# Signal Tower KombiSIGN 70

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

#### ▶ STEP 1

Select the required optical or audible elements.

Many Kombi*SIGN* highlights are also available (for details see page 37).

#### **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

#### ▶ STEP 2

Select the appropriate mounting option for your application.

#### ▶ STEP 3

Select the correct terminal element for your mounting option.

#### **Base Mounting**



Terminal element for base mounting Order no. **840 085 00** 

#### **Tube Mounting**



Terminal element for tube mounting Order no. **840 080 00** 

#### ▶ STEP 4

Where appropriate, select a base and the desired length (only for tube mounting).



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 anodized

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** 



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



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.



The Signal Devices Site on the Internet: www.werma.com

With our new **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 1-sided mounting
Order no. **975 840 85** 



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



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



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



Bracket for base mounting with concealed cable entry Order no. 960 000 14 Bracket for tube mounting order no. 9



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



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



## The Highlights for KombiSIGN 70

#### WIN – Wireless Information Network



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

See page 43

#### Kombi*SIGN* reflect



- Simple monitoring of signal towers out of view
- Signal tower "reflection" to a central location

See page 44

#### **GSM Transmitter Element**



- Malfunction signalled by signal tower is transmitted via SMS or call to a mobile phone
- Activation without the need for programming
   No additional power supply
- No additional power supply needed

See page 45

#### **AS-Interface Element**



- LEDs indicate current status
- 31 or 62 addresses
- Available with standard or A/B technology

See page 46

#### LED Permanent Light Element ultrabright



- Up to 20 times brighter than conventional LED elements
- Maximum brightness via intelligent LED control

See page 47

#### **LED Flashing Light Element**



- Extremely long life duration up to 50,000 hrs
- Low current consumption
- Shock-proof and vibration resistant

See page 38

#### **LED EVS Element**



- Attention-grabbing flickering light
- Extremely powerful signal effect
- Random sequence of light signals prevents acclimatisation effect

See page 48

#### **Vocal Element**



- Plays customer-specific audio files in mp3 format (sounds, alarms, music or spoken text)
- Easy programming via USB interface
- Up to 60 minutes replay capacity

See page 49

#### Siren Element with selfadjusting sound output





- Sound output is automatically adjusted to the background noise level
- Warning tone can be heard without being irritatingly loud

See page 50

## Terminal Element with USB Interface



- Direct triggering of signal tower elements via USB Interface
- Easy activation

See page 51

## Customer specific coloured coatings



- Signal towers in customerspecific colours – complete range of RAL colours available
- Meets the demands of an increasing design orientation

See page 52

#### Foldaway base



- Enables signal towers to be folded down completely, even when connected
- Vertical alignment of signal towers even on sloping surfaces

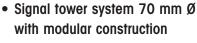
See page 53

## Signal Tower KombiSIGN 70



Base with tube (accessory)

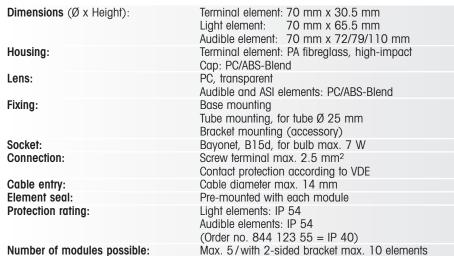
**Bracket (accessory)** 



• 360° visibility

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





Number of modules possible: Permanent light element 12 - 240 V≂

Bulb not included in assembly

24 V≂ 115 V~ 230 V~ LED Permanent light element Current consumption: < 30 mA < 20 mA < 20 mA

LED Permanent light element ultrabright 24 V ---Up to 50,000 hrs Life duration: Current consumption: Max. 190 mA Up to 20 times brighter than conventional LED beacons.



24 V ---LED Flashing light element Life duration: 50,000 hrs

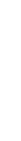
Current consumption: < 30 mA (red/yellow) < 25 mA (green/clear/blue) c. 1 Hz (Double Flash) Flash frequency:

LED EVS\* element

Current consumption: 350 mA (red/yellow) 250 mA (green/clear/blue)

LED Blinking light element 24 V ≂ 115 V~ 230 V~ Current consumption: 25 mA 25 mA 25 mA Blink frequency: c. 1 Hz

LED Rotating light element 24 V≂ Current consumption: 70 mA Rotation frequency: c. 120 r.p.m.



Tube mounting (accessory)





\* EVS = Enhanced Visibility System



























(LED) Permanent/ Flashing light element



Permanent light, clear with info



LED EVS element



LED element

	ORDER SPECIFIC	ATIONS OPT	ICAL ELEMEN	rs:	
	Permanent light element red green yellow clear blue Bulb not included in assem	bly. Accessories	12-240 V = 840 100 00 840 200 00 840 300 00 840 500 00 see page 42.	(IP	54
	LED Permanent light eleme red green yellow clear blue	ent	24 V = 843 100 55 843 200 55 843 300 55 843 500 55	115 V ~ 843 100 67 843 200 67 843 400 67 843 500 67	230 V ~ 843 100 68 843 200 68 843 400 68 843 500 68
1	LED Permanent light eleme red green yellow clear blue	ent ultrabright	24 V= 843 180 55 843 280 55 843 380 55 843 480 55 843 580 55		
	red green yellow clear blue	24 V = (ASI) 842 110 55 842 210 55 842 310 55 842 410 55 842 510 55	24 V= 842 100 55 842 200 55 842 300 55 842 400 55 842 500 55	115 V ~ 842 100 67 842 200 67 842 300 67 842 400 67 842 500 67	230 V ~ 842 100 68 842 200 68 842 300 68 842 400 68 842 500 68
	LED Flashing light element red green yellow clear blue		24 V= 843 120 55 843 220 55 843 320 55 843 420 55 843 520 55		
	LED EVS element red green yellow clear blue		24 V= 843 140 55 843 240 55 843 340 55 843 440 55 843 540 55		
	LED Blinking light element red green yellow clear blue		24 V = 843 110 55 843 210 55 843 310 55 843 410 55 843 510 55	115 V~ 843 110 67 843 210 67 843 310 67 843 410 67 843 510 67	230 V ~ 843 110 68 843 210 68 843 310 68 843 410 68 843 510 68
	LED Rotating light element red green yellow clear blue		24 V = 843 130 55 843 230 55 843 330 55 843 430 55 843 530 55	Improved light effect	

843 530 55



clear blue

#### **TECHNICAL DIAGRAMS:**

see page 285 onwards

Further voltages on request.

## Signal Tower KombiSIGN 70



Audible element 844 123 55

Terminal element with cap



Vocal element



**GSM** transmitter element

## **ORDER SPECIFICATIONS AUDIBLE ELEMENTS:**

**Buzzer element** 24 V≂ 115 V~ 230 V~ 85 dB, 25 mA, IP 54, 844 118 55 844 118 67 844 118 68

Continuous or pulse tone

Siren element 24 V == 105 dB, 150 mA, IP 40 844 123 55 Continuous tone alternating no UL / CSA approval

Multi-functional Siren  $24 V \approx /80 \text{ mA}$ 115 V~/40 mA 230 V~/40 mA 100 dB, IP 54, 844 126 55 844 126 67 844 126 68

8 different tones, adjustable sound output

Multi-functional Siren, 24 V --can be triggered externally 844 126 95

100 dB, 80 mA, IP 65, 7 diff. tones can be triggered externally, adjustable sound output, number of tones depending on the number of optical elements.

Siren element with 24 V --self-adjusting sound output 844 810 55

Technical specifications see page 51. Available: 1st Quarter 2011.

#### **ORDER SPECIFICATIONS TERMINAL ELEMENTS:**

Terminal element for tube mounting incl. cap 840 080 00 Terminal element for bracket or base mounting 840 085 00 incl. cap und rubber seal Terminal element with USB Interface (for tube mounting) 840 580 00 Technical specifications see page 51.

#### **ORDER SPECIFICATIONS KOMBISIGN-HIGHLIGHTS:**

WIN system for Kombi <i>SIGN</i> 70	860 840 01
Technical specifications see page 43.	

WIN slave for Kombi*SIGN* 70 860 840 02 Technical specifications see page 43.

Kombi SIGN 70 reflect 861 840 01 Technical specifications see page 44.

**GSM Transmitter Element** 24 V == for Kombi SIGN 70 840 700 55 Technical specifications see page 45.

**Vocal Element** 24 V ==

for KombiSIGN 70 844 840 55 Technical specifications see page 49.

AS-Interface Element Standard Slave A/B-Slave for KombiSIGN 70 24 V == 24 V == 840 830 55 840 810 55

Technical specifications see page 46.



# Accessories for Signal Tower KombiSIGN 70



	1 Than T
ORDER SPECIFICATIONS ACCESSORIES:	
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
400 mm long	975 840 40
600 mm long	975 840 60
800 mm long	975 840 80
1000 mm long	975 840 03
Foldaway Base incl. rubber seals, suitable for tube, $\emptyset$ 25 mm, all anodized aluminium (Technical specifications s	<b>960 000 30</b> ee page 53)
Tube Ø 25 mm, plastic for mounting the Terminal Element directly on the Foldaway	<b>960 000 31</b> Base
Base for tube mounting Ø 25 mm, plastic, incl. rubber seal	975 840 90
Base for tube mounting $\emptyset$ 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 11









Bulb BA15d, total length max. 42 mm (for permanent light 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 840)

(101 pointailoni light o	10)		
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 for one to five modules
- Simple mounting onto signal tower tube
- Ample space for written information
- Simply break off unwanted segments

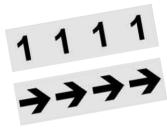
Dimensions of indication board (W x H): 153 x 345 mm Surface area per section (W x H): c. 140 x 50 mm

Material: **PMMA** 

Indication board (5 sections) Assembly: incl. mounting material

Fixing only possible on 25 mm diameter tube Mounting:

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



## WIN\* for KombiSIGN 70



Patent pending



"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

#### **TECHNICAL SPECIFICATIONS:**

WIN slave **Dimensions** (Ø x Height): 70 mm x 65.5 mm PC, black Housing:

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: 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.)

Up to 300 m (unobstructed line of sight) Transmission range:

Every slave simultaneously functions as a "repeater",

enabling the transmission range to be significantly increased.

#### **ORDER SPECIFICATIONS:**

WIN system for Kombi SIGN 70 860 840 01

Assembly: WIN master, 3 WIN slaves Kombi SIGN 70 (pre-configured), Software

WIN slave for Kombi SIGN 70 860 840 02

To expand WIN system.

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

#### **ADDITIONAL INFORMATION:**

\* WIN = Wireless Information Network

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

## **TECHNICAL DIAGRAMS:**











## 861

## Kombi*SIGN* reflect for Kombi*SIGN* 70



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

- Simple monitoring of signal towers Kombi SIGN reflect is integrated out of view
- Signal tower "reflection" to a central location
- Shortening of reaction times and reduction of costs
- into existing WERMA signal towers
- No additional wiring costs
- Simple commissioning due to pre-configured modules

#### **TECHNICAL SPECIFICATIONS:**

Slave

Dimensions (Ø x Height): 70 mm x 65.5 mm Housing: PC, black Connection: **Bayonet** Operating voltage: 24 V≂ **Current consumption:** 40 mA

<u>Master</u>

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

868 MHz (Kombi SIGN reflect conforms to ISM frequency:

the EU's EN 300220 harmonised standard and can thus be used in all EU member countries. Further countries upon request.)

Up to 300 m (unobstructed line of sight) Transmission range:



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

#### **ORDER SPECIFICATIONS:**

Kombi SIGN 70 reflect 861 840 01



#### **ADDITIONAL INFORMATION:**

#### Signal tower "reflection"

WERMA Signaltechnik provides a simple solution for the remote wireless monitoring of machinery. The new "Kombi SIGN reflect" kit can be integrated into existing signal towers which are already installed on your machines. Kombi SIGN 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 Kombi SIGN 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.



#### **TECHNICAL DIAGRAMS:**

see page 289

















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

machine

#### 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
- 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): 70 mm x 65.5 mm (without antenna)

PC Housing: 50 mA **Current consumption:** Max. current draw (momentary): 450 mA

**GSM frequency:** 850, 900, 1800/1900 MHz

Plug-in slot for SIM card: Integrated (SIM card is not included in assembly)

Antenna connection: FME plug connector

(bracket antenna included)



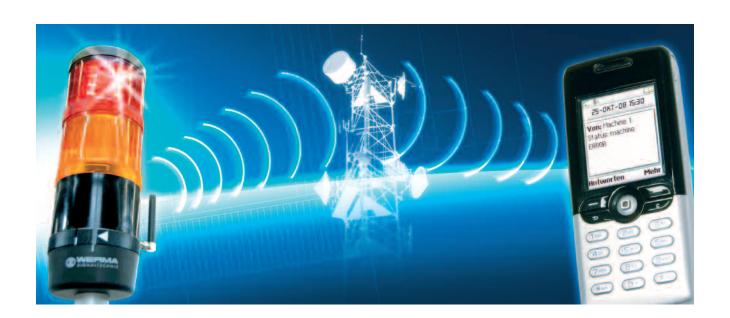
Also suitable for US frequencies

#### **ORDER SPECIFICATIONS:**

24 V == **GSM Transmitter Element** 840 700 55



#### **TECHNICAL DIAGRAMS:**

















# AS-Interface Element for Kombi*SIGN* 70



Cable not included in assembly



LEDs displays the current status

- LEDs indicate current status
- 31 or 62 addresses
- Available with standard or A/B technology
- Voltage supply switchable from internal bus supply to additional external voltage supply
- With addressing socket

#### **TECHNICAL SPECIFICATIONS:**

	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
Additional external voltage: 24 V +/- 10% ==

Current carrying cap. Σ Imax:With internal add. voltageWith external add. voltageCurrent consumption max:200 mA200 mA per signal elementCurrent consumption max:250 mA75 mAVoltage at signal element:18 V - 24 V24 V +/- 10%Short circuit/overload protection:IntegratedPre-fuse M 1.6 A

ORDER SPECIFICATIONS:

AS-Interface Element Standard Slave A/B-Slave **840 830 55 840 810 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).

#### **TECHNICAL DIAGRAMS:**

see page 285

Class 2



















# LED Permanent Light Element ultrabright for Kombi*SIGN* 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 vibrationresistant



#### **TECHNICAL SPECIFICATIONS:**

**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



Maximum brightness via intelligent LED control

#### 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 energy-saving 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









## 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



#### **TECHNICAL SPECIFICATIONS:**

Dimensions (Ø x Height):70 mm x 65.5 mmLens:PC, transparentSeal: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



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

#### 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





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

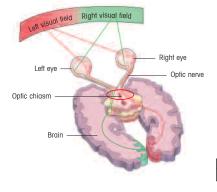
#### EVS – Attention-grabbing light effect on neurobiological basis

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.



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

#### TECHNICAL DIAGRAMS:











mp3 compatible

## Vocal Element for KombiSIGN 70



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

15, depending on the number of signal elements



**Dimensions** (Ø x Height): 70 mm x 111 mm

Housing: PC **Current consumption:** 400 mA

Integrated memory: Approx. 60 min. of replay capacity

Number of sequences recordable:

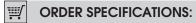
Number of additionally

signal elements:

Via USB connection cable from PC Programming:

Sound output: Adjustable, max. 85 dB

Assembly includes USB connection cable.



Vocal element 24 V ==

844 840 55

**ACCESSORIES:** 

960 645 01 Headset with microphone



#### **TECHNICAL DIAGRAMS:**



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)



















## 844

# Siren Element with self-adjusting sound output for KombiSIGN 70



approved

- 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

Loud enough

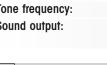
yet not disturbing!

## **TECHNICAL SPECIFICATIONS:**

70 mm x 111 mm **Dimensions** (Ø x Height): Housing: PC

Tone type: Pulse tone Tone frequency: 2.5 KHz

Sound output: 80 dB - max. 100 dB



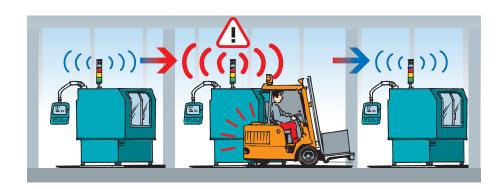


Voltage: Current consumption: < 150 mA 844 810 55



#### **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:**























## Terminal Element with USB Interface for KombiSIGN 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



#### **TECHNICAL SPECIFICATIONS:**

Dimensions (Ø x Height): 70 mm x 30.5 mm Material: PA-GF, shock resistant Fixing: Tube mounting

Connection: **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

**Current carrying capacity** 

Imax:

100 mA



Direct triggering of the signal tower via USB Interface



#### **ORDER SPECIFICATIONS:**

Terminal element USB 24 V == 840 580 00



#### **ACCESSORIES:**

Base with integrierted tube 975 840 10 Tube mounting with base for tube (metal) 975 840 91

Tube Ø 25 mm

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

ADDITIONAL INFORMATION:

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.



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



#### **TECHNICAL DIAGRAMS:**













# Kombi*SIGN* 70 in customerspecific coloured coatings



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

## **1** TECHNICAL SPECIFICATIONS:

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® technology max. 2.5 mm²
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:
 Matt or gloss



#### **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
including cap and seal	840 /83 00



#### **ACCESSORIES:**

Base with integrated tube, coated
Ø 25 mm, 110 mm long,
plastic, incl. rubber seals

Bracket for 1-sided mounting,
coated, incl. rubber seals

960 000 22



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

#### **ADDITIONAL INFORMATION:**

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



Please state the required RAL number



## Foldaway base for KombiSIGN 70



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

- 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



Dimensions (Ø x Height): 70 mm x 117 mm

Material: PA-GF
Cable diameter: Max. 14 mm

Assembly: Incl. rubber seals

Fixing: Vertical, horizontal
Positioning in 7.5° steps

Suitable for: Tube, Ø 25 mm, all anodized aluminium,
not included in assembly (accessory)



Foldaway base for Kombi SIGN 70 960 000 30



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

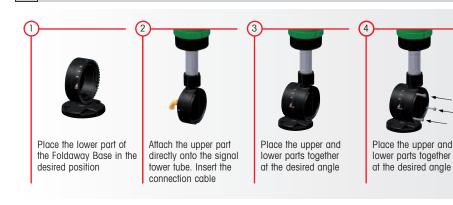
Cable gland M 16 x 1.5 mm 960 000 04



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



#### QUICK AND SIMPLE MOUNTING:





Vertical alignment of Signal Towers even on sloping surfaces



## TECHNICAL DIAGRAMS:







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