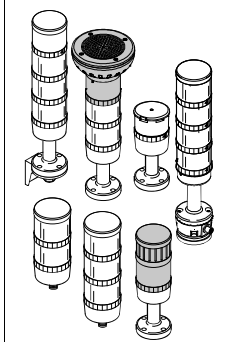
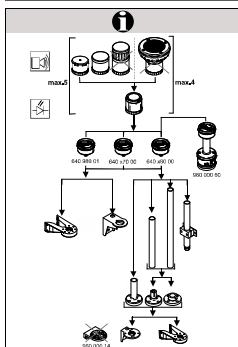
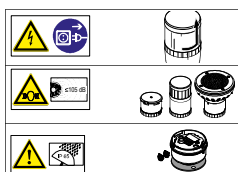


M12 Anschlusselement
M12 Terminal Element



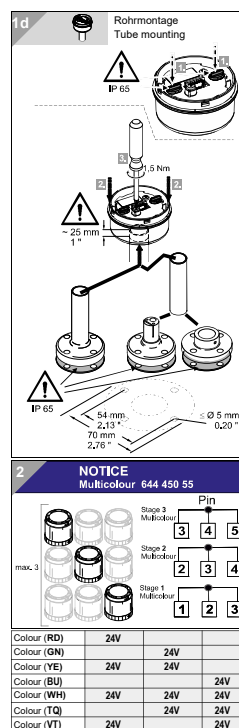
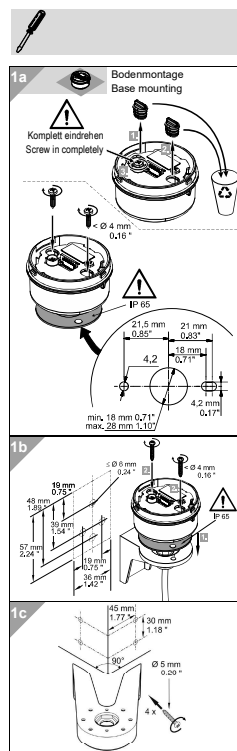
WERMA Signaltechnik GmbH + Co. KG
D-78604 Rietheim-Weilheim
Telefon +49 (0)7424 / 9557-0
Telefax +49 (0)7424 / 9557-44
info@werma.com
www.werma.com

	DANGER
	Ⓔ Anschluss ausschließlich durch ausgebildete Elektro-Fachkräfte.
	Ⓔ Electrical connection is to be made by trained electrical specialists only.
	Ⓔ Le branchement doit uniquement être effectué par des électriciens.
	Ⓔ Il collegamento deve essere eseguito solo da elettricisti specializzati.
	Ⓔ La conexión sólo debe ser realizada por electricistas debidamente formados.
	Ⓔ A ligação deve ser feita exclusivamente por profissional electricista especializado.
	Ⓔ Die aansluiting mag enkel gebeuren door erkende vakmensen.
	Ⓔ Připojení smí povolát pouze kvalifikovaný personál.
	Ⓔ Podłączenie wyłącznie przez specjalistów-elektryków.
	Ⓔ Lättänningen kuuluu aivan asiantuntijien sähköalan ammattilaisten koulutettujen henkilöstön tehtäväksi.
	Ⓔ Подключение проводится только специалистами-электриками.
	Ⓔ Bağlantı sadece eğitimli elektrik teknisyenleri tarafından yapılmalıdır.
	Ⓔ 布线必须由专业电工执行
	644 x 40 55
	DANGER EVS
	Ⓔ Bei Epilepsie ungeeignet!
	Ⓔ Unsuitable for epilepsy sufferers.
	Ⓔ Non convient pas aux personnes souffrant d'épilepsie.
	Ⓔ Inadatto per epilettici.
	Ⓔ Não aconselha-se a pessoas que sofrem de Epilepsia.
	Ⓔ Niet geschikt voor epileptici.
	Ⓔ Nevhodí pro epileptiky.
	Ⓔ Nie stosować przy chorzeniu padaczką.
	Ⓔ Ei sovellet epileptikoille.
	Ⓔ Не подходит для страдающих эпилепсией.
	Ⓔ Epilepsi hastaları için kullanılmaması uygundur.
	Ⓔ 不适用于癫痫病患者



Terminal element	640 870 00 640 970 00 640 880 00 640 980 00 640 870 01 640 980 01 960 000 60	10-31,6 V = +/-0%	≤ 2 A
TwinLIGHT	647 x10 75 647 x30 75	24 V ≈ 24 V ≈	< 80 mA < 80 mA
TwinFLASH	647 x20 55 647 x40 55	24 V ≈ 24 V ≈	< 80 mA < 80 mA
Multicolour LED	644 450 55	24 V ≈	< 120 mA
Permanent	644 x00 75	24 V ≈	< 35 mA

LED Perm- nent	RD GN YE	644 100 54 644 200 54 644 300 54 644 110 75	12 V ≈ 12 V ≈ 12 V ≈ 24 V ≈	< 50 mA < 50 mA < 50 mA < 35 mA
Blinking LED Flash Rotating		644 x20 55 644 x30 75	24 V ≈ 24 V ≈	< 35 mA < 40 mA
Ultrabright LED-EVS		644 x40 55	24 V ≈	< 190 mA
Xenon Flash (2Ws)		643 x00 54 643 x00 55 643 x10 55 956 x00 75	12 V ≈ 24 V ≈ 24 V ≈ 24 V ≈	< 350 mA 195 mA 125 mA 125 mA
 BA 15 d		955 840 34 955 840 35	12 V 24 V	5W 5W
 BA 15 d, ≤ 42 mm		645 870 75	24 V ≈	< 40mA
 95 - 105dB		645 800 75	24 V ≈	< 25 mA
 ≤ 85 dB		645 x90 75	24 V ≈	< 30 mA
 ≤ 102 dB		645 850 55	24 V ≈	< 80 mA
 ≤ 100 dB		645 830 55	24 V ≈	< 100 mA
 ≤ 105 dB				



3a

647 x10 75
647 x30 75

dB-Linking
Permanent

TwinLIGHT

3b

647 x20 55
647 x40 55

EVS
Flash

TwinFLASH

4

WARNING

NOTICE

dB = dB(A) (SPL) 1m

4a

645 870 xx
645 102 75

3kHz

2.3-3kHz

95-105dB

95 dB
105 dB

4b

645 800 xx

Permanent

Pulse

<85dB

4c

645 810 55

NOTICE

self-adjusting
sound output

80-100 dB

Pulse 1kHz

4d

645 x90 xx

SNP 1
max.dB(A)
ON
max.dB(A)
OFF
-10dB(A)

max.dB(A)

2.8kHz 102

0.2kHz 96

2.8kHz 96

0.9 kHz 92

2.8kHz 102

0.9 kHz 96

2.8 kHz 102

1kHz 102

3.0kHz 102

4e

645 850 55

Tone max.
1 1.5 kHz 80 dB(A)

2 3.4 kHz 100 dB(A)

3 1.5 kHz 82 dB(A)

4 3.4 kHz 100 dB(A)

5 1.5 kHz 82 dB(A)

6 3.4 kHz 98 dB(A)

7 3.4 kHz 98 dB(A)

Pin terminal element

Tone	1	2	3	4	5
1	+24V	+24V	NC		
2	+24V	+24V	+24V		
3	+24V	NC	NC		
4	+24V	NC	+24V		
5	NC	+24V	NC		
6	NC	+24V	+24V		
7	NC	NC	+24V		
1	+24V	+24V	NC		
2	+24V	+24V	+24V		
3	+24V	NC	+24V		
4	NC	+24V	NC		
5	NC	+24V	+24V		
6	NC	+24V	+24V		
7	NC	NC	+24V		
1	+24V	+24V	NC		
2	+24V	+24V	+24V		
3	+24V	NC	NC		
4	+24V	NC	+24V		
5	NC	+24V	NC		
6	NC	+24V	+24V		
7	NC	NC	+24V		
1			+24V	+24V	
3			+24V	NC	
5			NC	+24V	
3					+24V

5a

8-pin
A-coded

A

B

M12 Pin

640 880 00
640 980 00

640 980 01

	1	2	3	4	5	6	7	8
1	1	1						
2	2	2						
3	3	3						
4	4	4						
5	5	5						
6	/	/						
7	/	/						
8	/	/						COM

5b

5-pin
A-coded

C

D

E

M12 Pin

640 x70 00 / 960 000 60

	1	2	3	4	5
1	1	L+	AS+		
2	3	2L+	Uext+		
3	COM	L-	AS+		
4	4	CO	Uext+		
5	2	/	/		

C

D

M12 Pin

640 870 01

	1	2	3	4	5
1	/				
2	2				
3	COM				
4	1				
5	/				

IO-Link

IODD

www.werma.com

download

6

640 x80 0x, 640 x70 0x

960 000 60

0.6 - 0.8 Nm

0.6 - 0.8 Nm

7

only 641

150000000686_AB
310.640.016

WERMA

© D

310_640_016-100000000686_AB.fm 2.2.20 www.werma.de