

Tube adaptor	975 812 01
Base with integrated tube, Ø 25 mm, 110 mm long, plastic	975 840 10
Base for tube mounting	975 840 90
Base for base mounting	975 812 02
Tube Ø 25 mm, all anodised aluminium 100 mm long	975 845 10
250 mm long	975 840 25
400 mm long	975 840 25
Anti-twist device	975 815 22
Surface housing IP65 for 1 Installation Beacon	975 815 03
for 2 Installation Beacons	975 815 07
for 3 Installation Beacons	975 815 08
for 4 Installation Beacons	975 109 05

Accessories 800

see above

Bulb BA 15d, 5 W, total length 42 mm

Voltage	12 V AC/DC	24 V AC/DC	30 V AC/DC	115 V AC/DC	230 V AC/DC
	955 840 34	955 840 35	955 840 32	955 840 57	955 840 38



The type of optical signal used depends on the application and the surroundings. With Evo*SIGNAL*, finding the right signal device has never been so easy: Almost all areas of application are optimally covered by only three sizes of beacon with specific mounting adapters. The new modular, simple and clear standard solution. Evo*SIGNAL* is one of a kind.



- Simple and easy to use: Number of different part numbers reduced to 20% whilst retaining a full range capability
- Twin functions: Twin*LIGHT* and Twin*FLASH* provide two light pattern functions in one element. They can be remote-controlled via connection terminals and also used as escalation levels
- Poka Yoke: Simple and intuitive installation - incorrect installation is impossible
- Mini and Midi also available as Tri*COLOUR* variants
- Maxi Twin*FLASH* can be used as an attention-grabbing alternative to xenon strobes and rotating mirror beacons



EvoSIGNAL - Mini

Protection rating	IP 66
Dimensions (Ø x Height)	62 mm x 85 mm
Housing	PC/ABS
Lens	PC, transparent
Available versions	Optical, Optical-audible, Audible
Available light effects	TwinLIGHT, TwinFLASH
Cable entry	Cable diameter 8-12 mm
Connection	Push-In terminal max. 1,5 mm ²
Fixing	Base/Installation/Tube/Wall mounting
Flash/Blink frequency	1 Hz



260 - Optical

	TwinLIGHT	TwinFLASH
Voltage	24 V AC/DC	24 V AC/DC
Current consumption	≤ 75 mA	≤ 75 mA
red	260 110 75	260 120 75
green	260 210 75	260 220 75
yellow	260 310 75	260 320 75
white	260 410 75	260 420 75
blue	260 510 75	260 520 75
TriCOLOUR		
Voltage	24 V AC/DC	
Current consumption	≤ 90 mA	
Order no.	260 430 75	



Mounting adapter

Always required!

Base mounting	260 700 01
Installation mounting M22	260 700 03
Installation mounting PG29	260 700 04
Tube mounting	260 700 05
Bracket mounting with cable gland	260 700 06
Bracket mounting	260 700 07



HORNS AND SOUNDERS

Audible signals warn, protect and guide us in the modern industrial world. They should be installed where caution, prudence and clarity are imperative, indicate emergencies and demand direct action. They are globally understood, irrespective of language, written or spoken.

Installation Buzzers and Sounders



WERMA Installation Buzzers and Sounders have been specifically designed for easy installation in control panels.

- Quick and easy installation
- Tamper-proof when installed
- Minimal protrusion from panel installations where space is tight



Electronic Installation Buzzer

Protection rating	IP 65
Fixing	Installation mounting for \varnothing 22,5 mm (M22) With anti-twist device (109)
Connection	Connector plug with screw terminal max. 1,5 mm²
Tone type	Continuous tone or pulse tone with approx. 1 Hz
Life duration	Up to 5.000 h



107 - Electronic Installation Buzzer

Dimensions (\varnothing x Height)	28 mm x 12 mm (Protrusion from panel)			
Housing	PA fibreglass, high-impact			
Tone frequency	C. 2,400 Hz / c. 3,200 Hz (12 V)			
Voltage	12 V AC/DC	24 V AC/DC	115 V AC	230 V AC
Current consumption	\leq 10 mA	\leq 8 mA	\leq 8 mA	\leq 8 mA
Continuous tone	107 100 54	107 000 75	107 000 77	107 000 68
Pulse tone	107 010 54	107 010 75	107 010 77	107 010 68



109 - Electronic Installation Buzzer

Dimensions (\varnothing x Height)	52 mm x 35 mm (Protrusion from panel)		
Housing	PC/ABS-Blend; Cap: PC		
Tone frequency	C. 2,100 Hz		
Voltage	24 V AC/DC	115 V AC	230 V AC
Current consumption	$<$ 25 mA	$<$ 25 mA	$<$ 25 mA
Continuous tone	109 000 75	109 000 77	109 000 68
Pulse tone	109 010 75	109 010 77	109 010 68

Electronic Installation Multi-Tone Sounder

Dimensions (\varnothing x Height)	72 mm x 40 mm (Protrusion from panel)
Protection rating	IP 65
Fixing	Installation mounting for \varnothing 22,5 mm (M22), with anti-twist device
Connection	Connector plug with screw terminal max. 1,5 mm²
Tone types	8 tones selectable on rear side of housing, max. 100 dB
Life duration	Up to 5.000 h



110 - Electronic Installation Multi-Tone Sounder

Voltage	24 V AC/DC	115 V AC	230 V AC
Current consumption	$<$ 80 mA	$<$ 40 mA	$<$ 40 mA
Order no.	110 000 75	110 000 67	110 000 68



EvoSIGNAL - Mini

Protection rating	IP 66
Dimensions (Ø x Height)	62 mm x 85 mm
Housing	PC/ABS
Lens	PC, transparent
Available versions	Optical, Optical-audible, Audible
Available light effects	TwinLIGHT, TwinFLASH
Cable entry	Cable diameter 8-12 mm
Connection	Screw terminal max. 1,5 mm ²
Fixing	Base/Installation/Tube/Wall mounting



160 - Audible

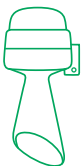
Voltage	24 V AC/DC
Current consumption	≤ 40 mA
Tone type	Continuous or pulse
Order no.	160 700 75



Mounting adapter

Always required!

Base mounting	260 700 01
Installation mounting M22	260 700 03
Installation mounting PG29	260 700 04
Tube mounting	260 700 05
Bracket mounting with cable gland	260 700 06
Bracket mounting	260 700 07



EvoSIGNAL - Midi

Protection rating	IP 66
Dimensions (Ø x Height)	85 mm x 130 mm
Housing	PC/ABS
Lens	PC, transparent
Available versions	Optical, Optical-audible, Audible
Available light effects	TwinLIGHT, TwinFLASH, Rundum
Cable entry	Cable diameter 8-12 mm
Connection	Screw terminal max. 1,5 mm ²
Fixing	Base/Tube/Wall mounting



161 - Audible

Voltage	12/24 V AC/DC
Current consumption	≤ 175 mA
Tone type	Multi-tone
Order no.	161 700 70

Mounting adapter

Always required!

Base mounting	261 700 01
Base mounting mit seittl. Kabelverschraubung	261 700 02
Tube mounting	261 700 05
Bracket mounting with cable gland	261 700 06
Bracket mounting	261 700 07
Horn	261 700 03



OPTICAL-AUDIBLE COMBINATIONS

Large installations are often managed by only a few people, especially in automated production facilities and large machine shops. This results in optical signals not always being in the machine operator's immediate field of vision. In such cases, an audible signal may also be used.



Installation Combination Beacon with Buzzer



Optical audible Installation Combinations give excellent all-round visibility of the signal and are an industry standard for easy installation in control panels.

- Easy to install
- Tamper-proof when installed
- Minimal protrusion from panel for installations where space is limited
- Acknowledgement function promotes faster response time and fault repair (450 series)

Protection rating	IP 65
Fixing	Installation mounting for Ø 22.5 mm
Cable entry	Cable diameter max. 9 mm
Tone type	Continuous or pulse tone, selectable
Life duration	> 5.000 h
Duty cycle	100 %



LED Permanent Light/Buzzer Combination

Protection rating	IP65
Dimensions (∅ x Height)	50 mm x 22 mm (Protrusion from panel)
Housing	PC/ABS-Blend
Lens	PC, transparent
Tone type	Continuous
Tone frequency	C. 2,8 Hz
Duty cycle	100 %
Life duration	Upt to 50,000 h
Fixing	Installation mounting for ∅ 22,5 mm (M22 x 1,5 mm) with anti-twist Nut and seal included in assembly



150 - LED Permanent Light/Buzzer Combination

Connection	Connector plug with screw terminal max. 1,5 mm ²		
Voltage	24 V DC	115 V AC	230 V AC
Current consumption	< 50 mA	< 20 mA	< 20 mA
red	150 100 55	150 100 67	150 100 68
yellow	150 300 55	150 300 67	150 300 68



450 - LED Permanent Light/Buzzer Combination with acknowledgement function

Connection	Screw terminal max. 0,5 mm ²
Signal input	24 V DC
Acknowledgement output	Semiconductor-Relay $U_{max} = 30 V$ $I_{max} = 100 mA$ $R_{ON_{max}} = 25 Ohm$
Voltage	24 V DC
Current consumption	< 40-80 mA
red	450 100 55
yellow	450 300 55



EvoSIGNAL - Mini

Protection rating	IP 66
Dimensions (Ø x Height)	62 mm x 85 mm
Housing	PC/ABS
Lens	PC, transparent
Available versions	Optical, Optical-audible, Audible
Available light effects	TwinLIGHT, TwinFLASH
Cable entry	Cable diameter 8-12 mm
Connection	Screw terminal max. 1,5 mm ²
Fixing	Base/Installation/Tube/Wall mounting
Flash/Blink frequency	1 Hz



460 - Optical-audible

	TwinLIGHT	TwinFLASH
Voltage	24 V AC/DC	24 V AC/DC
Current consumption	≤ 115 mA	≤ 115 mA
Tone type	Continuous or pulse	Continuous or pulse
red	460 110 75	460 110 60
green	460 210 75	460 210 60
yellow	460 310 75	460 310 60
white	460 410 75	460 410 60
blue	460 510 75	460 510 60



Mounting adapter

Always required!

Base mounting	260 700 01
Installation mounting M22	260 700 03
Installation mounting PG29	260 700 04
Tube mounting	260 700 05
Bracket mounting with cable gland	260 700 06
Bracket mounting	260 700 07







240 - LED Installation Beacon (Multicolour) with buzzer

Dimensions (Ø x Height)	55 x 46 mm (Protrusion from panel)			
Housing	PC/ABS-Blend, black			
Lens	PC, transparent			
Fixing	Installation mounting M30			
Colour options	Red, yellow, green, white, blue (Multicolour) Red, yellow, green (Tricolour)			
Life duration light	Up to 50,000 hrs			
Life duration buzzer	Up to 5,000 hrs			
Tone types and frequency	Pulse tone, 3400 Hz			
Light effect	Permanent Light Blinking Light/Permanent Light (240 130 50)			
With Buzzer	Voltage	Current consumption	Plug M12	Cable
Tricolour (RGY)	24 V DC	45 mA	240 240 55	240 230 55
Multicolour (RGB)	10-30 V DC	60 mA	240 140 50	240 130 50



WERMA Signaltechnik GmbH + Co. KG
Dürbheimer Str. 15
D-78604 Rietheim-Weilheim
Germany
Phone +49 7424 9557-0
Fax +49 7424 9557-44
www.werma.com
info@werma.com

WERMA Signaltechnik
Niederlassung Neuhausen am Rhf.
Rheingoldstrasse 50
8212 Neuhausen am Rheinfl
Switzerland
Phone +41 52 674 0060
Fax +41 52 674 0066
www.werma.ch
info@werma.ch

WERMA Italia S.r.l.
Via dell'Artigianato 42
29122 Piacenza
Italia
Mobile +39 340 4 58 07 09
www.werma.it
info@werma.it

WERMA SARL
56, Rue Collière
69780 Mions
France
Phone +33 47222 3737
Fax +33 472 22 3764
www.werma.fr
info@werma.fr

WERMA BENELUX
Poortakkerstraat 41C
9051 Sint-Denijs-Westrem
Belgium
Phone +32 9 220 31 11
www.wermabenelux.com
info@wermabenelux.com

WERMA (UK) Ltd.
11 Regent Park
37 Booth Drive
Park Farm Industrial Estate
Wellingborough NN8 6GR
Great Britain
Phone +44 1536 486930
Fax +44 1536 514810
www.werma.co.uk
uksales@werma.co.uk

WERMA USA Inc.
1266 Oakbrook Drive, Suite A
Norcross, GA 30093 USA
Phone +1 315 414 0200
www.werma.com
us-info@werma.com

WERMA (Shanghai) Co., Ltd.
Building 8, No. 85, Mingnan Road,
Songjiang, Shanghai, P. R. C
201613
China
Phone +86 21 5774-0022
Fax +86 21 5774-6601
www.werma.com.cn
info@werma.com.cn



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