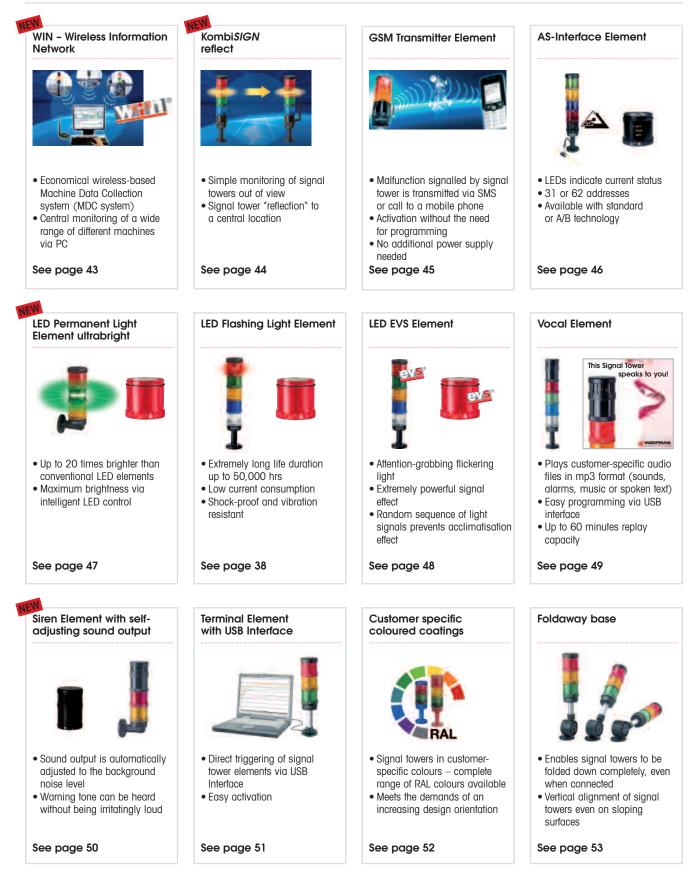
## Signal Tower KombiSIGN 70

#### This is how you can assemble your KombiSIGN 70 signal tower!



**VERMA** SIGNALTECHNIK

#### The Highlights for KombiSIGN 70





## 840

## Signal Tower KombiSIGN 70







Bracket (accessory)



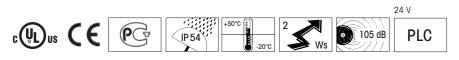
Tube mounting (accessory)

• Signal tower system 70 mm Ø with modular construction

• 360° visibility

- Wide range of optical and audible elements
- Elements can be assembled as required

TECHNICAL SPECIFICATIONS:		
Dimensions (Ø x Height):	Terminal element: 70 mm x 30.5 mm Light element: 70 mm x 65.5 mm Audible element: 70 mm x 72/79/110 mm	
Housing:	Terminal element: PA fibreglass, high-impact Cap: PC/ABS-Blend	
Lens:	PC, transparent Audible and ASI elements: PC/ABS-Blend	
Fixing:	Base mounting Tube mounting, for tube Ø 25 mm Bracket mounting (accessory)	
Socket: Connection:	Bayonet, B15d, for bulb max. 7 W Screw terminal max. 2.5 mm <sup>2</sup>	
	Contact protection according to VDE	
Cable entry:	Cable diameter max. 14 mm	
Element seal: Protection rating:	Pre-mounted with each module Light elements: IP 54	
Protection runny:	Audible elements: IP 54 (Order no. 844 123 55 = IP 40)	
Number of modules possible:	Max. 5/with 2-sided bracket max. 10 elements	
Permanent light element	12 - 240 V≂ Bulb not included in assembly	
LED Permanent light element Current consumption:	24 V≂ 115 V~ 230 V~ < 30 mA < 20 mA < 20 mA	
LED Permanent light element ultrabrig Life duration: Current consumption: Up to 20 times brighter than convention	Up to 50,000 hrs Max. 190 mA	
Flashing light element (Xenon)	24 V == 115 V ~ 230 V ~	
Life duration: Current consumption: Reduced for AS-Interface: Flash frequency:	4 x 10° flashes 125 mA 22 mA 15 mA 80 mA c. 1 Hz	
<b>LED Flashing light element</b> Life duration: Current consumption: Flash frequency:	24 V == 50,000 hrs < 30 mA (red/yellow) < 25 mA (green/clear/blue) c. 1 Hz (Double Flash)	
LED EVS* element Current consumption: * EVS = Enhanced Visibility System	24 V == 350 mA (red/yellow) 250 mA (green/clear/blue)	
<b>LED Blinking light element</b> Current consumption: Blink frequency:	24 V≂ 115 V~ 230 V~ 25 mA 25 mA 25 mA c. 1 Hz	
<b>LED Rotating light element</b> Current consumption: Rotation frequency:	24 V ≂ 70 mA tmproved c. 120 r.p.m. tight effect	









Further voltages on request.



see page 285 onwards



P

230 V~ 843 100 68

843 200 68

843 300 68

843 400 68

843 500 68

 $230 V \sim$ 

842 100 68

842 200 68

842 300 68

842 400 68

842 500 68

 $230 V \sim$ 

843 110 68

843 210 68

843 310 68

843 410 68

843 510 68

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## Signal Tower KombiSIGN 70





	AUDIBLE ELEME	ENTS:	
<b>uzzer element</b> 5 dB, 25 mA, IP 54, ontinuous or pulse tone	24 V≂ 844 118 55	115 V~ <b>844 118 67</b>	230 V~ <b>844 118 68</b>
<b>iren element</b> 05 dB, 150 mA, IP 40 ontinuous tone alternating	24 V <del></del> <b>844 123 55</b> no UL / CSA appro	val	
lulti-functional Siren OO dB, IP 54, different tones, adjustable sound output	844 126 55	115 V~/40 mA <b>844 126 67</b>	230 V~/40 mA 844 126 68
<b>lulti-functional Siren, an be triggered externally</b> 00 dB, 80 mA, IP 65, 7 diff. tones can t umber of tones depending on the number			l output,
<b>iren element with</b> elf-adjusting sound output echnical specifications see page 51. vailable: 1st Quarter 2011.	24 V <i>≕</i> 844 810 55		
		MENTS :	
erminal element for tube mounting ncl. cap		840 080 00	
erminal element for bracket or base in ncl. cap und rubber seal	mounting	840 085 00	
erminal element with ISB Interface (for tube mounting) echnical specifications see page 51.		840 580 00	
	KOMBI <i>SIGN</i> -H	IGHLIGHTS:	
/IN system for Kombi <i>SIGN</i> 70 echnical specifications see page 43.		860 840 01	
<b>/IN slave for Kombi<i>SIGN</i> 70</b> echnical specifications see page 43.		860 840 02	
ombi <i>SIGN</i> 70 reflect echnical specifications see page 44.		861 840 01	
SM Transmitter Element or Kombi <i>SIGN</i> 70 echnical specifications see page 45.		24 V <i></i> <b>840 700 55</b>	
ocal Element or Kombi <i>SIGN</i> 70 echnical specifications see page 49.		24 V <i>≕</i> 844 840 55	
S-Interface Element or Kombi <i>SIGN</i> 70		Standard Slave 24 V <b>840 830 55</b>	A/B-Slave 24 V 840 810 55
echnical specifications see page 46.			



# Signal Towers • modular KombiS/GN 70

40 www.werma.com

## Accessories for Signal Tower KombiSIGN 70



Contact box for cable exit at side, with mounting material	975 840 01
Contact box with magnetic base and cable exit at side	975 840 04
Bracket for tube mounting with cable gland	960 000 01
Bracket for surface mounting with cable gland	960 000 02
Bracket for base mounting with concealed cable entry, incl. rubber seals	960 000 14
Bracket for 1-sided mounting, incl. rubber seals	975 840 85
Bracket for 2-sided mounting, incl. rubber seals	975 840 86
Tube with clamp, Ø 25 mm 250 mm long, with cable gland	960 000 18
Tube Ø 25 mm, all anodized aluminium	
100 mm long	975 845 10
250 mm long	975 840 25
5	975 840 40 975 840 60
600 mm long 800 mm long	975 840 80
1000 mm long	975 840 03
Tooo min long	975 640 05
Foldaway Base incl. rubber seals, suitable for tube, Ø 25 mm, all anodized aluminium (Technical specifications see	<b>960 000 30</b> page 53)
Tube Ø 25 mm, plastic for mounting the Terminal Element directly on the Foldaway Ba	<b>960 000 31</b> Ise
Base for tube mounting Ø 25 mm, plastic, incl. rubber seal	975 840 90
Base for tube mounting Ø 25 mm, metal, incl. rubber seal, recommended for tube lengths of 400 mm and longer	975 840 91
Base with integrated tube, Ø 25 mm, 110 mm long, plastic, incl. rubber seal	975 840 10
Adaptor for tube mounting, Ø 25 mm / 1/2″ NPT thread	975 840 02
Adaptor for single hole mounting Ø 25 mm, M 18	960 000 25
Cable gland for surface mounting M 16 x 1.5 mm	960 000 04
TECHNICAL DIAGRAMS:	

see page 292 onwards





## Accessories for Signal Tower KombiSIGN 70







Bulb BA	15d, tota	I length max. 42 mm
(for peri	manent li	ght 641)
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

#### LED bulb BA15d, total length max. 42 mm

(for permanent light 8	40)		
Voltage	24 V≂	115 V~	230 V~
Current consumption	< 45 mA	< 15 mA	< 15 mA
red	956 100 75	956 100 67	956 100 68
green	956 200 75	956 200 67	956 200 68
yellow	956 300 75	956 300 67	956 300 68
white	956 400 75	956 400 67	956 400 68
blue	956 500 75	956 500 67	956 500 68

#### Indication Board

- Indication Board for one to five modules
- Simple mounting onto signal tower tube
- Ample space for written information
- Simply break off unwanted segments

Dimensions of indication board (W x H):	153 x 345 mm
Surface area per section (W x H):	c. 140 x 50 mm
Material:	РММА
Assembly:	Indication board (5 sections)
	incl. mounting material
Mounting:	Fixing only possible on 25 mm diameter tube
Indication board	960 000 05

Info transparencies: To place inside optical elements, not for use in Flashing Light, LED EVS, LED Flashing Light and LED Permanent Light Element ultrabright.

neutral	975 840 49	number "6"	975 840 56	
number "0"	975 840 50	number "7"	975 840 57	
number "1"	975 840 51	number "8"	975 840 58	
number "2"	975 840 52	number "9"	975 840 59	
number "3"	975 840 53	number "10"	975 840 92	
number "4"	975 840 54	arrow	975 840 62	
number "5"	975 840 55			

#### ADDITIONAL INFORMATION:

You will find an overview of the entire range of accessories for Kombi*SIGN* Signal Towers on pages 60 and 61.

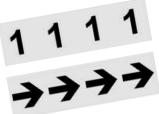
TECHNICAL DIAGRAMS:

see page 290 + 291



IP54







## WIN\* for KombiSIGN 70



dinO



"WIN system" is immediately ready for use: Fit the slaves in the existing signal towers and connect the master to the PC

- Economical wireless-based Machine Data Collection system (MDC system)
- Central monitoring of a wide range of different machines via PC
- Relevant machine information at a glance

- Reduction of reaction times, repair and maintenance requirements and costs
- No additional wiring as existing WERMA signal towers can be used
- Downtime analysis



With the supplied software, users can wirelessly monitor their machinery via PC



The software enables users to analyse productivity and increase the efficiency of their machines



The software displays the status of the signal towers integrated into the wireless network

I TECHNICAL SPECIFICATIONS: Potent pendito		
WIN slave	Pulo	
<b>Dimensions</b> (Ø x Height):	70 mm x 65.5 mm	
Housing:	PC, black	
Connection:	Bayonet	
Operating voltage:	24 V ≂	
Current consumption:	40 mA	
WIN master		
Dimensions (L x H x W):	76 mm x 30 mm x 80 mm (without antenna)	
Housing:	ABS, black	
Connection:	Via USB	
Operating voltage:	Via USB	
Current consumption:	< 100 mA	
Suitable for:	Windows 2000, Windows XP, Windows Vista, Windows 7	
Wireless connection		
ISM frequency:	868 MHz (WIN conforms to the EU's EN 300220 harmonised standard and can thus be used in all EU member countries. Further countries upon request.)	
Transmission range:	Up to 300 m (unobstructed line of sight) Every slave simultaneously functions as a "repeater", enabling the transmission range to be significantly increased.	

#### ₩ **ORDER SPECIFICATIONS:**

WIN system for KombiSIGN 70 860 840 01 Assembly: WIN master, 3 WIN slaves KombiSIGN 70 (pre-configured), Software

To expand WIN system.

### 860 840 02

The network can be expanded to up to 50 WIN slaves.

#### <u>^</u> **ADDITIONAL INFORMATION:**

#### \* WIN = Wireless Information Network

Further informationen can be found in the chapter "Tech-Talk" beginning on page 320.

#### **TECHNICAL DIAGRAMS:**

#### see page 288

WIN slave for KombiSIGN 70





## 861

## KombiSIGN reflect for KombiSIGN 70





The slave sends the status directly to the master, and reflects the status of the signal tower installed on the machine



Remote transmission via wireless signal with a maximum range of up to 300 m (unobstructed line of sight)



Simply fit the KombiSIGN reflect slave to the signal tower on the machine

- Simple monitoring of signal towers
  KombiSIGN reflect is integrated out of view
- Signal tower "reflection" to a central location
- Shortening of reaction times and reduction of costs

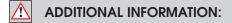
#### i **TECHNICAL SPECIFICATIONS:**

- into existing WERMA signal towers
- No additional wiring costs
- Simple commissioning due to pre-configured modules

<u>Slave</u>		
Dimensions (Ø x Height):	70 mm x 65.5 mm	
Housing:	PC, black	
Connection:	Bayonet	
Operating voltage:	24 V≂	
Current consumption:	40 mA	
Master		
Dimensions (Ø x Height):	70 mm x 65.5 mm (without antenna)	
Housing:	PC, black	
Connection:	Bayonet	
Operating voltage:	24 V	
Current consumption:	40-90 mA	
Wireless connection		
ISM frequency:	868 MHz (Kombi <i>SIGN</i> reflect conforms to the EU's EN 300220 harmonised standard and can thus be used in all EU member countries. Further countries upon request.)	
Transmission range:	Up to 300 m (unobstructed line of sight)	

KombiSIGN 70 reflect

861 840 01

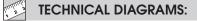


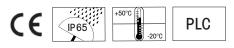
#### Signal tower "reflection"

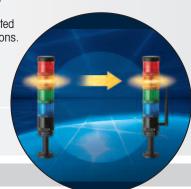
WERMA Signaltechnik provides a simple solution for the remote wireless monitoring of machinery. The new "KombiSIGN reflect" kit can be integrated into existing signal towers which are already installed on your machines. KombiSIGN reflect "reflects" the status of the machine to a signal tower within your line of sight.

This enables you to wirelessly monitor machines situated at a greater distance and respond quickly to malfunctions. With KombiSIGN reflect, even machines which where not previously network-capable can now be remotely monitored.

Further informationen can be found in the chapter "Tech-Talk" on page 324.











#### GSM Transmitter Element for KombiSIGN 70 840



- Unique Signal Tower solution
- GSM transmitter element can be simply integrated into an existing signal tower
- Activation without the need for programming

#### i **TECHNICAL SPECIFICATIONS:**

- Malfunction signalled by signal tower is transmitted via SMS to a mobile phone
- No additional power supply needed
- Also suitable for US frequencies (Quadband)

Dimensions (Ø x Height):
Housing:
Current consumption:
Max. current draw (momentary):
GSM frequency:
Plug-in slot for SIM card:
Antenna connection:
Plug-in slot for SIM card:

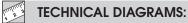
70 mm x 65.5 mm (without antenna) PC 50 mA 450 mA 850, 900, 1800/1900 MHz Integrated (SIM card is not included in assembly) FME plug connector (bracket antenna included)

#### ₩/ **ORDER SPECIFICATIONS:**

**GSM** Transmitter Element

24 V ---840 700 55

Also suitable for US frequencies









Signal Towers • modular KombiSIGN 70



#### Cable not included in assembly



LEDs displays the current status

• LEDs indicate current status

for KombiSIGN 70

**AS-Interface Element** 

**TECHNICAL SPECIFICATIONS:** 

31 or 62 addresses

1

- Available with standard or A/B technology
- Voltage supply switchable from internal bus supply to additional external voltage supply
- With addressing socket

	Standard Slave	A/B-Slave
Number of addresses:	Max. 31	Max. 62
Number of signal elements:	Max. 4	Max. 3
IO-Code:	8	8
ID-Code:	F	A
ID2-Code:	-	E
Outputs:	4 semiconductor relays	3 semiconductor relays
Approved in accordance with:	Spec. V 3.0	Spec. V 3.0
Specif. Power supply		
AS-Interface Element:	Via bus conduction	
Operating voltage:	25 V 31.6 V according to	the AS-Interface specification
Reverse battery protection:	Integrated	
Watchdog:	Integrated	
Watchdog: Additional external voltage:	0	
0	Integrated	
0	Integrated	With external add. voltage
Additional external voltage: Current carrying cap. Σ Imax:	Integrated 24 V +/- 10%	With external add. voltage 200 mA per signal element
Additional external voltage: Current carrying cap. $\Sigma$ Imax: Current consumption max:	Integrated 24 V +/- 10% With internal add. voltage	•
Additional external voltage: Current carrying cap. Σ Imax:	Integrated 24 V +/- 10% With internal add. voltage 200 mA	200 mA per signal element

#### **W**ORDER SPECIFICATIONS:

AS-Interface Element

Standard Slave 840 830 55

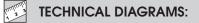
A/B-Slave 840 810 55

#### ADDITIONAL INFORMATION:



The Kombi*SIGN* Signal Towers 70 and 71 with AS-Interface Element are capable of total communication: Through simple integration of an AS-Interface Element the actuators are connected to the networking system Actuator-Sensor-Interface – this considerably reduces complex wiring. The necessary power supply

(supply via bus or external) can be selected with a switch. This element is mounted as the first tier of the individual signal tower directly on top of the terminal element. (Further Information see page 319).







## LED Permanent Light Element ultrabright for KombiSIGN 70



- Up to 20 times brighter than conventional LED elements
- Extremely good visibility even in direct sunlight

• Life duration up to 50,000 hrs

- Maximum brightness via intelligent LED control
- Low current consumption and maintenance-free
- Shock-proof and vibration-

	resistant
<b>I</b> TECHNICAL SPECIFIC	ATIONS: Life duration up to 50,000 hrs
Dimensions (Ø x Height):	70 mm x 65.5 mm
Lens:	PC, transparent
Seal:	Pre-mounted with each element
Number of modules possible:	5, with 2-sided bracket max. 10
Current consumption:	Max. 190 mA

#### ₩/ **ORDER SPECIFICATIONS:**

LED Permanent light element ultrabright	24 V
red	843 180 55
green	843 280 55
yellow	843 380 55
clear	843 480 55
blue	843 580 55

#### ∕♪ **ADDITIONAL INFORMATION:**

#### Sophisticated triggering

Thanks to its sophisticated triggering, the innovative LED element "ultrabright" is up to 20 times brighter than conventional LED elements - making it almost certainly the brightest permanent light that the world of signalling technology currently has to offer.

Furthermore, the intelligent electronics ensure that the LEDs operate at maximum brightness, depending on the ambient and operating temperatures. The "ultrabright" LED element is therefore always working at its optimum, and the energysaving LED technology ensures that power consumption is kept to a minimum.

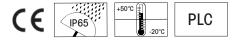
Further informationen can be found in the chapter "Tech-Talk" beginning on page 325.

**TECHNICAL DIAGRAMS:** 

see page 285



The high level of brightness guarantees good visibility even in direct sunlight







Maximum brightness via intelligent LED control



## LED EVS\* Element for KombiSIGN 70





- Attention-grabbing flickering light
- Developed on a neurobiological basis
- Extremely powerful signal effect
- Random sequence of light signals prevents acclimatisation effect
- For signalling extremely hazardous situations and the need for immediate action

Dimensions (Ø x Height):	CATIONS:  Life duration    70 mm x 65.5 mm  up to 50,000 hrs
Lens:	PC, transparent
Seal:	Pre-mounted with each element
Number of modules possible:	5, with 2-sided bracket max. 10
Current consumption:	red / yellow: 200 mA green / blue / clear: 150 mA

#### ORDER SPECIFICATIONS:

Voltage	24 V
red	843 140 55
green	843 240 55
yellow	843 340 55
clear	843 440 55
blue	843 540 55

#### ∕ो **ADDITIONAL INFORMATION:**

\* EVS = Enhanced Visibility System or Enhanced Visibility System Further informationen can be found in the chapter "Tech-Talk" on page 326.

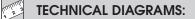
#### EVS – Attention-grabbing light effect on neurobiological basis

The flickering of neon lamps and comparable light effects are highly effective at attracting our attention. The neurobiological basis of this phenomenon is explained by a university scientist as follows: Light signals are processed in the human brain, not directly in the eye.

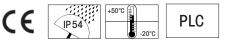
In order to be consciously registered there, incoming stimuli first have to pass through a form of filter. This filter has a "protective" function. During sleep it reduces disturbing stimuli to a minimum and assists in "overlooking" regular or continuous signals.

#### EVS - Flickering light without acclimatisation effect

On the basis of this understanding, WERMA's R+D department set out to find a flickering light with a high degree of effectivity in attracting attention. In a multistage laboratory experiment 20 test candidates were asked to judge a series of different light signals and to determine the most eye-catching light. The result of the study was a stochastic flickering light with optimal attention-grabbing characteristics: EVS – Enhanced Visibility System! The light effect of this system is completely new and distinguishes it from all previous systems.



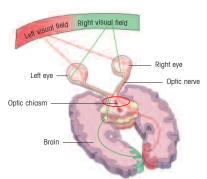
see page 285







Integrated into the KombiSIGN Signal Towers, the new EVS LED Element generates a highly attention-grabbing signal



The way in which the brain processes visual stimuli formed the basis for the development of the new EVS technology

## Vocal Element for KombiSIGN 70





The vocal element can be combined with up to 3 signal elements



Individual messages can be recorded via the headset with microphone directly on to the PC (accessory, specific version may vary from photo)

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- Plays customer-specific audio files in mp3 format (sounds, alarms, music or spoken text)
- Easy programming via USB interface
- Excellent sound quality
- **I** TECHNICAL SPECIFICATIONS:
- Up to 60 minutes replay capacity
- Positive and negative logic possible
- Adjustable sound output

	CAILONG.
Dimensions (Ø x Height):	70 mm x 111 mm PC mp <sup>3</sup> compatible
Housing:	PC mp3 component
Current consumption:	400 mA
Integrated memory:	Approx. 60 min. of replay capacity
Number of sequences	
recordable:	15, depending on the number of signal elements
Number of additionally	
signal elements:	Max. 3
Programming:	Via USB connection cable from PC
Sound output:	Adjustable, max. 85 dB
Assembly includes USB connecti	ion cable.

#### ORDER SPECIFICATIONS:

Vocal element
---------------

24 V ---**844 840 55** 

#### ACCESSORIES:

Headset with microphone

960 645 01

#### TECHNICAL DIAGRAMS:

see page 286

#### This Signal Tower communicates with you – the WERMA Vocal Element!









## Siren Element with self-adjusting sound output for Kombi*SIGN* 70





- Automatic sound output adjustment between 80 and 100 dB
- Sound output is c. 5 dB louder than the background noise level
- Continual measurement of the ambient noise level
- Ideal for applications with changing ambient sound levels

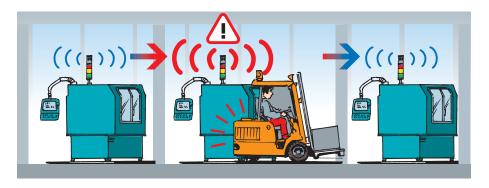
<b>i</b> TECHNICAL SPECIFIC	CATIONS:	, h
Dimensions (Ø x Height):	70 mm x 111 mm	Loud enough
Housing:	PC	vet not disturbing
Tone type:	Pulse tone	not distuict
Tone frequency:	2.5 KHz	
Sound output:	80 dB - max. 100 dB	

#### **ORDER SPECIFICATIONS:**

Voltage: Current consumption: 24 V <del>--</del> < 150 mA **844 810 55** 

#### ADDITIONAL INFORMATION:

The siren element adjusts its sound output through continual measurement of the ambient noise level. The emitted tone is c. 5 dB louder than the background noise level. The warning signal can always be heard without being irritatingly loud for people in the sounder's vicinity.





#### TECHNICAL DIAGRAMS:





## 840

## Terminal Element with USB Interface for Kombi*SIGN* 70



- Automatic sound output adjustment between 80 and 100 dB
- Sound output is c. 5 dB louder than the background noise level
- Continual measurement of the ambient noise level
- Ideal for applications with changing ambient sound levels

Dimensions (Ø x Height):	70
Material:	PA
Fixing:	Tuł
Connection:	US
	Ass
	0.01

70 mm x 30.5 mm PA-GF, shock resistant Tube mounting USB-Bus Assembly includes installation software and USB connection cable (AWG 22), 2 m long Maximum permitted length of USB cable (min. AWG 22): 7 m

975 840 10

Current carrying capacity Imax:

#### ORDER SPECIFICATIONS:

Terminal element USB

24 V ---**840 580 00** 

100 mA

Base with integrierted tube	

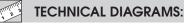
lube mounting	with base for ful	pe (metal)	975 840 91
Tube Ø 25 mm	1		
100 mm long	975 845 10	250 mm long	975 840 25
400 mm long	975 840 40	600 mm long	975 840 60
800 mm long	975 840 80	1000 mm long	975 840 03



#### Direct triggering via USB Interface

In many applications, it is necessary to indicate operating states or faults by means of an optical signal. A PLC or machine controller is not available in all areas; PCs are often also connected to control the machines. The optimal solution for this is the terminal element with USB interface for Kombi*SIGN* 70, 71 and Kompakt 71.

This innovation in the field of signal towers is controlled directly from the PC and can therefore be put into operation easily and in an uncomplicated manner. Neither a separate power supply nor additional hardware is required because the terminal element with USB interface is based on a standard USB interface.









Direct triggering of the signal tower via USB Interface



Base for tube (metal) and tube Ø 25 mm (accessories)



## KombiSIGN 70 in customerspecific coloured coatings



The Signal Towers are designed to harmonise with the colour of the customer's product design, guaranteeing a uniform appearance



The KombiSIGN Signal Towers 70 can be coated in any colour within the RAL spectrum

- Signal towers in customerspecific colours
- Meets the demands of an increasing design preference
- Simple ordering procedure
- Complete range of RAL colours available

#### **TECHNICAL SPECIFICATIONS:** i

Dimensions Terminal Elements (Ø x Height):	70 mm x 26.5 mm	
Housing Terminal Elements:	PA-GF, fibreglass, high-impact, Cap: PC	
Connection:	CAGE CLAMP <sup>®</sup> technology max. 2.5 mm <sup>2</sup> Contact protection according to VDE	
Cable entry:	Cable diameter max. 14 mm	
Number of modules possible:	Max. 5	
Minimum order quantity:	10 pieces	
Delivery time:	By arrangement	
Colour Finish:	By arrangement Matt or gloss Please state the required RAL number	

⋓ **ORDER SPECIFICATIONS TERMINAL ELEMENTS:** 

	Screw terminal
Terminal element for tube mounting,	
coated, including cap	840 780 00
Terminal element for Bracket- or	
base mounting, coated	
including cap and seal	840 785 00

Base with integrated tube, coated Ø 25 mm, 110 mm long, 960 000 24 plastic, incl. rubber seals Bracket for 1-sided mounting, coated, incl. rubber seals 960 000 22

#### **ADDITIONAL INFORMATION:**

**ACCESSORIES:** 

Please state the required RAL number and colour finish (matt or gloss) with each of your orders. Slight colour deviations are possible.

#### **TECHNICAL DIAGRAMS:**

see page 285





## Foldaway base for KombiSIGN 70



Maximum stability even with strong shocks and vibrations thanks to the locking mechanism



When transporting the machine, the signal tower can be folded away in a few simple steps



Vertical alignment of Signal Towers even on sloping surfaces

- The signal tower can be folded away while still connected
- Minimises packaging costs and optimises machine transportation
- Simple mounting and cable entry for up to Ø 14 mm
- Vertical alignment of signal towers even on sloping surfaces
- Positioning in 7.5° steps, markings for 30, 45, 60 or 90 degrees

#### **TECHNICAL SPECIFICATIONS:**

Dimensions	(Ø	хH	eight):					
Material:								
Cable diameter:								
Assembly:								
Fixing:								

Suitable for:

PA-GF
Max. 14 mm
Incl. rubber seals
Vertical, horizontal
Positioning in 7.5° steps
Tube, Ø 25 mm, all anodized aluminium,
not included in assembly (accessory)

70 mm x 117 mm

960 000 30

#### W **ORDER SPECIFICATIONS:**

Foldaway base for KombiSIGN 70

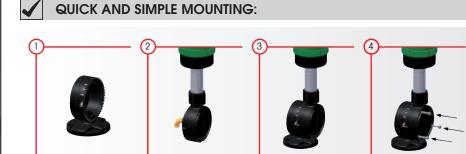
#### **ACCESSORIES:**

Cable gland M 16 x 1.5 mm

Tube Ø 25 mm, plastic 45 mm long, for direct mounting of the Terminal Element onto the Foldaway Base 960 000 31

Tube Ø 25 mm, all anodized aluminium, see page 41

960 000 04



Place the lower part of the Foldaway Base in the desired position

Attach the upper part directly onto the signal tower tube. Insert the connection cable



Place the upper and lower parts together at the desired angle

Place the upper and lower parts together at the desired angle

**TECHNICAL DIAGRAMS:** 





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