Overview Signal Towers

Whether they are used on machinery and equipment, manual workstations or for access control and point-of-sale systems, WERMA signal towers reliably signal different statuses, such as faults or material replenishment requests. Professional signalling provides your application with greater safety and security and considerably reduces response times. The urgency of the signal can be easily increased using different signal elements. This enables employees to immediately react to faults and quickly resolve any problems that arise.

Monitor your processes, make them reliable and keep them running - saving time and money.
We call this intelligent signalling technology.

Overview Signal Towers					
Product type		modular	modular	modular	pre-assembled
Technical details	Product range	Kombi*SIGN* 40	Kombi*SIGN* 72	Kombi*SIGN* 71	KOMPAKT 37
Diameter*		40 mm	70 mm	70 mm	37.5 mm
Dimensions*					
Voltage	12 V				●
	24 V	●	●	●	●
	115 V			●	
	230 V			●	
Protection rating		IP 66/69k	IP 65	IP 65	IP 65
Number of tiers possible		1-5	1-5	1-5	1-5
Optical Signalisation Index**		3-5	4-6	2-6	3
Audible Signalisation Index**		3-5	5-6	3-6	4
Interface		I/O-Link	ASi, USB, I/O-Link, Smart*MONITOR*	ASi, USB, I/O-Link, Smart*MONITOR*	
Page		Page 26	Page 32	Page 38	Page 48

* Technical diagrams can be found on the product page

** Signalisation Index – see page 13 + 21

Modular Signal Towers

Optical and audible signal elements can be combined flexibly in the modular signal towers. The modular design also enables customers to add other elements separately when required. The mechanical and electrical connection of the signal tower elements takes mere seconds thanks to the bayonet fitting.

Completely pre-assembled Signal Towers

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

pre-assembled	pre-assembled	pre-assembled	pre-assembled	pre-assembled	pre-assembled
deSIGN 42	**ClearSIGN**	**CleanSIGN**	**FlatSIGN**	**VarioSIGN**	**Ex Signal Tower**
42 mm	40 mm	70 mm	-	-	37.5 mm
	Ø 104 mm	112 mm x 125 mm	195 mm x 105 mm	62 mm x 90 mm	76 mm x 75 mm
●	●	●	●	●	●
			●		
			●		
IP 65	IP 66	IP 67/IP 69k	IP 65	IP 65	IP 65
2-3	3-4	3	3	3	2-3
3	3-4	3-5	2-3	3-5	3
	3	3	2	3	
	I/O-Link				
Page 52	Page 54	Page 56	Page 58	Page 60	Page 62

KombiSIGN 40 - Modular Signal Tower

Your benefits

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 time and money with regard to installation and order logistics.

- Save up to 50% on installation time thanks to self-explanatory connections and intuitive mechanics
- Maximum flexibility despite a small number of variants
- 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
- Pre-configured standard versions are available (common configurations as a complete tower with a single part number)

Typical applications

Fault signalling

- on machinery and equipment
- on automated systems
- in assembly plants, for example, in the automotive industry

Installation options

- Base mounting
- Tube mounting
- Single-hole mounting
- Additional Installation options using accessories

Features

- Multicolour element offers up to seven colours in a single element
- High IP66/69k protection rating prevents ingress of dust and water
- Compact and high-output 95 dB siren
- Optionally available with IO-Link technology
- IP69k allows high pressure washing

TwinLIGHT
TwinFLASH

IO-Link

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Size comparison KombiSIGN 40/72

Signalisation Index					
Optical			**Audible**		
LED Permanent Light		2	Continuous tone		3
LED Blinking Light		4	Pulse tone		4
LED Flashing Light		5	Multi tone		5
LED EVS Light		5			

How to assemble your Kombi*SIGN* 40 signal tower

Classic*LOOK*

Design*LOOK*

STEP 1
Select the required optical or audible elements.
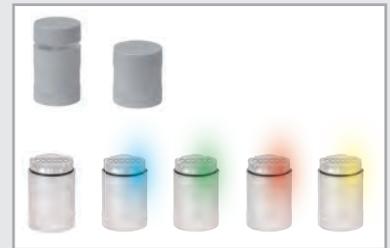Order numbers can be found on page 29.

Audible Signal Element
• 8 tone siren
• 2 tone siren
Optical Signal Elements
• Twin*LIGHT*
• Twin*FLASH*
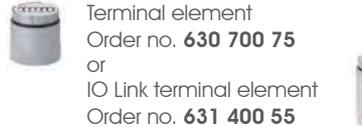• LED Permanent light element multicolour

STEP 2
Select the terminal element and appropriate mounting solution for your application.

Terminal element
Order no. **630 800 75**
or
IO Link terminal element
Order no. **631 800 55**

Terminal element
Order no. **630 700 75**
or
IO Link terminal element
Order no. **631 400 55**

STEP 3
Optional:
Where appropriate, select the Extension tube. Can be installed between the terminal element and the mounting adapter.

Extension tube
Order no.
960 630 03

Extension tube
Order no.
960 630 07

Tube Mounting	**Single Hole Mounting**	**Base Mounting**	**Tube Mounting**	**Single Hole Mounting**	**Base Mounting**

STEP 4
Select mounting adapter as required.

Adapter for tube mounting
Order no.
630 830 00

Adapter for single hole mounting
Order no.
630 820 00

Adapter for base mounting
Order no.
630 810 00

Adapter for tube mounting
Order no.
630 730 00

Adapter for single hole mounting
Order no.
630 720 00

Adapter for base mounting
Order no.
630 710 00

STEP 5
Where appropriate, select the bracket.

Bracket for assembly on aluminium profiles
Order no.
960 630 02

Bracket for concealed cable entry
Order no.
960 630 01

Bracket for assembly on aluminium profiles
Order no.
960 630 06

Bracket for concealed cable entry
Order no.
960 630 05

Further accessories can be found in our main catalogue page 64 or at **www.werma.com**.

KombiSIGN 40 - Modular Signal Tower

Or use one of our pre-configured signal towers. With just one part number you can obtain the most popular configurations.

KombiSIGN 40 Signal Tower
in ClassicLOOK und DesignLOOK
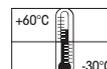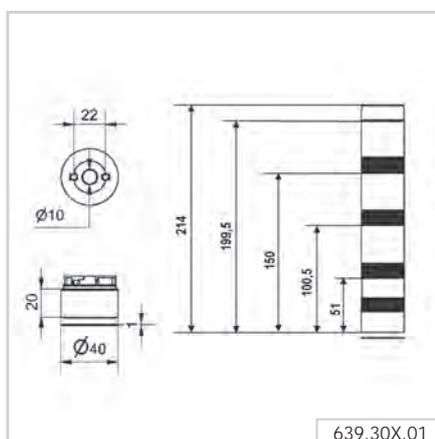
ⓘ TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:

Pre-configured signal tower	ClassicLOOK	DesignLOOK
Dimensions (Ø x Height):	40 mm x 214 mm	
Voltage:	24 V AC/DC	
TwinLIGHT green/yellow/red	639 300 01	639 301 01
Consisting of:		
	634 110 75	634 130 75
	+ 634 310 75	+ 634 330 75
	+ 634 210 75	+ 634 230 75
	+ 630 800 75	+ 630 700 75
	+ 630 810 00	+ 630 710 00

Technical details are given on the relevant product page.

🛠 ACCESSORIES

	ClassicLOOK	DesignLOOK
Bracket for concealed cable entry	960 630 01	960 630 05

↔ TECHNICAL DIAGRAMS:

22
Ø10
20
Ø40
214
199,5
150
100,5
51

639.30X.01

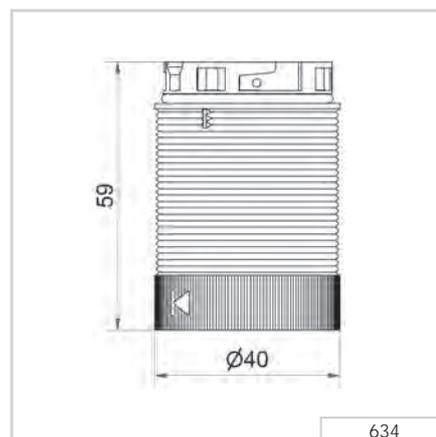CE | EAC | 129 g | IP66/69k | +60°C / -30°C

KombiSIGN 40 - Optical Signal Elements

KombiSIGN 40 Signal Tower
in ClassicLOOK and DesignLOOK

ⓘ TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:

	ClassicLOOK	DesignLOOK
Dimensions (Ø x Height):	40 mm x 59 mm	
Lens:	PC, transparent	
Life duration:	50,000 hrs	
TwinLIGHT		
Light effects:	LED Permanent or Blinking light, adjustable via slide switch	
Voltage:	24 V AC/DC	
Current consumption:	< 30 mA	
red	**634 110 75**	**634 130 75**
green	**634 210 75**	**634 230 75**
yellow	**634 310 75**	**634 330 75**
white	**634 430 75**	**634 430 75**
blue	**634 510 75**	**634 530 75**
TwinFLASH		
Light effect:	LED Flash light or EVS, adjustable via DIP-Switch	
Voltage:	24 V DC	
Current consumption:	< 65 mA	
red	**634 120 55**	**634 140 55**
green	**634 220 55**	**634 240 55**
yellow	**634 320 55**	**634 340 55**
white	**634 440 55**	**634 440 55**
blue	**634 520 55**	**634 540 55**
Multicolour		
Light effect:	LED Permanent light	
Colours:	Red, yellow, green, blue, white, violet, turquoise controlled by binary inputs	
Voltage:	24 V DC	
Current consumption:	< 60 mA	
Order No.:	**634 450 55**	**634 450 55**

↔ TECHNICAL DIAGRAMS:

59

Ø40

634

Class 2

c(UL)us   CE   EAC   29 g   IP66/69K   +60°C / -30°C
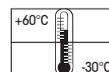
KombiSIGN 40 - Audible Signal Elements

8 tone KombiSIGN 40 siren
in DesignLOOK

2 tone KombiSIGN 40 siren
in ClassicLOOK

ⓘ TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:

	ClassicLOOK	DesignLOOK
Housing:	PC	
Life duration:	5,000 hrs	
2 Tone Siren		
Dimensions (Ø x Height):	40 mm x 45 mm	
Sound output:	85 dB (A)	
Tone type:	Continuous or pulse tone, can be set via slide switch	
Voltage:	24 V AC/DC	
Current consumption:	< 80 mA	
Order No.	**635 800 75**	**635 700 75**
8 Tone Siren		
Dimensions (Ø x Height):	40 mm x 68 mm	
Sound output:	89-95 dB (A), can be set via slide switch	
Tone type:	8 tones, can be set via slide switch	
Voltage:	24 V AC/DC	
Current consumption:	< 200 mA	
Order No.	**635 810 75**	**635 710 75**

↔ TECHNICAL DIAGRAMS:

635.X00.75

635.X10.75

Class 2

c(UL)us CE EAC

635 X00 75 — 25 g
635 X10 75 — 38 g
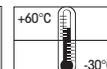IP66/69k
635 X00 75 — 85 dB
635 X10 75 — 95 dB
+60°C / -30°C
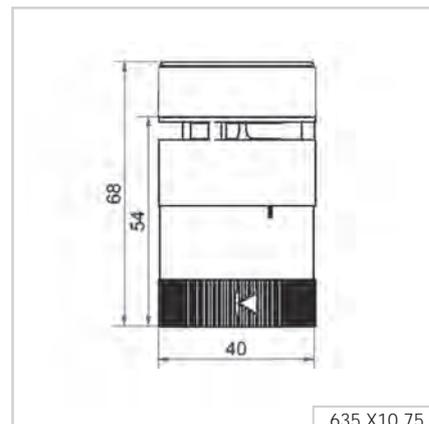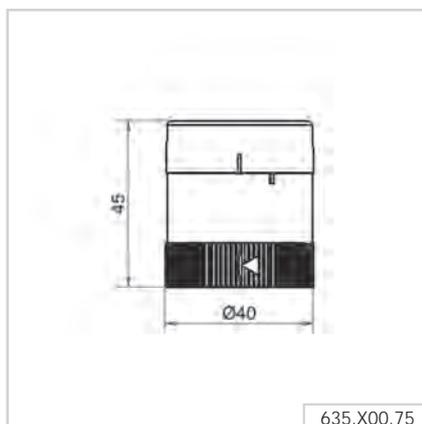
KombiSIGN 40 - Terminal Elements

KombiSIGN 40 DesignLOOK
assembly adapter for
single hole mounting

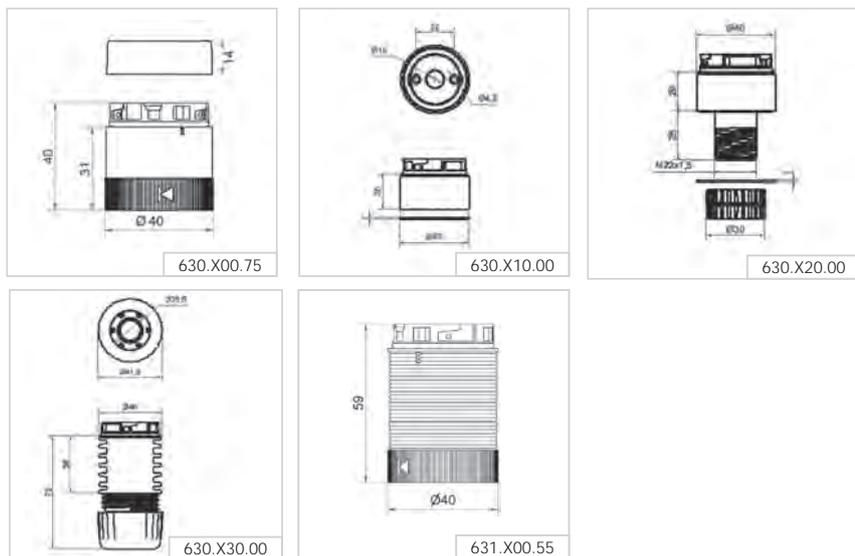KombiSIGN 40 ClassicLOOK
assembly adapter for
base mounting

KombiSIGN 40 DesignLOOK
assembly adapter for
tube mounting

ⓘ TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:

	ClassicLOOK	DesignLOOK
Housing:	PC	
Terminal element		
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	
Number of tiers possible:	Max. 5	
Voltage:	24 V AC/DC	
Order No.	**630 800 75**	**630 700 75**
IO Link Terminal element		
Dimensions (Ø x Height):	40 mm x 59 mm	
Cable entry:	Cable diameter max. 9 mm	
Connection:	Push-in terminal max. 0.75 mm^2	
Number of tiers possible:	Max. 5	
Voltage:	24 V via IO-Link	
Current consumption:	10 mA	
Order No.	**631 800 55**	**631 400 55**
Adapter for base mounting		
Dimensions (Ø x Height):	40 mm x 30 mm	
Order No.	**630 810 00**	**630 710 00**
Adapter single hole mounting		
Dimensions (Ø x Height):	40 mm x 54 mm	
Order No.	**630 820 00**	**630 720 00**
Adapter tube mounting		
Dimensions (Ø x Height):	40 mm x 75 mm	
Order No.	**630 830 00**	**630 730 00**

⚒ ACCESSORIES: SEE PAGE 27

↔ TECHNICAL DIAGRAMS:

630.X00.75

630.X10.00

630.X20.00

630.X30.00

631.X00.55

Class 2

630 X00 75 — 26 g
630 X10 00 — 21 g
630 X20 00 — 30 g
630 X30 00 — 45 g

IP66/69K

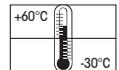+60°C / -30°C

KombiSIGN 72 - Signal Tower

Your benefits

There is no need to compromise with the KombiSIGN 72, because this product combines quick installation, excellent visibility and the highest level of flexibility. This saves time and money with regard to installation and order logistics.

- Smooth surfaces prevent dirt gathering and make cleaning easy
- Easy, intuitive installation - incorrect assembly is practically impossible (Poka Yoke)
- High-tech: the Signal Towers can easily be retrofitted with SmartMONITOR (smart MDC alternative) or AndonSPEED (call-for-action system)
- 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
- Pre-configured standard versions are available (common configurations as a complete tower with a single part number)

Typical applications

The new definition of the industry standard to signal faults

- on machinery and equipment
- on automated systems
- in assembly plants, for example, in the automotive industry
- on conveyor belts in production and logistics
- at manual workstations as a call-for-action system
- upgradeable to the wireless-based MDC alternative SmartMONITOR or to the call-for-action system AndonSPEED in logistics applications

Installation options

- Base mounting
- Tube mounting
- Additional installation options using accessories

Features

- Combine the KombiSIGN 72 light elements with special controller solutions such as USB or ASi, or integrate one of the versatile audible elements
- Can be combined and retrofitted with all the KombiSIGN 71 elements and accessories, as well as the SmartMONITOR and AndonSPEED wireless-based systems
- High-output 105 dB siren

TwinLIGHT

TwinFLASH

IO-Link

INDUSTRIE PREIS 2018
BEST OF

Size comparison KombiSIGN 72/40

Signalisation Index				
Optical			**Audible**	105 dB Siren
LED Permanent Light		4	Continuous tone	5
LED Blinking Light		5	Pulse tone	6
LED Flashing Light		6		
LED EVS		6		

How to assemble your KombiSIGN 72 signal tower

ClassicLOOK

DesignLOOK

▶ STEP 1
Select the required optical or audible elements in the correct voltage (for details see page 35).

Audible Signal Element
• 2 tone siren
Optical Signal Elements
• TwinLIGHT
• TwinFLASH
IO Link terminal element

▶ STEP 2
Select the appropriate mounting option for your application.

▶ STEP 3
Select the correct terminal element for your mounting option (for details see page 37).

Base Mounting	Tube Mounting	Base Mounting	Tube Mounting
Terminal element with CAGE CLAMP® technology Order no. **640 800 00**	Terminal element with CAGE CLAMP® technology Order no. **640 810 00**	Terminal element with CAGE CLAMP® technology Order no. **640 900 00**	Terminal element with CAGE CLAMP® technology Order no. **640 910 00**

▶ STEP 4
Where appropriate, select a base and the desired tube length (only for tube mounting) (For details see page 64).

Base with integrated tube Order no. **975 840 10**

Tube Ø 25 mm, all anodised
Order no.
100 mm long **975 845 10**
250 mm long **975 840 25**
400 mm long **975 840 40**
600 mm long **975 840 60**
800 mm long **975 840 80**
1000 mm long **975 840 03**

Base for Tube, plastic
Order no. **975 840 90**

Base for Tube, metal
Order no. **975 840 91**

Base with integrated tube Order no. **960 000 51**

Tube Ø 25 mm, all anodised
Order no.
100 mm long **975 845 10**
250 mm long **975 840 25**
400 mm long **975 840 40**
600 mm long **975 840 60**
800 mm long **975 840 80**
1000 mm long **975 840 03**

Base for Tube, plastic
Order no. **960 000 50**

▶ STEP 5
Where appropriate, select the bracket and the contact box (for details see page 64).

Bracket for base mounting
Order no. **960 000 02**

Bracket for 1-sided mounting
Order no. **975 840 85**

Bracket for 2-sided mounting
Order no. **975 840 86**

Bracket for base mounting with concealed cable entry
Order no. **960 000 14**

Bracket for tube mounting
Order no. **960 000 01**

Bracket for base mounting
Order no. **960 000 53**

Bracket for 1-sided mounting
Order no. **960 000 52**

Bracket for base mounting with concealed cable entry
Order no. **960 000 55**

Bracket for tube mounting
Order no. **960 000 54**

Look at the signal device section on: www.werma.com

With the new signal tower configurator you can put together your own individual signal tower.

Further accessories can be found in our main catalogue page 64 or at www.werma.com.

KombiSIGN 72 - Modular Signal Tower

Or use one of our pre-configured signal towers. With just one part number you can obtain the most popular configurations.
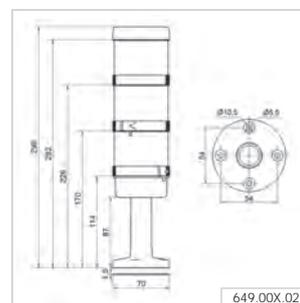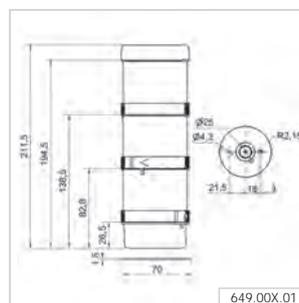
ⓘ TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:

| Pre-configured signal tower	ClassicLOOK	DesignLOOK
Dimensions (Ø x Height):	70 mm x 211.5 mm	
Voltage:	24 V AC/DC	
Base/Bracket mounting		
Consisting of:	647 110 75 + 647 310 75 + 647 210 75 + 640 800 00	647 130 75 + 647 330 75 + 647 230 75 + 640 900 00
TwinLIGHT green/yellow/red	**649 000 01**	**649 001 01**
Tube mounting		
Dimensions (Ø x Height):	70 mm x 299 mm	
Consisting of:	647 110 75 + 647 310 75 + 647 210 75 + 640 810 00 + 975 840 10	647 130 75 + 647 330 75 + 647 230 75 + 640 910 00 + 960 000 51
TwinLIGHT green/yellow/red	**649 000 02**	**649 001 02**

Technical details are given on the relevant product page.

⚒ ACCESSORIES:

	ClassicLOOK	DesignLOOK
Bracket for 1-sided mounting	**975 840 85**	**960 000 52**
Bracket for base mounting	**960 000 02**	**960 000 53**
Bracket for tube mounting	**960 000 01**	**960 000 54**

↔ TECHNICAL DIAGRAMS:

649.00X.01   649.00X.02

649 00X 01   649 00X 02

CE   EAC   361 g   400 g   IP65   +60°C / -30°C
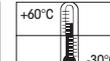
KombiSIGN 72 - Optical Signal Elements

ⓘ TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:

	ClassicLOOK	DesignLOOK
Dimensions (Ø x Height):	70 mm x 65.5 mm	
Lens:	PC, transparent	
TwinLIGHT		
Light effects:	LED Permanent light, LED Blinking light, adjustable via slide switch	
Voltage:	24 V AC/DC	
Current consumption:	< 80 mA	
red	**647 110 75**	**647 130 75**
green	**647 210 75**	**647 230 75**
yellow	**647 310 75**	**647 330 75**
white	**647 430 75**	**647 430 75**
blue	**647 510 75**	**647 530 75**
TwinFLASH		
Light effect:	LED Flashing light, LED EVS light, adjustable via slide switch	
Voltage:	24 V DC	
Current consumption:	< 80 mA	
red	**647 120 55**	**647 140 55**
green	**647 220 55**	**647 240 55**
yellow	**647 320 55**	**647 340 55**
white	**647 440 55**	**647 440 55**
blue	**647 520 55**	**647 540 55**

↔ TECHNICAL DIAGRAMS:

65,5
56
Ø70
647

c UL us
in preparation
CE
EAC
77 g
IP65
+60°C
-30°C

35
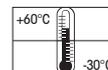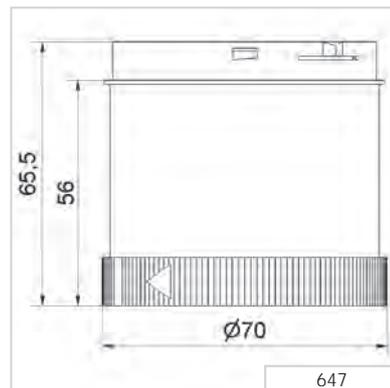
KombiSIGN 72 - Audible Signal Elements

2 and 8 tone siren
KombiSIGN 72
DesignLOOK

ⓘ TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:

	ClassicLOOK	DesignLOOK
Housing:	PC	
Life duration:	5,000 hrs	
2 Tone Siren		
Dimensions (Ø x Height):	70 mm x 54 mm	
Sound output:	95-105 dB (A), adjustable by slide switch	
Tone type:	Permanent tone or alternating tone, selectable by slide switch	
Voltage:	24 V AC/DC	
Current consumption:	< 40 mA	
Order no.	**645 870 75**	**645 770 75**
8 Tone Siren		
Dimensions (Ø x Height):	70 mm x 54 mm	
Sound output::	95-105 dB (A), adjustable by slide switch	
Tone type:	8 tones, can be set via slide switch	
Voltage:	24 V AC/DC	
Current consumption:	< 30 mA	
Order no.	**645 890 75**	**645 790 75**
Voltage:	115-230 V AC	
Current consumption:	< 45 mA	
Order no.	**645 890 60**	**645 790 60**

↔ TECHNICAL DIAGRAMS:

54

70

645.XX0.XX

70 g | IP65 | 105 dB | +50°C / -30°C
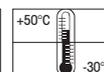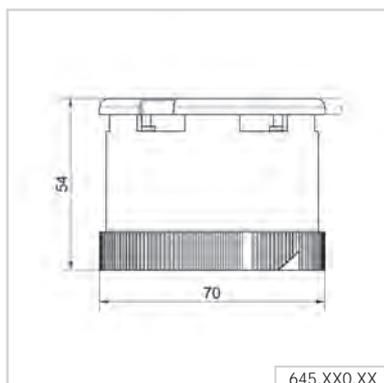
KombiSIGN 72 - Terminal Elements

Terminal element
KombiSIGN 72
DesignLOOK

Terminal element
KombiSIGN 72
ClassicLOOK

IO Link element
KombiSIGN 72
ClassicLOOK

IO Link element
KombiSIGN 72
DesignLOOK

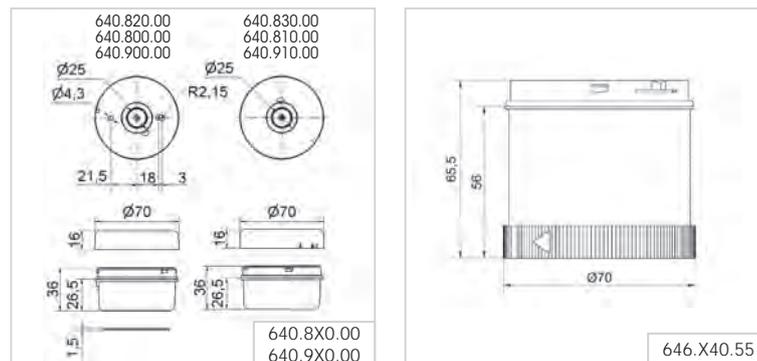## ⓘ TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:

	ClassicLOOK	DesignLOOK
Dimensions (Ø x Height):	70 mm x 36 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 mm²	
Protection rating:	IP 65	
Number of tiers possible:	Max. 5	
Voltage:	12-230 V AC/DC	
Base mounting	**640 800 00**	**640 900 00**
Tube mounting	**640 810 00**	**640 910 00**
IO Link element		
Dimensions (Ø x Height):	70 mm x 65.5 mm	
Numbers of tiers possible:	Max. 5	
Voltage:	24 V via IO-Link	
Current consumption:	6 mA	
Order no.	**646 840 55**	**646 440 55**

✖ ACCESSORIES:

	ClassicLOOK	DesignLOOK
Base with integrated tube	**975 840 10**	**960 000 51**
Bracket for 1-sided mounting	**975 840 85**	**960 000 52**
Bracket for base mounting	**960 000 02**	**960 000 53**
Bracket for tube mounting	**960 000 01**	**960 000 54**
Bracket for base mounting with concealed cable entry	**960 000 14**	**960 000 55**
Base for tube Ø 25 mm, plastic	**975 840 90**	**960 000 50**

Additional accessories can be found on page 64.

↔ TECHNICAL DIAGRAMS:

640.820.00
640.800.00
640.900.00

640.830.00
640.810.00
640.910.00

Ø25   Ø25
Ø4,3   R2,15
21,5   18   3
Ø70   Ø70
16   16
36   36
26,5   26,5
1,5

640.8X0.00
640.9X0.00

65,5   56

Ø70

646.X40.55

646.440.55
Class 2

Max.

646.440.55
646.840.55

82 g   58 g

IP65

+60°C -30°C
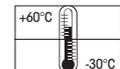
KombiSIGN 71 - Signal Tower

Your benefits

The KombiSIGN 71 has successfully established itself as the standard in industrial applications over recent years. The patented bayonet mechanism enables elements to be installed or removed in a matter of seconds.

- A wide range of accessories ensures maximum flexibility
- High-tech: The Signal Towers can easily be retrofitted with SmartMONITOR (intelligent MDC alternative) or AndonSPEED (call-for-action system)
- Completely pre-configured standard versions are available (common configurations as a complete tower with a single part number)

Typical applications

Signalling fault messages

- on machinery and equipment
- on automated systems
- in assembly plants, for example, in the automotive industry
- in the building services industry

Installation options

- Base mounting
- Tube mounting
- Additional installation options using accessories

Features

- Different light effects are possible for individual signalling
- The Multicolour element offers up to seven colours in a single element
- The self-adjusting siren element automatically adapts to the ambient noise level
- Vocal element for your own mp3 or wav files
- Combine the KombiSIGN 71 light elements with special controller solutions such as USB or ASi, or integrate one of the versatile audible elements

Size comparison KombiSIGN 71/40

Signalisation Index						
Optical			**Audible**	2 tone/8 tone	105 dB Siren	Vocal element
Permanent Light		2	Continuous tone	3	5	
LED Permanent Light		2	Pulse tone	3	6	
LED Blinking Light		3	Multi tone	5		
LED Permanent Light (ultrabright)		4	Vocal element			5
LED Rotating Light		5				
LED Flashing Light		6				
LED EVS Light		6				
Xenon Flash		5				

How to assemble your Kombi*SIGN* 71 signal tower

▶ STEP 1
Select the required optical
or audible elements in the correct voltage (for details see page 41).

Audible Signal Elements
• Buzzer element
• Siren element
• Vocal element

Optical Signal Elements
• (LED) Permanent light
• LED Permanent light ultrabright
• (LED) Flashing light
• LED EVS element
• LED Blinking light
• LED Rotating light
• LED Permanent light element multicolour

▶ STEP 2
Select the appropriate mounting option for your application.

▶ STEP 3
Select the correct terminal element for your mounting option (for details see page 45).

Base Mounting	Tube Mounting
Terminal element with CAGE CLAMP® technology Order no. **640 800 00**	Terminal element with CAGE CLAMP® technology Order no. **640 810 00**
Screw terminal Order no. **640 820 00**	Screw terminal Order no. **640 830 00**
Terminal element M12 Order no. **640 850 55**	Terminal element M12 Order no. **640 860 55**

▶ STEP 4
Where appropriate, select a base and the desired tube length (only for tube mounting) (For details see page 64).

Tube with clamp
Order no. **960 000 18**

Adaptor for single hole mounting
Order no. **960 000 25**

Base with integrated tube
Order no. **975 840 10**

Tube Ø 25 mm, all anodised
100 mm long Order no. **975 845 10**
250 mm long Order no. **975 840 25**
400 mm long Order no. **975 840 40**
600 mm long Order no. **975 840 60**
800 mm long Order no. **975 840 80**
1000 mm long Order no. **975 840 03**

Base for Tube, plastic
Order no. **975 840 90**

Base for Tube, metal
Order no. **975 840 91**

Foldaway Base
Order no. **960 000 30**

Foldaway Base
Order no. **960 009 12**

Tube Ø 25 mm, plastic, only for Foldaway Base, 45 mm long
Order no. **960 000 31**

▶ STEP 5
Where appropriate, select the bracket and the contact box (for details see page 64).

Look at the signal device section on: www.werma.com

With the signal tower configurator you can put together your own individual signal tower.

Contact box for cable exit at side
Order no. **975 840 01**

Bracket for base mounting
Order no. **960 000 02**

Bracket for 1-sided mounting
Order no. **975 840 85**

Bracket for 2-sided mounting
Order no. **975 840 86**

Corner fixing bracket
Order no. **960 000 41**

Contact box for cable exit at side
Order no. **975 840 01**

Contact box with magnetic base and cable exit at side
Order no. **975 840 04**

Bracket for base mounting with concealed cable entry
Order no. **960 000 14**

Bracket for tube mounting
Order no. **960 000 01**

Corner fixing bracket
Order no. **960 000 41**

KombiSIGN 71 - Signal Tower

Or use one of our pre-configured signal towers. With just one part number you can obtain the most popular configurations.
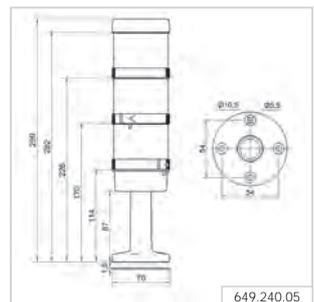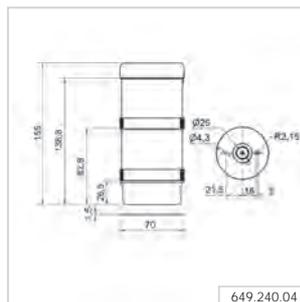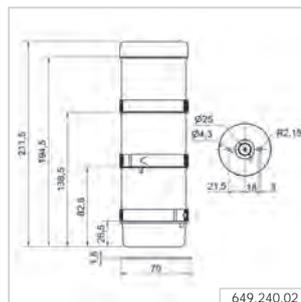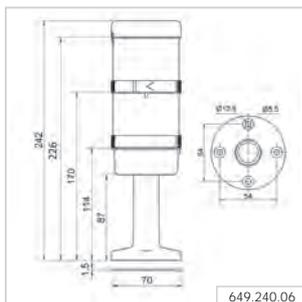
ⓘ TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:

Pre-configured signal tower	2 tier	3 tier
Voltage:	24 V AC/DC	
Base/Bracket mounting		
Consisting of:	644 100 75 + 644 200 75 + 640 800 00	644 100 75 + 644 300 75 + 644 200 75 + 640 800 00
Dimensions (Ø x Height):	70 mm x 155 mm	70 mm x 211.5 mm
LED Permanent Light green/yellow/red	-	**649 240 02**
LED Permanent Light green/red	**649 240 04**	-
Tube mounting		
Consisting of:	644 100 75 + 644 200 75 + 640 810 00 + 975 840 10	644 100 75 + 644 300 75 + 644 200 75 + 640 810 00 + 975 840 10
Dimensions (Ø x Height):	70 mm x 242 mm	70 mm x 299 mm
LED Permanent Light green/yellow/red	-	**649 240 05**
LED Permanent Light green/red	**649 240 06**	-

Technical details are given on the relevant product page.

✕ ACCESSORIES:

Bracket for 1-sided mounting	**975 840 85**
Bracket for surface mounting	**960 000 02**
Bracket for base mounting	**960 000 01**

↔ TECHNICAL DIAGRAMS:

649.240.06

649.240.02

649.240.04

649.240.05

CE   EAC   649 240 04 199 g   649 240 06 234 g   649 240 02 256 g   649 240 05 293 g   IP65   +50°C / -20°C

Signal Towers

ⓘ TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:

Dimensions (Ø x Height):	70 mm x 65.5 mm		
Lens:	PC, transparent		
Socket:	Bayonet, BA15d, for bulbs max. 5 W		
Protection rating:	IP 65		
Life duration:	50,000 hrs (LED)		
Permanent light element	12-240 V AC/DC		
red	**641 100 00**		
green	**641 200 00**		
yellow	**641 300 00**		
clear	**641 400 00**		
blue	**641 500 00**		
Life duration:	Dependent upon the bulbs used		
Bulb not included in assembly.			
LED Permanent light element	24 V AC/DC	115 V AC	230 V AC
Current consumption:	< 35 mA	< 25 mA	< 35 mA
red	**644 100 75**	**644 100 67**	**644 100 68**
green	**644 200 75**	**644 200 67**	**644 200 68**
yellow	**644 300 75**	**644 300 67**	**644 300 68**
clear	**644 400 75**	**644 400 67**	**644 400 68**
blue	**644 500 75**	**644 500 67**	**644 500 68**
LED Permanent light element ultrabright	24 V DC		
Current consumption:	< 195 mA		
red	**644 180 55**		
green	**644 280 55**		
yellow	**644 380 55**		
clear	**644 480 55**		
blue	**644 580 55**		
Flashing light element (Xenon)	24 V DC (ASI)	24 V DC	115 V AC	230 V AC
Current consumption:	< 80 mA	< 125 mA	< 22 mA	< 15 mA
red	**643 110 55**	**643 100 55**	**643 100 67**	**643 100 68**
green	**643 210 55**	**643 200 55**	**643 200 67**	**643 200 68**
yellow	**643 310 55**	**643 300 55**	**643 300 67**	**643 300 68**
clear	**643 410 55**	**643 400 55**	**643 400 67**	**643 400 68**
blue	**643 510 55**	**643 500 55**	**643 500 67**	**643 500 68**
Life duration:	4×10^6 flashes			
Flash frequency:	c. 1 Hz			
LED Flashing light element	24 V DC			
Current consumption:	< 35 mA			
red	**644 120 55**			
green	**644 220 55**			
yellow	**644 320 55**			
clear	**644 420 55**			
blue	**644 520 55**			
Flash frequency:	c. 1 Hz (Double Flash)			

643 X10 55
Class 2

Max.
77 g
IP65
+50°C
-20°C
24 V
PLC
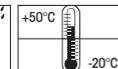
KombiSIGN 71 - Optical Signal Elements

ⓘ TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:

LED EVS element	24 V AC/DC		
Current consumption:	350 mA		
red	**644 140 55**		
green	**644 240 55**		
yellow	**644 340 55**		
clear	**644 440 55**		
blue	**644 540 55**		
LED Blinking light element	24 V AC/DC	115 V AC	230 V AC
Current consumption:	< 25 mA	< 25 mA	< 35 mA
red	**644 110 75**	**644 110 67**	**644 110 68**
green	**644 210 75**	**644 210 67**	**644 210 68**
yellow	**644 310 75**	**644 310 67**	**644 310 68**
clear	**644 410 75**	**644 410 67**	**644 410 68**
blue	**644 510 75**	**644 510 67**	**644 510 68**
Blink frequency:		c. 1 Hz	
LED Rotating light element	24 V AC/DC		
Current consumption:	< 40 mA		
red	**644 130 75**		
green	**644 230 75**		
yellow	**644 330 75**		
clear	**644 430 75**		
blue	**644 530 75**		
Rotation frequency:	c. 120 r.p.m.		
LED Permanent light element multicolour	24 V DC		
Current consumption:	< 120 mA		
Multicolour	**644 450 55**		
Possible colours:	Red, yellow, green, white, blue, violet, turquoise controlled by binary inputs		
Number of modules possible:	Max. 3 (including multicolour element)		
Further voltages on request.			

↔ TECHNICAL DIAGRAMS:

65,5
56
Ø70
641/ 643 / 644

643 X10 55
Class 2

Max.
91 g

IP65

+50°C
-20°C

24 V

PLC
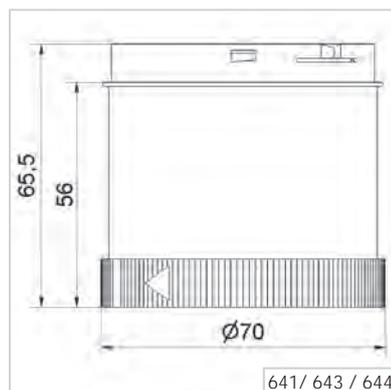
KombiSIGN 71 - Audible Elements
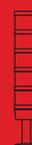
Buzzer element

Siren element Classic*LOOK*

Siren element Design*LOOK*

ⓘ TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:

Dimensions (Ø x Height):	See below		
Lens:	PC		
Protection rating:	IP 65		
Life duration:	5,000 hrs		
Buzzer element			
Dimensions (Ø x Height):	70 mm x 72 mm		
Sound output:	85 dB (A)		
Number/Tone type:	Continuous or pulse tone		
Voltage:	24 V AC/DC	115 V AC	230 V AC
Current consumption:	< 35 mA	< 25 mA	< 25 mA
Order no.:	**645 800 75**	**645 800 77**	**645 800 68**
Siren element			
Dimensions (Ø x Height):	70 mm x 54 mm		
Sound output:	95-105 dB (A), adjustable by slide switch		
Number/Tone type:	Continuous tone, alternating tone, selectable by slide switch		
Voltage:	24 V AC/DC		
Current consumption:	< 40 mA		
Order no.:	**645 870 75**		
Siren element 8 tones			
Dimensions (Ø x Height):	70 mm x 72 mm		
Sound output:	92-102 dB (A), adjustable sound output		
Number/Tone type:	8 tones		
ClassicLOOK			
Voltage:	24 V AC/DC	115-230 V AC	
Current consumption:	< 30 mA	< 45 mA	
Order no.:	**645 890 75**	**645 890 60**	
DesignLOOK			
Voltage:	24 V AC/DC	115-230 V AC	
Current consumption:	< 30 mA	< 45 mA	
Order no.:	**645 790 75**	**645 790 60**	
Multi-functional Siren, with external control			
Dimensions (Ø x Height):	70 mm x 72 mm		
Sound output:	100 dB (A), adjustable sound output		
Number/Tone type:	Number of tones dependent on the number of optical elements		
Tone triggering:	7 diff. tones can be triggered externally		
Voltage:	24 V DC		
Current consumption:	< 80 mA		
Order no.:	**645 850 55**		

↔ TECHNICAL DIAGRAMS:

Ø70
72
645.800.XX
645.820.XX
645.850.55

54
70
645.870.75
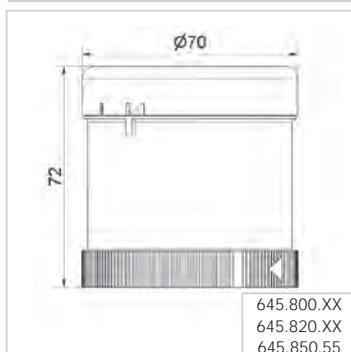
645.800.XX 645.870.75 645.820.XX 645.850.55   24 V

645.870.75
645.770.75
645.890.xx
645.790.xx

UL c us   CE   EAC   88 g   70 g   87 g   77 g   IP65   PLC   +50°C / -30°C
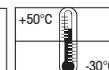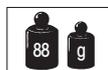
KombiSIGN 71 - Audible Elements

High output vocal element
with up to 102 dB

ⓘ TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:

Dimensions (Ø x Height):	See below	
Lens:	PC	
Protection rating:	IP 65	
Life duration:	5,000 hrs	
Siren element with self-adjusting sound output		
Dimensions (Ø x Height):	70 mm x 111 mm	
Voltage:	24 V DC	
Current consumption:	< 150 mA	
Order no.:	**645 810 55**	
Tone type:	Pulse tone	
Tone frequency:	2.5 kHz	
Sound output:	80 dB (A) - max. 100 dB (A)	
Vocal element	**88 dB (A)**	**102 dB (A)**
Dimensions (Ø x Height):	70 mm x 111 mm	125 mm x 118 mm
Voltage:	24 V DC	24 V DC
Current consumption:	< 400 mA	< 400 mA
Order no.:	**645 840 55**	**645 860 55**
Number of tiers:	Max. 4 additional signal elements possible	
Sound output:	Adjustable, up to 88 dB (A)	Adjustable, up to 102 dB
File Transfer:	Via USB connection and provided software	
Possible data format:	Mp3 and wav files	
Number of sequences:	15 files can be remotely triggered depending on the number of signal elements used or one sequence with max. 50 files.	
Suitable for:	Windows®, System requirements – see Handbook	
Assembly:	Vocal element, USB connection cable and software	
Further Information:	No UL approval	

↔ TECHNICAL DIAGRAMS:

645.810.55
645.840.55
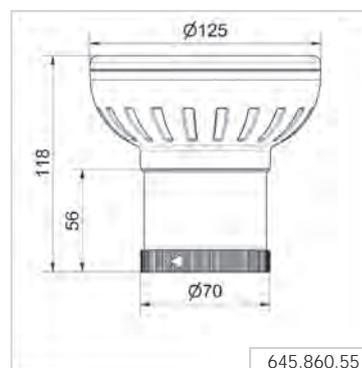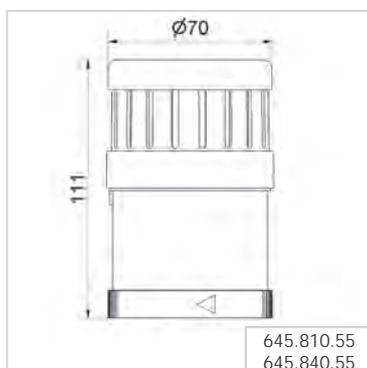
645.860.55

645.810.55
645.840.55 / 645.810.55 / 645.840.55 / 645.860.55 / 24 V

121 g / 184 g / 668 g / IP65 / +50°C -20°C / PLC
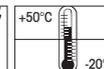
KombiSIGN 71 - Terminal Elements

Screw terminal with cap

Terminal element with practical M12 connection socket in base

ⓘ TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:

Dimensions (Ø x Height):	See below	
Housing:	Terminal element: PA fibreglass Cap: PC	
Fixing:	Base mounting Tube mounting, for tube Ø 25 mm Bracket mounting (accessory)	
Cable entry:	Cable diameter max. 11 mm	
Protection rating:	IP 65	
Number of modules possible:	Max. 5	
	Tube mounting	**Base mounting**
Screw terminal		
Dimensions (Ø x Height):	70 mm x 42.5 mm	
Connection:	Screw terminal max. 1.5 mm²	
Voltage:	12-240 V AC/DC	
Order no.:	**640 830 00**	**640 820 00**
	Incl. cap	Incl. cap and seal
CAGE CLAMP® technology		
Dimensions (Ø x Height):	70 mm x 42.5 mm	
Connection:	CAGE CLAMP® technology max. 1.5 mm²	
Voltage:	12-240 V AC/DC	
Order no.:	**640 810 00**	**640 800 00**
	Incl. cap	Incl. cap and seal
Terminal element M12		
Dimensions (Ø x Height):	70 mm x 56 mm	70 mm x 50 mm
Connection:	M12 connector (8 pole)	
Voltage:	12-24 V DC	
Current carrying capacity:	≤ 2 A	
Order no.:	**640 860 55**	**640 850 55**
	Incl. cap	Incl. cap and seal
	No UL approval	

✄ ACCESSORIES:

Base with integrated tube	**975 840 10**
Base for tube (metal)	**975 840 91**
Tube Ø 25 mm, Aluminium eloxiert 100 mm long	**975 845 10**
250 mm long	**975 840 25**
400 mm long	**975 840 40**
600 mm long	**975 840 60**
800 mm long	**975 840 80**
1000 mm long	**975 840 03**
Further accessories can be found on page 64.	

↔ TECHNICAL DIAGRAMS: next page

640 8X0 00
x = 0,1,2,3

640.820.00
640.830.00
max.

640.800.00
640.810.00
max.

640.860.55
640.850.55

24 V

c UL us | CE | EAC | 90 g | 82 g | 80 g | IP65 | +50°C / -20°C | PLC

KombiSIGN 71 - USB Terminal Element

Direct triggering of the signal tower elements via USB Interface

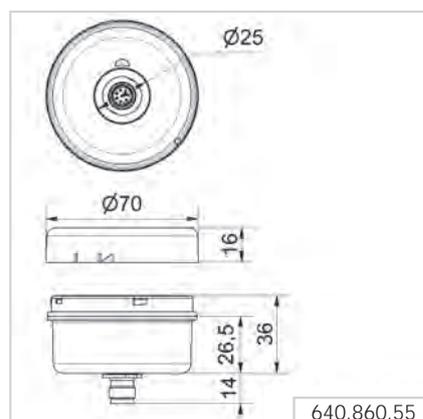## ⓘ TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:

Terminal element with USB Interface	
Dimensions (Ø x Height):	70 mm x 36 mm
Fixing:	Tube mounting
Connection:	Via USB
Voltage:	Terminal element: Via USB (5 V DC)
Voltage:	24 V DC
Current carrying cap. ∑ Imax:	90 mA at 24 V
Order no.:	**640 840 00**
Assembly:	Assembly includes installation software, drivers, handbook and USB connection cable (length 1.8 m)
Suitable for:	Windows®, System requirements – see Handbook

- Direct triggering of signal tower elements via USB Interface
- Actuation via DLL (Dynamic Link Library) or VCP (Virtual-COM-Port)
- Simple integration into any customer-specific software
- No additional power supply or hardware necessary
- Up to five signal towers with a maximum of five tiers each can be connected
- Maximum cable length 5m

↔ TECHNICAL DIAGRAMS:

640.850.55

640.860.55

640.8X0.00

640.840.00

CE | EAC | 170 g | IP65 | +50°C / -20°C
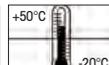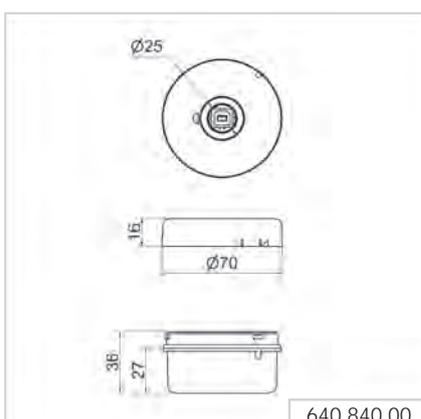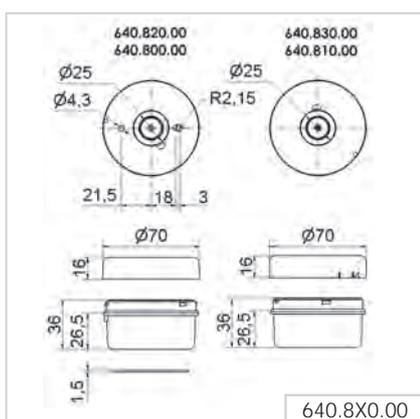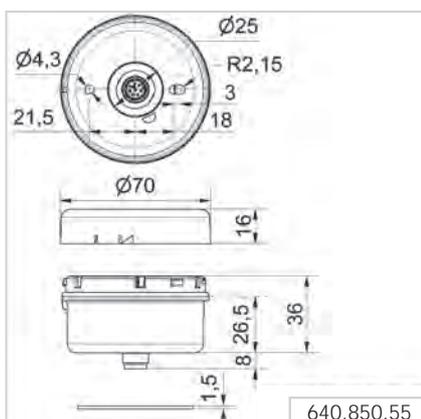
KombiSIGN 71 - AS-Interface Element

Cable not included in assembly

LEDs display the
current status

ⓘ TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:

Specif. Power supply AS-Interface Element:	Via bus conduction	
Operating voltage:	18.5 V … 31.6 V according to the AS-Interface specification	
Reverse battery protection:	Integrated	
Watchdog:	Integrated	
	Standard Slave	**A/B-Slave**
Number of addresses:	Max. 31	Max. 62
Number of tiers:	Max 4	Max. 3
IO-Code:	8_{Hex}	8_{Hex}
ID-Code:	F_{Hex}	A_{Hex}
ID2-Code:	N/A	E_{Hex}
Outputs:	4 semiconductor relays	3 semiconductor relays
Approved in accordance with:	Spec. V 3.0	Spec. V 3.0
Order no.:	**646 830 55**	**646 810 55**
	With internal add. voltage	With external add. voltage
Additional external voltage:	24 V DC	
Current carrying cap. ∑ Imax:	200 mA	200 mA per signal
Current consumption max:	210 mA	≤ 50 mA
Voltage at signal element:	20 V … 30 V DC	24 V +/- 10%
Short circuit/overload protection:	Integrated	Pre-fuse M 1.6 A

↔ TECHNICAL DIAGRAMS:
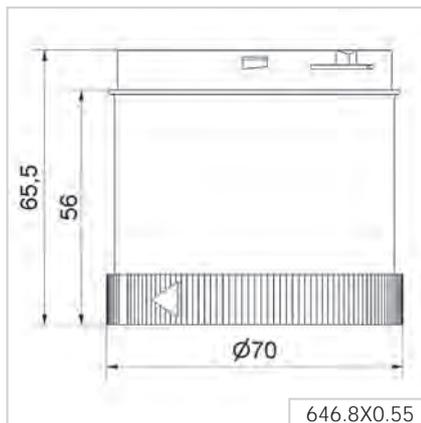
65,5
56
Ø70
646.8X0.55

Class 2

cULus   CE   EAC

Standard Slave   A/B-Slave

AS Approval No. 66301   AS Approval No. 66202

77 g

IP65

+50°C
-20°C
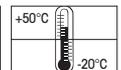
KOMPAKT 37 - pre-assembled Signal Tower

Your benefits

The KOMPAKT 37 is a completely pre-assembled signal tower that can be easily ordered under a single part number. With 1-5 visual tiers, 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 Classic*LOOK* or Design*LOOK* to suit all machine surfaces
- Clearly visible from all positions thanks to the Omni*VIEW* lens with no blind spots

Typical applications

Fault signalling

- on smaller machines and equipment
- on point-of-sale and access control systems

Installation options

- Single-hole mounting
- Additional installation options using accessories

Features

- Pre-assembled with easy cable connection or M12 plug for plug & play use

Size comparison KOMPAKT 37 / Kombi*SIGN* 40

Signalisation Index			
Optical		**Audible**	
LED Permanent Light	3	Pulse tone	4

How to select your KOMPAKT 37 signal tower

▶ STEP 1
Select the signal tower of your choice with or without buzzer, with the appropriate connection, housing colour, voltage and number of tiers.

Part numbers can be found on page 50.

Classic*LOOK*

Design*LOOK*

• 1-5 tiers

• With or without buzzer

• M12 plug or cable

• Black or silver finish

▶ STEP 2
Select up to two extension tubes.

optional:

Extension tube
Order no. **960 698 02**

optional:

Extension tube
Order no. **960 698 04**
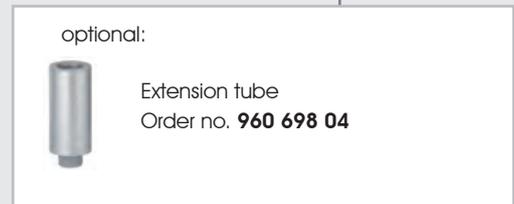
▶ STEP 3
Select the appropriate fixing accessories for your application, using for example a tube and base or a bracket mount.

| Single Hole Mounting | Bracket Mounting | Base Mounting | Single Hole Mounting | Bracket Mounting | Base Mounting |

Bracket for base mounting
Order no. **960 630 02**

Base with integrated tube
Order no. **960 698 01**

Bracket for base mounting
Order no. **960 630 06**

Base with integrated tube
Order no. **960 698 03**

▶ STEP 4
Where appropriate, select the bracket and the contact box.

Bracket for base mounting with concealed cable entry
Order no. **960 000 14**

Bracket for base mounting
Order no. **960 000 01**

Corner fixing bracket
Order no. **960 000 41**

Contact box for cable exit at side
Order no. **975 840 01**

Contact box with magnetic base and cable exit at side
Order no. **975 840 04**

Bracket for base mounting with concealed cable entry
Order no. **960 000 55**

Bracket for base mounting
Order no. **960 000 54**

Go to the signal devices page on: www.werma.com

Here you can use the selection tool „Configurator" to select the Kompakt 37 signal tower according to your requirements.

With the help of intuitive questions and pictures you will be able to make your choice with just a few mouse clicks.

KOMPAKT 37 - pre-assembled Signal Tower

ClassicLOOK

Two tier Kompakt 37 with integral tube and base (accessory)

Three tier Kompakt 37 with bracket (accessory)

ⓘ TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:			
Dimension (Ø 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)	
Housing:		PC	
Fixing:		Single hole mounting for Ø 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	
Nut and seal included in assembly.			

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	**699 140 75**	
	blue/green/yellow/red	Cable	**699 150 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**	

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	**698 140 75**	-
	blue/green/yellow/red	Cable	**698 150 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**	

DesignLOOK

The height of the KOMPAKT 37 can be increased by max. 160 mm with the use of extension tubes, ensuring optimum visibility
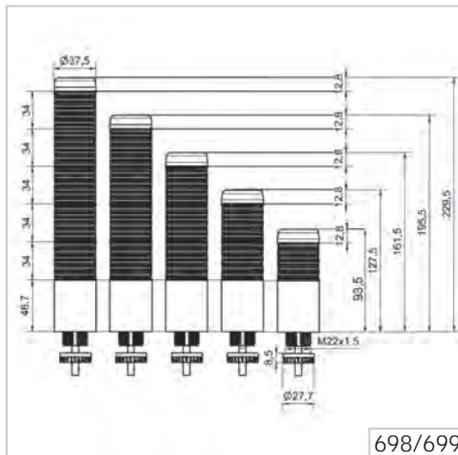
ⓘ TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:

DesignLOOK with buzzer		Connection	24 V AC/DC
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

⚒ 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	
Cable 5 m with M12 plug (8 pole)	960 000 47	
Cable 5 m with M12 connector and plug (8 pole)	960 000 46	
Bracket for assembly on aluminium profiles	960 630 02	960 630 06
Further accessories can be found on page 64.		

↔ TECHNICAL DIAGRAMS:

698/699

Class 2

| c(UL)us | CE | EAC | 63 g | 90 g | 176 g | 199 g | 215 g | IP65 | 699 85 dB | +50°C / -20°C | PLC |
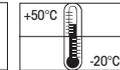
deSIGN 42 - pre-assembled Signal Tower

Your benefits

Thanks to its high-quality stainless steel housing, the deSIGN 42 signal tower is an ideal accompaniment to modern, design-oriented assembly lines, production facilities and machinery. The robust housing provides the key benefit of being tamper-proof for installations in public areas.

- Elegant industrial design
- Tamper-proof for public areas

Typical applications

Fault signalling

- on machinery and equipment

Access control

- on control points in public areas

Installation options

- Single-hole mounting
- Bracket mounting using accessories

Features

- High-quality, robust stainless-steel housing
- Award-winning design

Size comparison deSIGN 42/KombiSIGN 72

Signalisation Index	
Optical	
LED Permanent Light	3

ⓘ TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:

	2 tier	3 tier
Dimensions (Ø x Height):	42 mm x 221 mm	42 mm x 255 mm
Housing:	Stainless steel, brushed	
Fixing:	Installation mounting for Ø 22.5 mm (M22 x 1.5 mm)	
Connection:	Cable, 2 m long, included in assembly	
Voltage:	24 V DC	24 V DC
Current consumption:	50 mA per tier	50 mA per tier
red/green	**694 010 55**	-
red/yellow	**694 020 55**	-
red/yellow/green	-	**694 000 55**

✴ ACCESSORIES:

Surface housing single	**975 109 02**
Bracket, stainless steel (Protection rating IP 33)	**960 694 01**

↔ TECHNICAL DIAGRAMS:

694

CE EAC 746 g 718 g IP65 +50°C / -20°C PLC
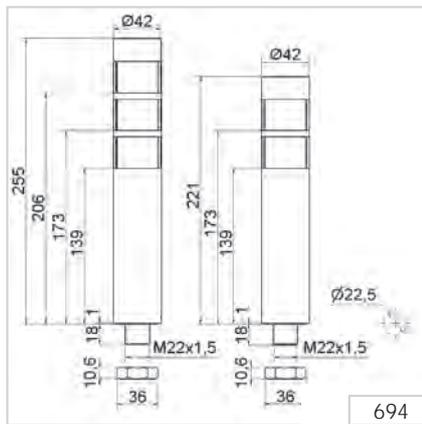
ClearSIGN - pre-assembled Signal Tower

Your benefits

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 fill levels and temperature conditions
- Set colours and light effects according to your needs with the IO-Link version

Typical applications

Fault signalling

- on machines and equipment (with optional IO-Link interface)
- on small equipment in production areas or the building services industry

Installation options

- Base mounting

Features

- IO-Link control enables more than 1 million colours and various light effects

IO-Link

INDUSTRIE PREIS 2018
BEST OF

Size comparison ClearSIGN / KombiSIGN 72

Signalisation Index					
Optical			**Audible**		
LED Permanent Light		3	Continuous tone		3
LED Blinking Light		3			
LED Flashing Light		4			
LED EVS Light		4			

ⓘ TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:

	4 tier
Dimensions (Ø x Height):	85 mm x 320 mm
Housing:	PC; PC/ABS
Fixing:	Base mounting
Connection:	Push-In terminal max. 0.5 mm²
	M12 (4 pin) - IO version
Cable entry:	Cable diameter max. 11 mm
Light effects:	LED Permanent light or EVS (except RGB Version)
	or other variants possible with IO Link
Tone type:	Continuous tone or other variants possible with IO Link
Voltage:	24 V DC
Current consumption:	130 mA
red/yellow/green/blue	**656 000 03**
RGB	
Voltage:	24 V DC
Current consumption:	385 mA
Up to 7 colours per tier	**656 100 01**
IO Link without buzzer	
Current consumption:	385 mA
Over 1m colour variants possible	**656 100 02**
IO Link with buzzer	
Current consumption:	420 mA
Over 1m colour variants possible	**656 100 03**
Buzzer module	
Sound output:	Max. 85 dB (A)
Voltage:	24 V DC
Order no.:	**656 000 55**

↔ TECHNICAL DIAGRAMS:

656

CE   EAC   IP66   85 dB   +50°C / -20°C

656.000.03 — 330 g   656.100.02 — 344 g   656.000.55 — 30 g
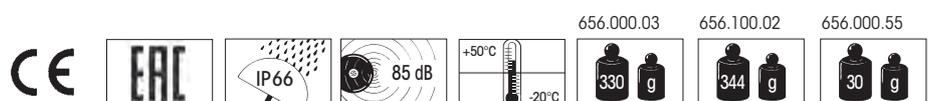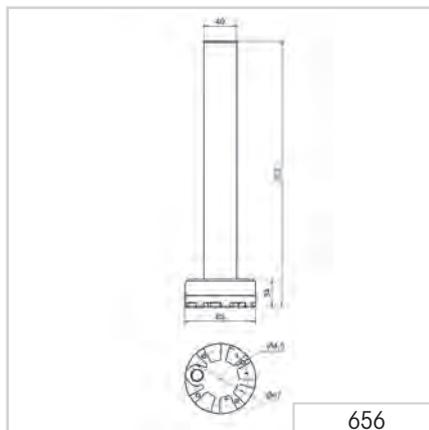
Clean*SIGN* - pre-assembled Signal Tower

Your benefits

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

Typical applications

Fault signalling

- in clean rooms, e.g. semiconductor and solar industries
- in the food and beverage industry
- in pharmaceutical and cosmetic industries

Installation options

- Base mounting
- Ceiling mounting
- Wall mounting

Features

- EHEDG and Fraunhofer IPA approval
- Bracket mounting fulfills Air Cleanliness Class 1 for Cleanroom applications in accordance with DIN EN ISO 14644-1
- Base or Ceiling mounting fulfills Air Cleanliness Class 1
- Electronic modularity of the individual tiers (colour and light effects individually adjustable/ can be externally triggered)

Size comparison Clean*SIGN* / Kombi*SIGN* 72

Signalisation Index				
Optical			**Audible**	
LED Permanent Light		3	Continuous tone	3
LED Blinking Light		3		
LED EVS Light		5		

Fixed, three tier colour distribution in red, yellow and green

The "EVS" light effect ensures a maximum attention-grabbing effect (can be set with complete illumination)

ⓘ TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:

	Wall mounting	Base/Ceiling mounting
Dimensions (L x H x W):	112 mm x 485 mm x 125 mm	112 mm x 391 mm x 125 mm
Housing:	PA, black	
Lens:	PA, transparent	
Fixing:	Wall mounting, integrated mounting bracket Base mounting, Ceiling mounting	
Sound output:	85 dB (A)	
CleanSIGN 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**	**695 310 55**
CleanSIGN RGY		
Connection:	Screw terminal max. 1.5 mm²	
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**	**695 210 55**
CleanSIGN RGB		
Connection:	Screw terminal max. 1.5 mm²	
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: < 240 mA Buzzer: < 20 mA	
Order no.:	**695 000 55**	**695 010 55**

↔ TECHNICAL DIAGRAMS:

695

695.X10.55
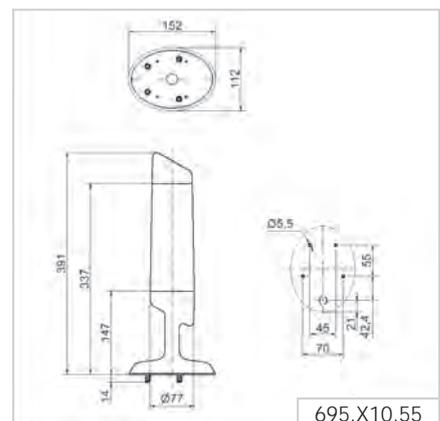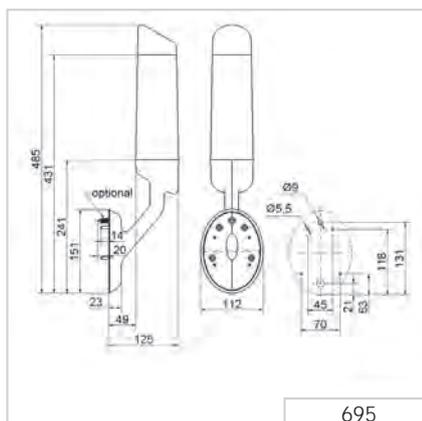
	695.300.55	695.310.55	695.200.55	695.210.55	695.000.55	695.010.55			
CE, EAC, CERTIFIED, IPA Fraunhofer TESTED DEVICE	557 g	534 g	426 g	419 g	451 g	444 g	IP67/IP69k	+50°C / -30°C	85 dB
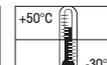
FlatSIGN - pre-assembled Signal Tower

Your benefits

The curved front of the FlatSIGN signal tower housing enables it to blend in uniformly with machine and building service applications. The 160-degree visibility angle ensures exceptional visibility even from the side.

- Easy to install – also on flush-mount enclosures
- TwinLIGHT combines two easily selectable light effects

Typical applications

Fault signalling or Access control

- in building service applications (e.g. server and equipment rooms)
- at access points in public areas

Installation options

- Wall mounting
- Additional installation options using accessories

Features

- Permanent or blinking light selectable
- Available with transparent housing or in metal design
- Optional integrated audible signal

TwinLIGHT

WERMA SIGNALTECHNIK

Size comparison FlatSIGN / KombiSIGN 72

Signalisation Index				
Optical			**Audible**	
LED Permanent Light		2	Continuous tone	2
LED Blinking Light		3	Multi-tone Sounder	4

In its inactive state, the signal tower blends into the background thanks to its colourless, translucent housing

FlatSIGN in metallic finish

The fixing kit consists of two tube clamps and an adaptor (accessory)

ⓘ TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:

Dimensions (L x H x W):	105 mm x 195 mm x 45 mm
Lower part:	PC-ABS, black
Upper part:	PC, transparent or silver
Fixing:	Wall mounting
Cable entry:	Cable diameter max. 11 mm
Connection:	Screw terminal max. 1.5 mm^2
Light effects:	Permanent or blinking light selectable
Audible signal:	Buzzer or multi-tone sounder (8 tones)
Sound output:	Max. 80 dB (A)
Colours:	Green, yellow, red

	Multi-tone Sounder	Buzzer (Continuous tone)
Voltage:	24 V DC	115-230 V AC
Current consumption:	Optical: 30 mA per tier	
	Audible: 30 mA	
FlatSIGN with transparent housing		
FlatSIGN without audible signal	**691 100 55**	**691 100 68**
FlatSIGN with audible signal	**691 200 55**	**691 200 68**
FlatSIGN in Metal Design		
FlatSIGN without audible signal	**691 300 55**	**691 300 68**
FlatSIGN with audible signal	**691 400 55**	**691 400 68**

⚒ ACCESSORIES:

Fixing Kit	**975 691 01**

↔ TECHNICAL DIAGRAMS:

691

45
3.2
195
22.24
97
105
Ø4.5
150
74
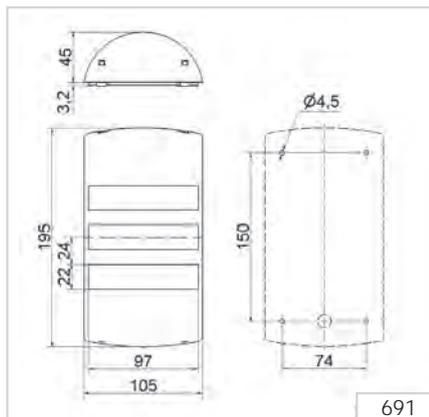
Max.
268 g
IP65
+50°C
-30°C
80 dB
8
691.X00.55

Vario*SIGN* - pre-assembled Signal Tower

Your benefits

With the Vario*SIGN* light effects and colours can be individually set and adjusted via dip-switches at any time - depending on the variant. The eye-catching illumination of the entire lighting body ensures an exceptional appearance and visibility.

- Flexible selection of colours and light effects
- Award-winning design

Typical applications

Fault signalling

- on machinery and equipment
- on automation systems

Installation options

- Base mounting

Features

- Optional integrated sounder
- Electronic modularity: i.e. colours and light effects are adjustable for each tier

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Size comparison Vario*SIGN* / Kombi*SIGN* 72
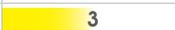
Signalisation Index			
Optical		**Audible**	
LED Permanent Light	3	Continuous tone	3
LED Blinking Light	3		
LED EVS Light	5		

Fixed, three-tier colour distribution in red, yellow and green

The "EVS" light effect ensures a maximum attention-grabbing effect (single colour distribution can be selected)

ⓘ TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:

Dimensions (L x H x W):	62 mm x 220 mm x 90 mm	
Housing:	PC/ABS-Blend, black	
Lens:	PC, transparent	
Fixing:	Base mounting	
Cable entry:	Cable diameter max. 11 mm	
Connection:	Screw terminal max. 1.5 mm^2	
Vario*SIGN* - red/yellow/green	**With buzzer**	**Without buzzer**
Colours:	Pre-set colours (red/yellow/green)	
Voltage:	24 V DC	
Current consumption:	Optical: < 55 mA per tier	
	Buzzer: < 20 mA	
2-sided	**690 300 55**	**690 320 55**
Vario*SIGN* - RGY		
Colours:	Red, yellow, green	
	Colours selectable by Dip-switch	
Voltage:	24 V DC	
Current consumption:	Optical: < 120 mA	
	Buzzer: < 20 mA	
2-sided	**690 200 55**	**690 220 55**
Vario*SIGN* - RGB		
Colours:	Red, yellow, green, white, blue, violet, turquoise	
	Colours selectable by Dip-switch	
Light effects:	Tier-by-tier illumination: Flashing light	
	Complete illumination: EVS	
Voltage:	24 V DC	
Current consumption:	Optical: < 300 mA	
	Buzzer: < 20 mA	
2-sided	**690 000 55**	-

↔ TECHNICAL DIAGRAMS:

690

CE   EAC

690.300.55	690.320.55	690.200.55	690.220.55	690.000.55
240 g	234 g	245 g	237 g	256 g

IP65   +50°C / -30°C   85 dB

61
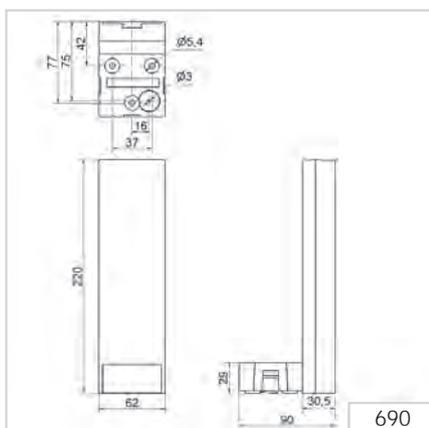
Ex LED Signal Tower - pre-assembled Signal Tower

Your benefits

The Ex Signal Tower is designed for use in explosive gas and vapour atmospheres (zones 1 and 2). No additional zener barrier is required.

- Light and compact Ex signal tower
- Many years of proven use in Ex-applications

Typical applications

Fault signalling

- in the processing and storage of highly flammable substances

Installation options

- Wall mounting

Features

- Combination of encapsulation "m" and intrinsic safety "ib" with connection area "e"
- For Gas applications: Zones 1 and 2
- For dust applications: Zones 21 and 22

Size comparison Ex signal tower / Kombi*SIGN* 72

Signalisation Index	
Optical	
LED Permanent Light	3

ⓘ TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:

Dimensions of the Zener Barrier (L x H x W):	76 mm x 110 mm x 75 mm
Dimensions total:	2 tier (L x H x W): 76 mm x 229 mm x 75 mm
	3 tier (L x H x W): 76 mm x 263 mm x 75 mm
Housing:	Polyamide, black
Signal tower:	PC
Connection:	Screw terminal max. 2.5 mm², incl. approved cable gland "e"
Explosion protection:	⟨Ex⟩ II 2G Ex e mb [ib] IIC T6 Gb
	⟨Ex⟩ II 2D Ex [ib] op is tb IIIC T80°C Db
Approval:	PTB 06 ATEX 2005
Voltage:	24 V DC
Current consumption:	< 90 mA
red/green	**741 110 55**
red/yellow	**741 120 55**
red/yellow/green	**741 130 55**

↔ TECHNICAL DIAGRAMS:

741

| CE | 2 G Zone 1 + 2 | 2 D Zone 21 + 22 | 2 tier 690 g | 3 tier 710 g | IP65 | +50°C -20°C | ⟨Ex⟩ |
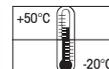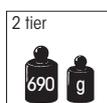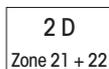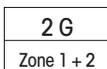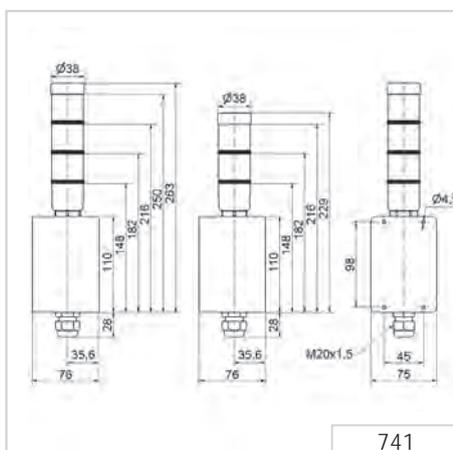
Overview Accessories for Signal Towers

Overview Accessories for Signal Towers			Classic-*LOOK*	Design-*LOOK*	Classic-*LOOK*	Design-*LOOK*	Classic-*LOOK*	Design-*LOOK*	
Accessory		KombiS*IGN* 71	KombiS*IGN* 72		KombiS*IGN* 40		**KOMPAKT 37**		Page
Cable, 5m		●							66
Bulb BA15d		●							66
Bracket for surface mounting, incl. cable gland M16 x 1.5		●							66 + 68
Bracket for 1-sided mounting, incl. rubber seal		●	●	●					66 + 68
Bracket for 2-sided mounting, incl. rubber seal		●	●	●					66
Bracket for tube mounting, incl. cable gland M16 x 1.5		●	●						72 + 73
Bracket for base mounting, with concealed cable entry, incl. rubber seal		●	●	●	●	●	●	●	72 + 73
Corner fixing bracket KOMPAKT 37 with Base-mount tube		●	●	●	●	●	●	●	72
Bracket for assembly on aluminium profiles, incl. cable gland M12 x 1.5		●	●		●		●		74 + 75
Bracket for concealed cable entry					●	●	●	●	74
Tube Ø 25 mm plastic, for direct mounting of the terminal element onto the Foldaway Base					●	●			69
Tube Ø 25 mm, all anodised aluminium		●	●						68 + 69
Tube with clamp Ø 25 mm, 250 mm long, incl. cable gland		●	●	●	●	●			69
Base with integrated tube Ø 25 mm, 110 mm long, plastic, incl. rubber seal		●	●		●				69 + 71
Base for tube Ø 25 mm, plastic, incl. rubber seal		●	●	●	●	●			69 + 71
Base for tube Ø 25 mm, metal, incl. rubber seal		●	●	●	●	●			69
Base with integrated tube		●	●		●				75
KombiS*IGN* reflect		●	●	●			●	●	66

Signal Towers

Overview Accessories for Signal Towers

Accessory		KombiSIGN 71	KombiSIGN 72 Classic-LOOK	KombiSIGN 72 Design-LOOK	KombiSIGN 40 Classic-LOOK	KombiSIGN 40 Design-LOOK	KOMPAKT 37 Classic-LOOK	KOMPAKT 37 Design-LOOK	Page
Cable gland for surface mounting, M16 x 1.5		●	●	●	●	●			69 + 71
Adaptor for single hole mounting, Ø 25 mm, M18		●	●	●					66 + 68
Adaptor for tube mounting Ø 25 mm		●	●	●					66 + 68
Indication board		●	●	●	●	●			66 + 74
Foldaway Base, Signal Tower can be folded away, incl. rubber seal		●	●		●				69
Foldaway Base, Signal Tower can be folded away, incl. rubber seal		●	●		●				69
Contact box for cable exit at side		●	●		●		●		72
Contact box with magnetic base and cable exit at side		●	●		●		●		72
Extension tube							●	●	75

Overview Accessories for Signal Towers

Accessory		deSIGN 42	FlatSIGN	Page
Surface housing single		●		76
Fixing kit			●	77

Overview Accessories for Signal Towers

KombiSIGN 71

Cable 5 m with M12 connector and plug
Order no. 960 000 46
Cable 5 m with M12 plug
Order no. 960 000 47
Cable 5 m
with M12 connector
Order no. 960 860 01
	Bulb BA15d,
	total length max. 42 mm
	  12 V, 5 Watt **955 840 34**
	  24 V, 5 Watt **955 840 35**
	  30 V, 5 Watt **955 840 32**
	115 V, 5 Watt **955 840 57**
	230 V, 5 Watt **955 840 38**	

KombiSIGN 71 and 72 - ClassicLOOK

Bracket for surface mounting incl. cable gland M16 x 1.5 **Order no. 960 000 02**	Adaptor for single hole mounting Ø 25 mm, M18 **Order no. 960 000 25**	Indication board (for tube mounting) **Order no. 960 000 05** Dimensions of indication board (W x H): 153 x 345 mm Surface area per section (W x H): c. 144 x 54 mm Avery/Zweckform 3424 (105 x 48 mm), Herma 4281 (105 x 50.8 mm) (not included in assembly) Material: PMMA
Adaptor for tube mounting Ø 25 mm / 1/2" NPT thread **Order no. 975 840 02**	Bracket for 1-sided mounting, incl. rubber seals **Order no. 975 840 85**	• For one to five modules • Simple mounting onto signal tower tube • Ample space for written information • Simply break off unwanted segments
Bracket for 2-sided mounting, incl. rubber seals **Order no. 975 840 86**	KombiSIGN reflect **Order no. 861 640 01** **Order no. 861 640 02**	

↔ TECHNICAL DIAGRAMS:

960.000.02

960.000.04

960.000.25

960.000.05

975.840.85

975.840.86

975.840.02

861.640.0X
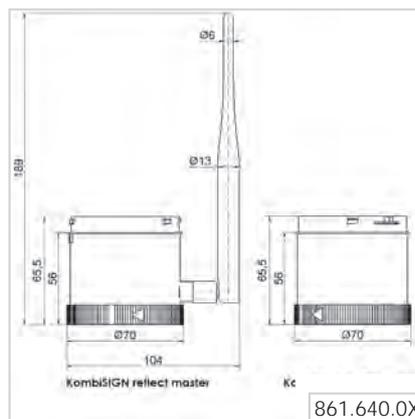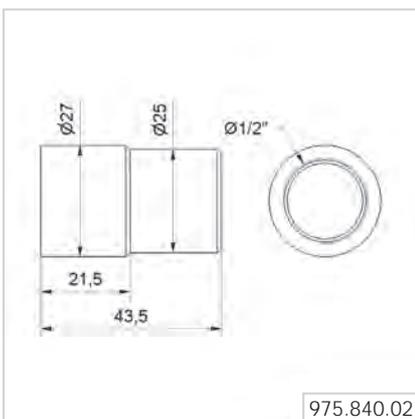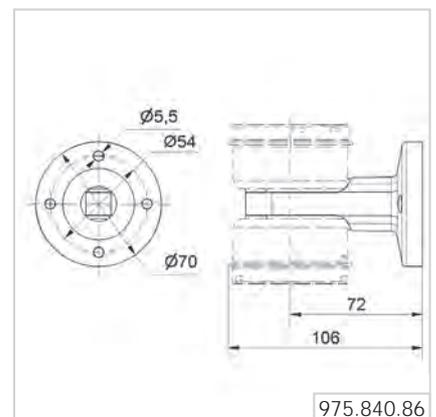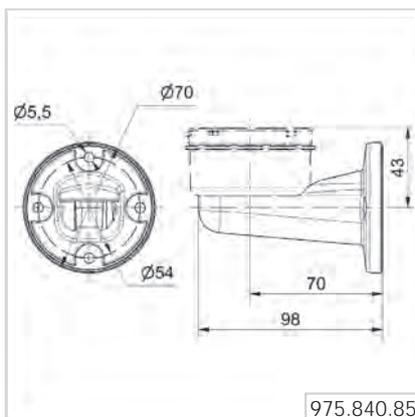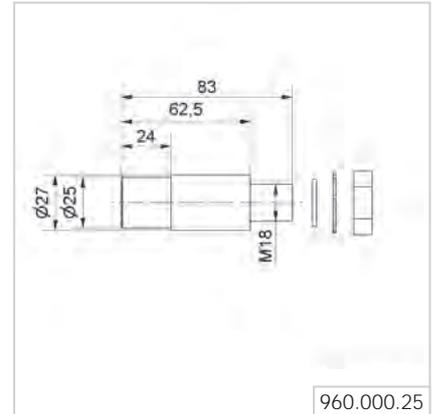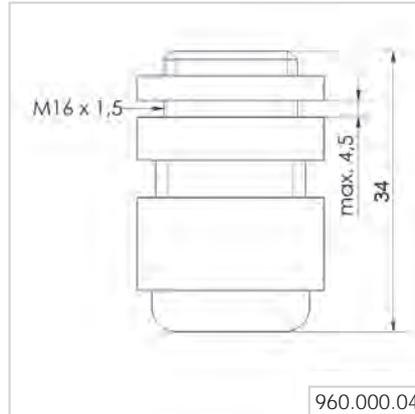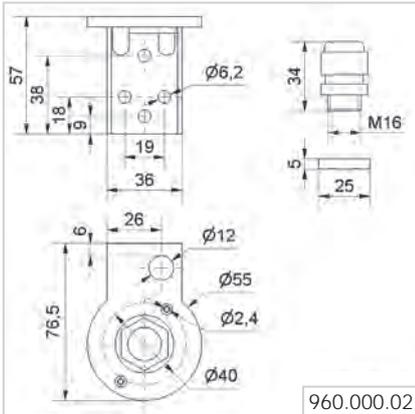
Overview Accessories for Signal Towers

KombiSIGN 72 - DesignLOOK
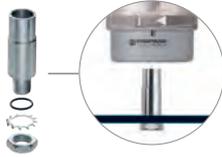
Adaptor for single hole mounting Ø 25 mm, M18 **Order no. 960 000 25**	Bracket for 1-sided mounting, incl. rubber seals **Order no. 960 000 52**	Bracket for surface mounting incl. cable gland M16 x 1.5 **Order no. 960 000 53**
Adaptor for tube mounting Ø 25 mm / 1/2" NPT thread **Order no. 975 840 02**	Tube Ø 25 mm, all anodised aluminium 100 mm long **975 845 10** 250 mm long **975 840 25** 400 mm long **975 840 40** 600 mm long **975 840 60** 800 mm long **975 840 80** 1000 mm long **975 840 03** **Technical Diagrams see page 70**	
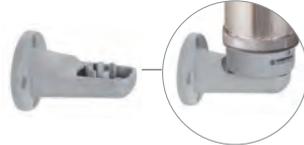
↔ TECHNICAL DIAGRAMS:

960.000.25

960.000.52

960.000.53

960.000.04

975.840.02
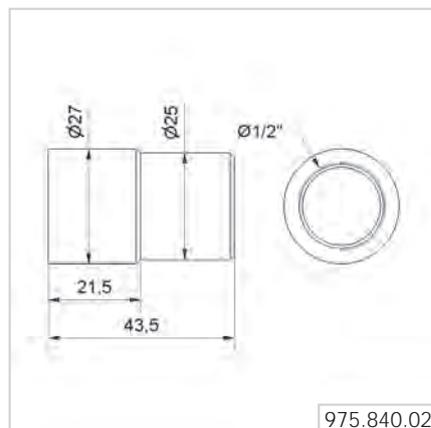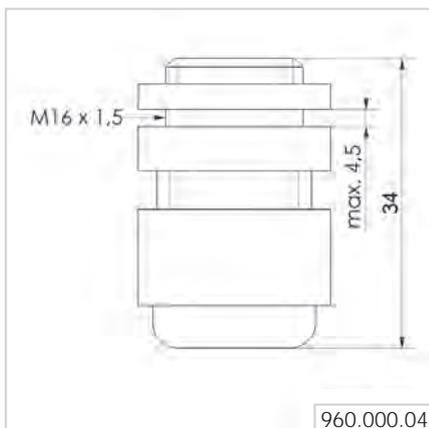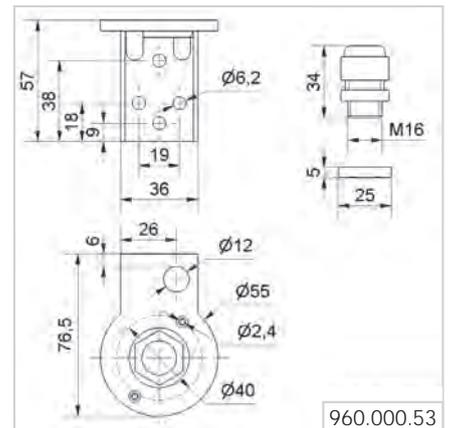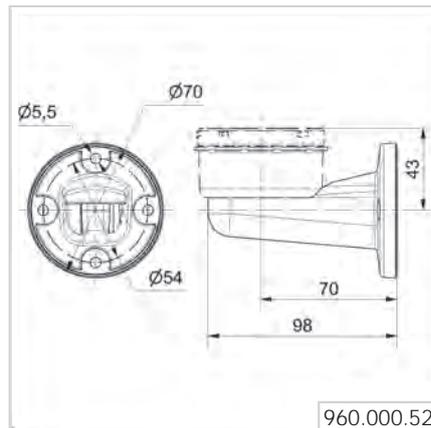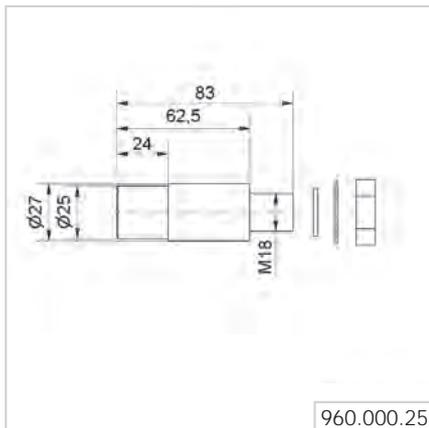
KombiSIGN 71,72 and 40 - ClassicLOOK

Foldaway Base - Signal Tower can be folded away, including rubber seal, for tube (all anodised aluminium) Ø 25 mm (not included in assembly)
Order no. 960 000 30

Dimensions (Ø x Height):	70 mm x 117 mm
Material:	PA-GF
Cable diameter:	Max. 14 mm
Fixing:	Vertical, horizontal, Positioning in 7.5° steps

QUICK AND SIMPLE MOUNTING:
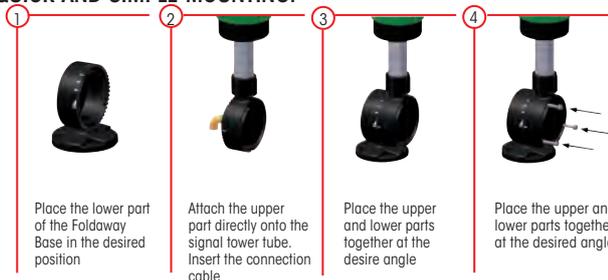
1. Place the lower part of the Foldaway Base in the desired position
2. Attach the upper part directly onto the signal tower tube. Insert the connection cable
3. Place the upper and lower parts together at the desire angle
4. Place the upper and lower parts together at the desired angle

Foldaway Base - Signal Tower can be folded away, including rubber seal, for tube (all anodised aluminium) Ø 25 mm (not included in assembly)
Order no. 960 009 12

Dimensions (Ø x Height):	70 mm x 85 mm
Material:	PA-GF
Cable diameter:	Max. 8 mm
Fixing:	Vertical, horizontal, Positioning in 0° and 90°

QUICK AND SIMPLE MOUNTING:

1. Place the „foldaway" base in the desired mounting position
2. Attach the tube adaptor directly to the signal tower and introduce the cable
3. Fix the whole assembly - tube adaptor and signal tower, in the desired position, vertically or horizontally - onto the foldaway base
4. Place the cover on the other open end
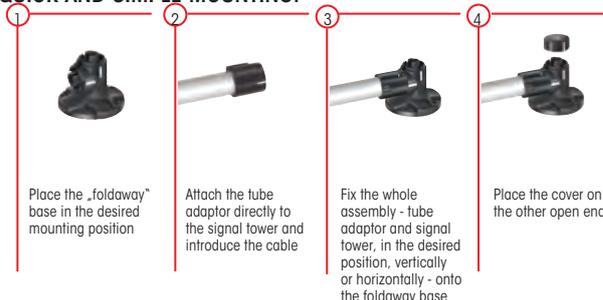
Tube with clamp, Ø 25 mm, 250 mm long, incl. cable gland
Order no. 960 000 18

Base with integrated tube, Ø 25 mm, 110 mm long, plastic, incl. rubber seal
Order no. 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**
600 mm long **975 840 60**
800 mm long **975 840 80**
1000 mm long **975 840 03**

Base for tube mounting, Ø 25 mm, plastic, incl. rubber seal
Order no. 975 840 90

Base for tube Ø 25 mm, metal, incl. rubber seal, recommended for tube lengths of 400 mm and longer
Order no. 975 840 91

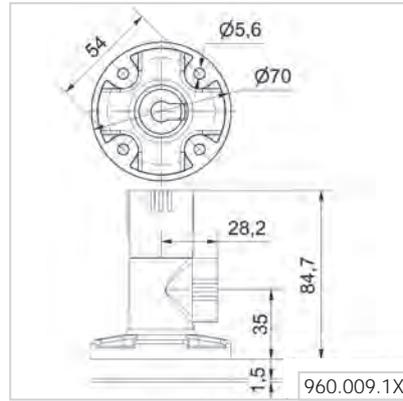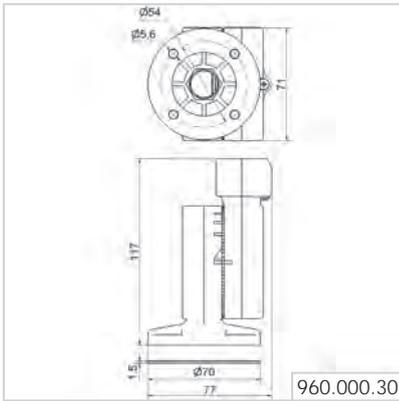Cable gland for surface mounting, M16 x 1.5
Order no. 960 000 04

Tube Ø 25 mm, plastic, 45 mm long, for direct mounting on foldaway base (only for KombiSIGN 71 and 72)
Order no. 960 000 31

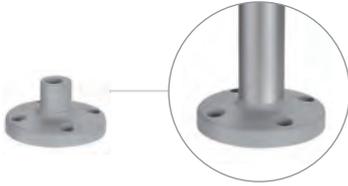# Overview Accessories for Signal Towers

↔ **TECHNICAL DIAGRAMS:**

960.000.30

960.009.1X

960.000.18

975.840.10

975.840.03

975.840.25

975.840.40

975.840.60

975.840.80

975.845.10

975.840.90

975.840.91
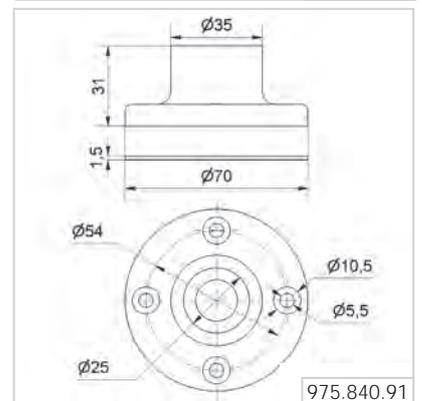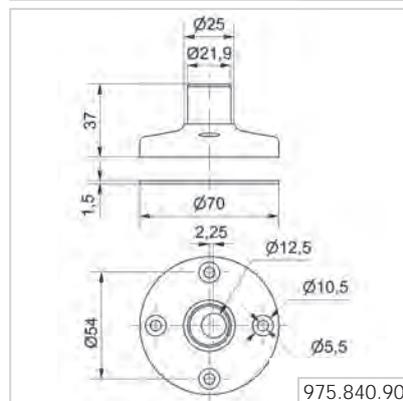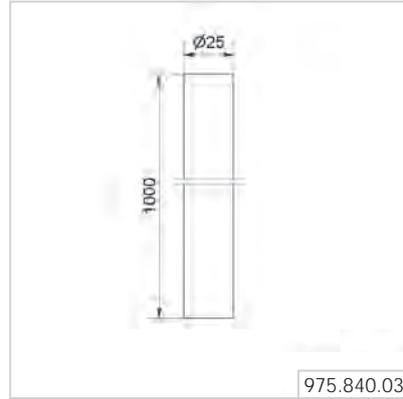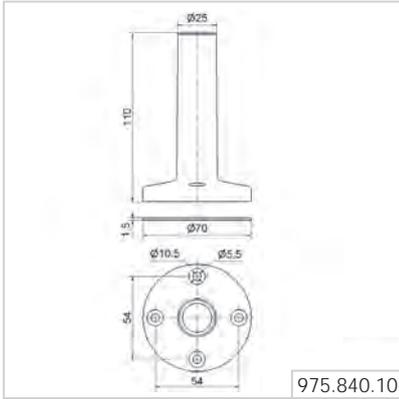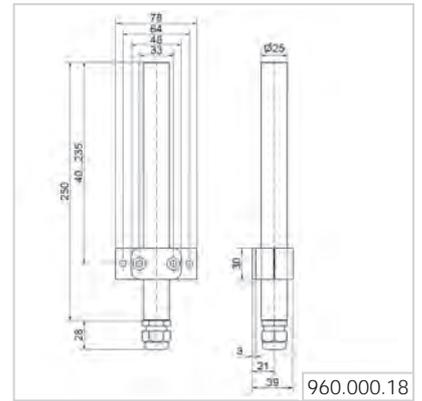
KombiSIGN 72 and 40 - DesignLOOK

Base for tube mounting, Ø 25 mm, plastic, incl. rubber seal **Order no. 960 000 50**	Base with integrated tube, Ø 25 mm, 110 mm long, plastic, incl. rubber seal **Order no. 960 000 51**	Cable gland for surface mounting, M16 x 1.5 **Order no. 960 000 04**

↔ **TECHNICAL DIAGRAMS:**

960.000.50

960.000.51

Overview Accessories for Signal Towers

KombiSIGN 71, 72, 40 and KOMPAKT 37 - ClassicLOOK

Bracket for tube mounting, incl. cable gland M16 x 1.5 **Order no. 960 000 01**	Bracket for base mounting, with concealed cable entry, incl. rubber seals **Order no. 960 000 14**	Corner fixing bracket (KOMPAKT 37 with Base-mount tube) **Order no. 960 000 41**
Contact box for cable exit at side, with mounting material and seal, cable gland M16 x 1.5 **Order no. 975 840 01**	Contact box with magnetic base and cable exit at side cable gland M16 x 1.5 **Order no. 975 840 04**	

↔ TECHNICAL DIAGRAMS:

960.000.01

960.000.14

960.000.41

975.840.01

975.840.04

KombiSIGN 72, 40 and KOMPAKT 37 - DesignLOOK

Bracket for tube mounting, incl. cable gland M16 x 1.5 **Order no. 960 000 54**	Bracket for base mounting, with concealed cable entry, incl. rubber seals **Order no. 960 000 55**	

↔ TECHNICAL DIAGRAMS:

960.000.54

960.000.55
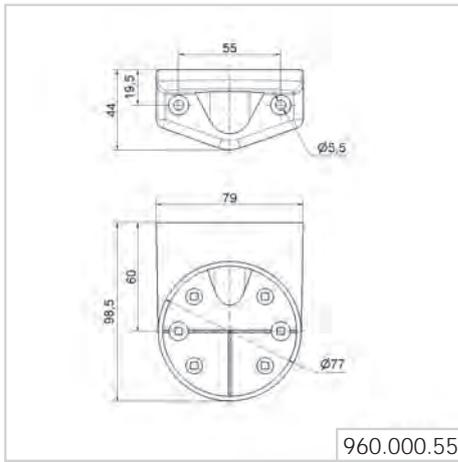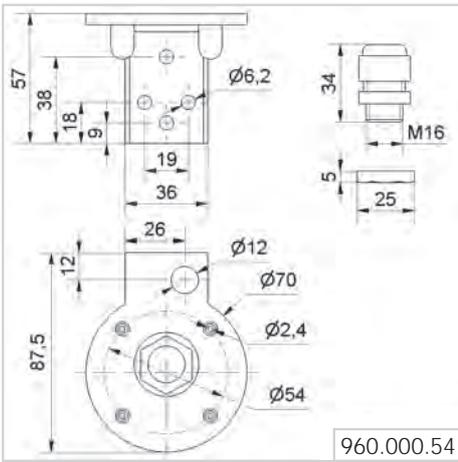
Overview Accessories for Signal Towers

KombiSIGN 40 - ClassicLOOK

Bracket for assembly on aluminium profiles incl. cable gland M12 x 1.5 **Order no. 960 630 02**	Bracket for concealed cable entry **Order no. 960 630 01**	Indication board (base/wall mounting) **Order no. 960 630 08** Indication board (tube mounting) **Order no. 960 630 09**

KombiSIGN 40 - DesignLOOK

Bracket for assembly on aluminium profiles incl. cable gland M12 x 1.5 **Order no. 960 630 06**	Bracket for concealed cable entry **Order no. 960 630 05**	Indication board (base/wall mounting) **Order no. 960 630 08** Indication board (tube mounting) **Order no. 960 630 09**

↔ **TECHNICAL DIAGRAMS:**
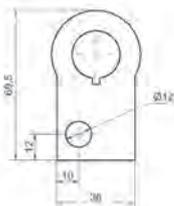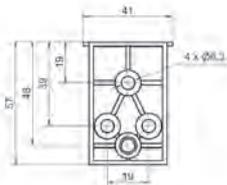
960.630.02
960.630.06
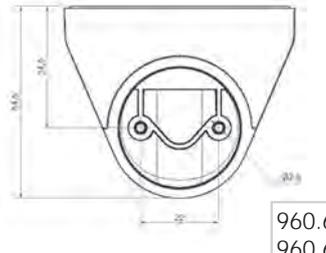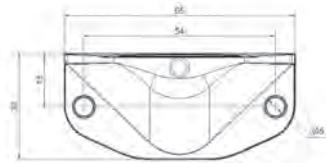
960.630.01
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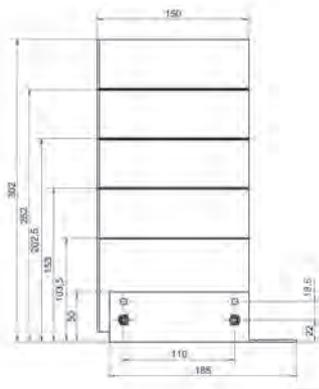
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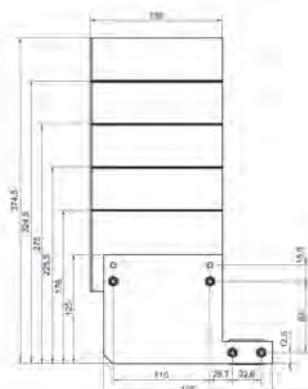
960.630.09

KOMPAKT 37 - Classic*LOOK*

Extension tube	Base with integrated tube	Bracket for assembly on aluminium profiles
Order no. 960 698 02	**Order no. 960 698 01**	**Order no. 960 630 02**

KOMPAKT 37 - DesignLOOK
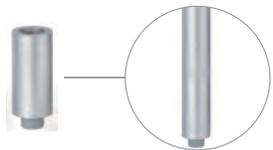
Extension tube	Base with integrated tube	Bracket for assembly on aluminium profiles
Order no. 960 698 04	**Order no. 960 698 03**	**Order no. 960 630 06**

↔ TECHNICAL DIAGRAMS:

Ø37,5
80
13
M22x1,5

960.698.02
960.698.04

Ø37,5
81,5
1,5
Ø70
Ø10,5
Ø54
Ø5,5
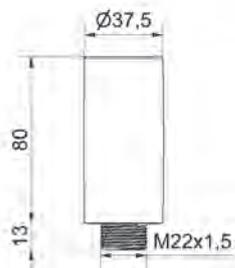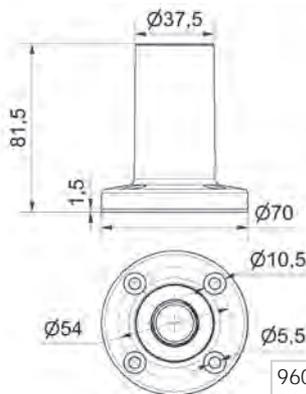
960.698.01
960.698.03
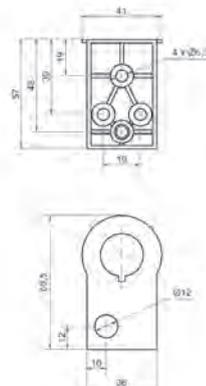
960.630.02
960.630.06

Overview Accessories for Signal Towers
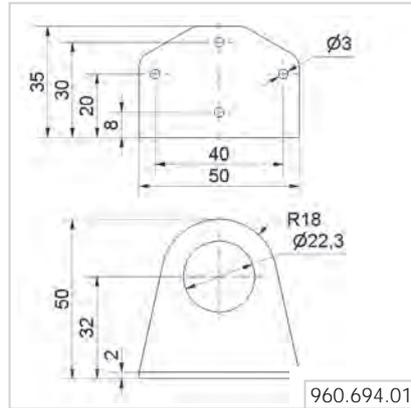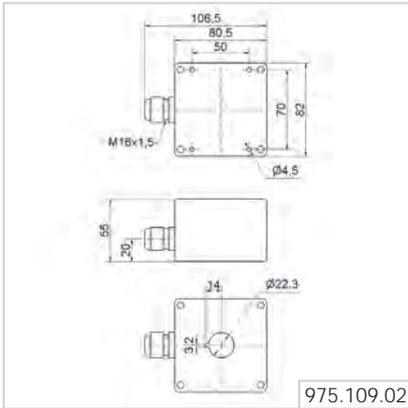
DeSIGN 42

Surface housing single **Order no. 975 109 02**	Bracket, stainless steel (Protection rating IP33) **Order no. 960 694 01**

↔ **TECHNICAL DIAGRAMS:**

975.109.02

960.694.01
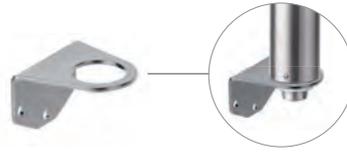
FlatSIGN

Fixing kit
Order no. 975 691 01

↔ **TECHNICAL DIAGRAMS:**

975.691.01