Signal devices for machine tools and equipment applications

Supporting and securing processes.

OPTIMISING PROCESSES

Our system solutions play an important part in machine tool and equipment applications by monitoring processes and providing companies with a complete transparency of their operations. As a manufacturer you benefit for your customers from all of the advantages we provide such as reliability, safety and performance. We supply innovative solutions which are simple to install and easy to use. In this way we have established a durable and maintenance-free industry standard for the lifetime of the machine. The knowledge that it simly works - that's what we call intellgent signal technology at WERMA.

SIGNAL TOWERS - MODULAR

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

Technical details	Kombi*SIGN* 40	Kombi*SIGN* 72	Clear*SIGN*	Clean*SIGN*
Product type	modular	modular	pre-assembled	pre-assembled
Diameter/	40 mm	70 mm	40 mm	70 mm
Dimensions			Ø 104 mm	112 mm x 125 mm
Voltage	24 V	24 V	24 V	24 V
Protection rating	IP 66	IP 65	IP 66	IP 67/IP 69k
Number of tiers possible	1-5	1-5	4	3
Interface	I/O-Link	ASi, USB, I/O-Link	I/O-Link	-

Further versions can be found in our current catalogue or at **www.werma.com.**

There is no need to compromise with the KombiSIGN 72 and 40, because this products combines quick installation, excellent visibility and the highest level of flexibility. This saves 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 surfaces
- Clearly visible from all positions thanks to the OmniVIEW lens with no blind spots
- Completely pre-assembled standard versions are available (common configurations as a complete tower with a single part number)
- Smooth surfaces prevent dirt gathering and make cleaning easy (KombiSIGN 72)

TwinLIGHT

TwinFLASH

IO-Link

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 green yellow white blue	634 110 75 634 210 75 634 310 75 634 430 75 634 510 75	634 120 55 634 220 55 634 320 55 634 440 55 634 520 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 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 green yellow white blue	634 130 75 634 230 75 634 330 75 634 430 75 634 530 75	634 140 55 634 240 55 634 340 55 634 440 55 634 540 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 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.

KombiSIGN 72 - ClassicLOOK

Diameter	70 mm
Protection rating	IP 65
Number of tiers possible	1 - 5
Interface optional	ASi, USB, SmartMONITOR, AndonSPEED

Pre-assembled signal tower - green/yellow/red (Base mounting)

TwinLIGHT

Light effects:	LED Permanent light, LED Blinking light, adjustable via slide switch
Dimensions (Ø x Height):	70 mm x 211,5 mm
Voltage:	24 V AC/DC
Order No.:	649 000 01

Pre-assembled signal tower - green/yellow/red (Tube mounting)

TwinLIGHT

Light effects:	LED Permanent light, LED Blinking light, adjustable via slide switch
Dimensions (Ø x Height):	70 mm x 299 mm
Voltage:	24 V AC/DC
Order No.:	649 000 02

Optical Signal Elements

	TwinLIGHT	TwinFLASH
Dimensions (Ø x Height):	70 mm x 65,5 mm	70 mm x 65,5 mm
Lens:	PC, transparent	PC, transparent
Life duration:	50.000 h	50.000 h
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:	< 80 mA	< 80 mA
red	647 110 75	647 120 55
green	647 210 75	647 220 55
yellow	647 310 75	647 320 55
white	647 430 75	647 440 55
blue	647 510 75	647 520 55

Audible Signal Elements

	2 Tone Siren	8 Tone Siren
Housing:	PC	PC
Life duration:	5.000 h	5.000 h
Dimensions (Ø x Height):	70 mm x 54 mm	70 mm x 54 mm
Sound output:	95-105 dB (A), adjustable by slide switch	86-102 dB (A), can be set via DIP switch
Tone type:	Permanent tone or alternating tone, selectable by slide switch	8 tones, can be set via DIP switch
Voltage:	24 V AC/DC	24 V AC/DC
Current consumption:	< 40 mA	< 30 mA
Order No.:	645 870 75	645 890 75

IO-Link-Element

Dimensions (Ø x Height):	70 mm x 65,5 mm
Voltage:	24 V via IO-Link
Current consumption	< 6 mA
Order No.:	646 840 55

Terminal Elements

Dimensions (Ø x Height):	70 mm x 42,5 mm
Housing:	Terminal element: PA-GF Cap: PC
Fixing:	Base mounting, Tube mounting for tube Ø 25 mm (accessory), Bracket mounting (accessory)
Cable entry:	Cable diameter max. 11 mm
Connection:	CAGE CLAMP® technology max. 1,5 mm^2
Voltage:	12-230 V AC/DC
Base mounting	640 800 00
Tube mounting	640 810 00

Accessories

Base with integrated tube	960 000 51
Bracket for 1-sided mounting	960 000 52
Bracket for base mounting	960 000 53
Bracket for tube mounting	960 000 54
Bracket for base mounting with concealed cable entry	960 000 55
Base for tube Ø 25 mm, plastic	960 000 50

KombiSIGN 72 - DesignLOOK

Diameter	**70 mm**
Protection rating	**IP 65**
Number of tiers possible	**1-5**
Interface optional	**ASi, USB, SmartMONITOR, AndonSPEED**

Pre-assembled signal tower - green/yellow/red (Base mounting)

TwinLIGHT

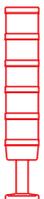|	
Light effects:	LED Permanent light, LED Blinking light, adjustable via slide switch
Dimensions (Ø x Height):	70 mm x 211,5 mm
Voltage:	24 V AC/DC
Order No.:	649 001 01

Pre-assembled signal tower - green/yellow/red (Tube mounting)

TwinLIGHT

Light effects:	LED Permanent light, LED Blinking light, adjustable via slide switch
Dimensions (Ø x Height):	70 mm x 299 mm
Voltage:	24 V AC/DC
Order No.:	649 001 02

Optical Signal Elements

	TwinLIGHT	TwinFLASH
Dimensions (Ø x Height):	70 mm x 65,5 mm	70 mm x 65,5 mm
Lens:	PC, transparent	PC, transparent
Life duration:	50.000 h	50.000 h
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:	< 80 mA	< 80 mA
red green yellow white blue	647 130 75 647 230 75 647 330 75 647 430 75 647 530 75	647 140 55 647 240 55 647 340 55 647 440 55 647 540 55

Audible Signal Elements

	2 Tone Siren	8 Tone Siren
Housing:	PC	PC
Life duration:	5.000 h	5.000 h
Dimensions (Ø x Height):	70 mm x 54 mm	
Sound output:	95-105 dB (A), adjustable by slide switch	86-102 dB (A), can be set via DIP switch
Tone type:	Permanent tone or alternating tone, selectable by slide switch	8 tones, can be set via DIP switch
Voltage:	24 V AC/DC	24 V AC/DC
Current consumption:	< 40 mA	< 30 mA
Order No.:	645 770 75	645 790 75

IO-Link-Element

Dimensions (Ø x Height):	70 mm x 65,5 mm
Voltage:	24 V via IO-Link
Current consumption:	< 6 mA
Order No.:	646 440 55

Terminal Elements

Dimensions (Ø x Height):	70 mm x 42,5 mm
Housing:	Terminal element: PA-GF Cap: PC
Fixing:	Base mounting, Tube mounting for tube Ø 25 mm (accessory), Bracket mounting (accessory)
Cable entry:	Cable diameter max. 11 mm
Connection:	CAGE CLAMP® technology max. 1,5 mm^2
Voltage:	12-230 V AC/DC
Base mounting	640 900 00
Tube mounting	640 910 00

Accessories

Base with integrated tube	960 000 51
Bracket for 1-sided mounting	960 000 52
Bracket for base mounting	960 000 53
Bracket for tube mounting	960 000 54
Bracket for base mounting with concealed cable entry	960 000 55
Base for tube Ø 25 mm, plastic	960 000 50

SIGNAL TOWERS - PRE-ASSEMBLED

Completely pre-assembled WERMA Signal Towers can be ordered as
a compact unit with a single item number, which reduces ordering
and installation expenses.
Impressive features include their stylish design and diverse assembly
options, allowing them to be used in a wide range of areas.

ClearSIGN

The pre-assembled ClearSIGN signal tower combines an appealing industrial design
with the latest cutting-edge LED technology and an innovative interface. The version
with IO-Link interface offers maximum flexibility and various light effects. The signal
tower is ideally suited to modern industrial environments.

- Maximum range of colours using RGB Technology
- Visual display of fi ll levels and temperature conditions
- Set colours and light effects according to your needs with the IO-Link version

Dimensions (ø x Height)	103,2 mm x 320 mm
Protection rating	IP 66
Housing	PC; PC/ABS
Fixing	Base mounting
Cable entry	Cable diameter max. 11 mm
Sound output	85 dB (A)

ClearSIGN red/yellow/green/blue

Connection:	Push-In terminal max. 0,5 mm^2
Light effects:	LED Permanent light or EVS
Voltage:	24 V DC
Current consumption:	130 mA
Order No.:	656 000 03

ClearSIGN RGB-Version

Connection:	Push-In terminal max. 0,5 mm^2
Light effects:	LED Permanent light, with up to 7 colours per tier
Voltage:	24 V DC
Current consumption:	385 mA
Order No.:	656 100 01

ClearSIGN IO-Link Version without buzzer

Connection:	M12 (4 pole)
Light effects:	Various possible settings, over 1 m colour variants possib-leglich
Current consumption:	385 mA
Order No.:	656 100 02

ClearSIGN IO-Link Version with buzzer

Connection:	M12 (4 pole)
Light effects:	Various possible settings, over 1 m colour variants possible
Current consumption:	425 mA
Order No.:	656 100 03

Audible Element

Order No.:	656 000 55

Clean*SIGN*

The Clean*SIGN* signal tower has been specifically developed and certified for use in clean rooms, food and hygiene areas as well as the pharmaceutical industry. The signal tower ensures maximum safety in thess environments by reducing the risk of contamination.

- Reliable signalling even in clean rooms
- Easy-to-clean, hygienic design for optimal cleaning and disinfection
- Ensures food safety through the absence of uneven surfaces, elevated or countersunk elements where dirt can accumulate
- Use of food safe materials and resistant to cleaning agents (FDA approved)
- Application-specific selection of colours and light effects for maximum flexibility
- EHEDG and Fraunhofer IPA approval

Clean*SIGN* - Wall mounting

Dimensions (L x H x W)	**112 mm x 485 mm x 125 mm**
Protection rating	**IP 67/69k**
Voltage	**24 V DC**
Housing	**PA, black**
Lens	**PA, transparent**
Sound output	**85 dB (A)**

Clean*SIGN* red/green/yellow

Connection:	Cable, 2 m long, included in the assembly
Colours:	Pre-set colours: red/yellow/green
Voltage:	24 V DC
Current consumption:	Optical: < 120 mA per tier Buzzer: < 20 mA
Order No.:	695 300 55

Clean*SIGN* RGY

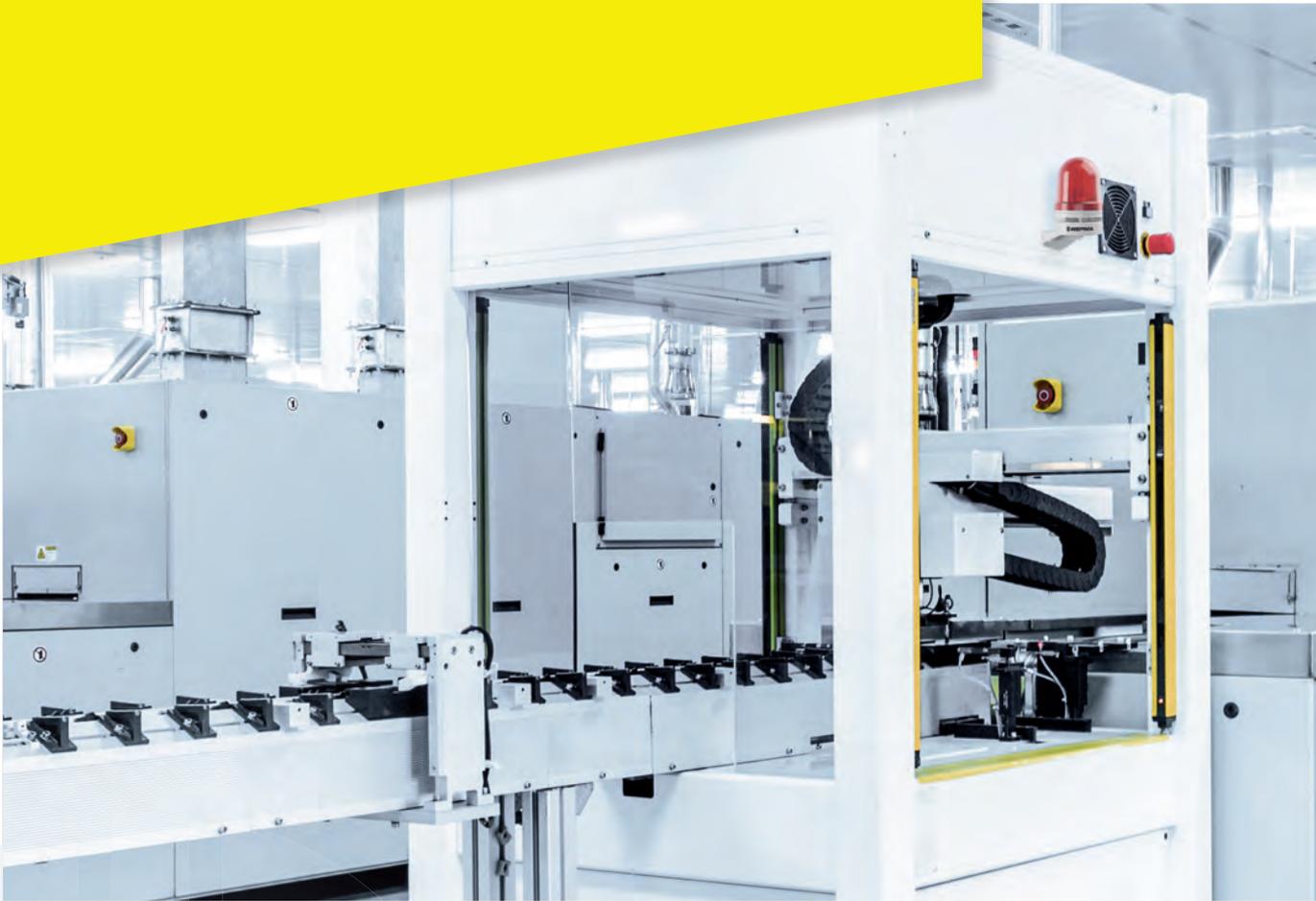|	
Connection:	Screw terminal max. 1,5 mm^2
Colours:	Colours selectable by dip-switch: red/yellow/green
Voltage:	24 V DC
Current consumption:	Optical: < 240 mA Buzzer: < 20 mA
Order No.:	695 200 55

Clean*SIGN* RGB

Connection:	Screw terminal max. 1,5 mm^2
Colours:	Red, yellow, green, white, blue, violet, turquoise Colours selectable by dip-switch
Light effects:	Tier-by-tier illumination: Blinking light Complete illumination: EVS
Voltage:	24 V DC
Current consumption:	Optical: < 250 mA Buzzer: < 20 mA
Order No.:	695 000 55

Clean*SIGN* - Ceiling mounting

Dimensions (L x H x W)	**112 mm x 391 mm x 125 mm**
Protection rating	**IP 67/69k**
Voltage	**24 V DC**
Housing	**PA, black**
Lens	**PA, transparent**
Sound output	**85 dB (A)**

Clean*SIGN* red/green/yellow

Connection:	Cable, 2 m long, included in the assembly
Colours:	Pre-set colours: red/yellow/green
Voltage:	24 V DC
Current consumption:	Optik: < 120 mA per tier Buzzer: < 20 mA
Order No.:	695 310 55

Clean*SIGN* RGY

Connection:	Screw terminal max. 1,5 mm^2
Colours:	Colours selectable by dip-switch: red/yellow/green
Voltage:	24 V DC
Current consumption:	Optical: < 240 mA Buzzer: < 20 mA
Order No.:	695 210 55

Clean*SIGN* RGB

Connection:	Screw terminal max. 1,5 mm^2
Colours:	Red, yellow, green, white, blue, violet, turquoise Colours selectable by dip-switch
Light effects:	Tier-by-tier illumination: Blinking light Complete illumination: EVS
Voltage:	24 V DC
Current consumption:	Optical: < 250 mA Buzzer: < 20 mA
Order No.:	695 010 55

SIGNAL BEACONS & TRAFFIC LIGHTS

WERMA's beacons and traffic lights 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.

The type of optical signals 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 (signal lamps) 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 articles reduced to 20% whilst retaining a full range
- Twin functions: Twin*LIGHT* and Twin*FLASH* unite 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 H)	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/Blinking 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

EvoSIGNAL - Midi

Protection rating	**IP 66**
Dimensions (Ø x H)	**85 mm x 130 mm**
Housing	**PC/ABS**
Lens	**PC, transparent**
Available versions	**Optical, Optical-Audible, Audible**
Available light effects	**Twin*LIGHT*, Twin*FLASH*, Rotating**
Cable entry	**Cable Diameter 8-12 mm**
Connection	**Push-In terminal max. 1,5 mm^2**
Fixing	**Base/Wall/Tube mounting**
Flash/Blinking frequency	**1 Hz**

261 - Optical

	Twin*LIGHT*	Twin*FLASH*	Rotating
Voltage	12/24 V AC/DC	12/24 V AC/DC	12/24 V AC/DC
Current consumption	≤ 185 mA	≤ 850 mA	130 mA
red	261 110 70	261 120 70	261 140 70
green	261 210 70	261 220 70	261 240 70
yellow	261 310 70	261 320 70	261 340 70
white	261 410 70	261 420 70	261 440 70
blue	261 510 70	261 520 70	261 540 70

	Tri*COLOUR*
Voltage	12/24 V AC/DC
Current consumption	≤ 145 mA
Order no.	261 530 70

Mounting adapter

Always required!

Base mounting	261 700 01
Base mounting with cable gland	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

HORNS AND SOUNDERS

Audible signals warn, protect and guide us in the modern industrial world. They function where caution, prudence and clarity are imperative, indicate emergencies and demand direct action. They are globally understood, irrespective of language, written or spoken. The versatility and robustness of WERMA horns and sirens makes them the ideal addition to your machines and systems.

Design-Mehrtonsirenen

WERMA Design Multi-Tone Sounders provide safety and security by providing an audible warning in applications with greater aesthetic requirements. The innovative housing design makes for simple mounting in many diverse applications.

- Ideal signalling effect over great distances
- Many application options with up to 32 tones available. Up to 3 tones can be externally triggered for the escalation of signals
- Includes standardised tones (including those used in fire alarms)

Protection rating	IP 65

140 - Multi-Tone Sounder

Dimensions (Ø x Height):	100 mm x 100 mm
Housing:	PC/ABS-Blend
Connection:	Screw terminal max. 2,5 mm^2
Cable entry:	Cable gland M20 x 1,5 mm Cable gland not included in assembly
Tone types and frequencies:	Selectable via DIP switch
Lautstärke:	115 dB
Installation position:	Sound outlet not facing upwards

Voltage:	9 -28 V DC
Current consumption:	≤ 120 mA
red	140 150 50
white	140 950 50

Voltage:	110-240 V AC
Current consumption:	≤ 40 mA
red	140 150 60
white	140 950 60

ACCESSORIES

Cable gland M20 x 1,5 mm	975 444 01

144 - Multi-Tone Sounder

Dimensions (B x H x T):	109 mm x 112,5 mm x 152 mm
Housing:	PC/ABS-Blend
Connection:	24 V: Screw terminal 0,5 - 1,5 mm^2 115/230 V: CAGE CLAMP®
Cable entry:	Membrane for cable diameter max. 13 mm
Fixing:	Wall, base and ceiling mounting
Tone types and frequencies:	Selectable via DIP switch
Lautstärke:	114 dB

Voltage:	24 V AC/DC	115 V AC	230 V AC
Current consumption:	200 mA	55 mA	30 mA
Order No.:	144 000 75	144 000 67	144 000 68

Accessories

Cable gland M20 x 1,5 mm (for cable strain relief) Protecting rating IP 65 is provided even without cable gland	975 444 01

EvoSIGNAL - Mini

Protection rating	**IP 66**
Dimensions (Ø x H)	**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/Blinking frequency	**1 Hz**

160 - Audible	
Voltage	24 V AC/DC
Current consumption	≤ 40 mA
Tone type	Continuous or pulse tone
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 H)	**85 mm x 130 mm**
Housing	**PC/ABS**
Lens	**PC, transparent**
Available versions	**Optical, Optical-Audible, Audible**
Available light effects	**TwinLIGHT, TwinFLASH, Rotating**
Cable entry	**Cable Diameter 8-12 mm**
Connection	**Push-In terminal max. 1,5 mm^2**
Fixing	**Base/Wall/Tube mounting**
Flash/Blinking frequency	**1 Hz**

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 with cable gland	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 systems 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. This makes the applications of your customers even safer and more reliable.

EvoSIGNAL - Mini

Protection rating	IP 66
Dimensions (Ø x H)	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/Blinking 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 tone	Continuous or pulse tone
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	
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

Evo*SIGNAL* - Midi

Protection rating	**IP 66**
Dimensions (Ø x H)	**85 mm x 130 mm**
Housing	**PC/ABS**
Lens	**PC, transparent**
Available versions	**Optical, Optical-Audible, Audible**
Available light effects	**Twin*LIGHT,* Twin*FLASH*, Rotating**
Cable entry	**Cable Diameter 8-12 mm**
Connection	**Push-In terminal max. 1,5 mm^2**
Fixing	**Base/Wall/Tube mounting**
Flash/Blinking frequency	**1 Hz**

461 - Optical-Audible

	Twin*LIGHT*	Twin*FLASH*
Voltage	12/24 V AC/DC	12/24 V AC/DC
Current consumption	≤ 345 mA	≤ 110 mA
Tonart	Mehrton	Mehrton
red	461 110 70	461 120 70
green	461 210 70	461 220 70
yellow	461 310 70	461 320 70
white	461 410 70	461 420 70
blue	461 510 70	461 520 70

Mounting adapter	
Base mounting	261 700 01
Base mounting with cable gland	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

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