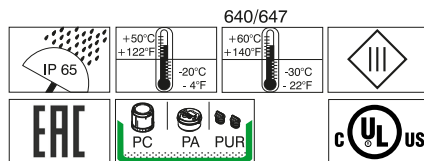
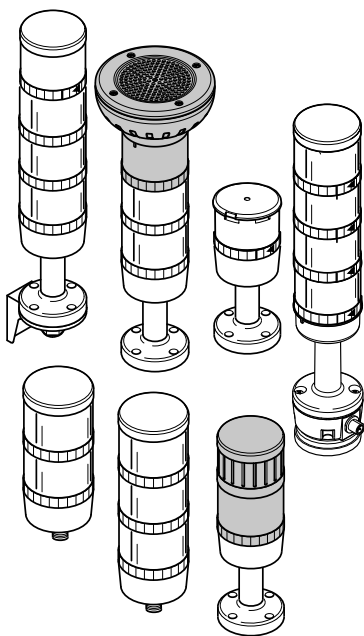


WERMA 640 x70 00
640 x80 00
640 980 01
960 000 60
640 870 01

EN 60947-5-1



M12 Anschlusselement
M12 Terminal Element



© D

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DANGER

ANSCHLUSSELEMENT

Ⓔ 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 professionnels.

Ⓣ 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 elétrico especializado.

ⓃⒻ De aansluiting mag **enkel** gebeuren door erkende vakmensen.

ⒸⓏ Připojení smí **provádět** pouze kvalifikovaný personál.

ⒻⒻ Podłączenie **wyłącznie** przez specjalistów-elektryków.

ⒻⒻ Liittäminen kuuluu **ainoastaan** koulutettujen sähköalan ammattilaisten tehtäviin.

ⒻⒺ Подключение проводится только специалистом-электриком.

ⒻⓇ Bağlantı **sadece** eğitimli elektrik teknisyenleri tarafından yapılmalıdır.

ⒸⓃ 布线需由专业电工执行

DANGER 644 x40 55
EVS

Ⓔ Bei Epilepsie ungeeignet!

ⒼⒷ Unsuitable for epilepsy sufferers.

ⒻⓇ Ne convient pas aux personnes souffrant d'épilepsie.

Ⓣ Inadatto per epilettici.

ⒺⓈ Inadecuado para epiléticos.

ⒻⓉ Não aconselavel a pessoas que sofrem de Epilepsia.

ⓃⒻ Niet geschikt voor epileptici.

ⒸⓏ Nevhodné pro epileptiky.

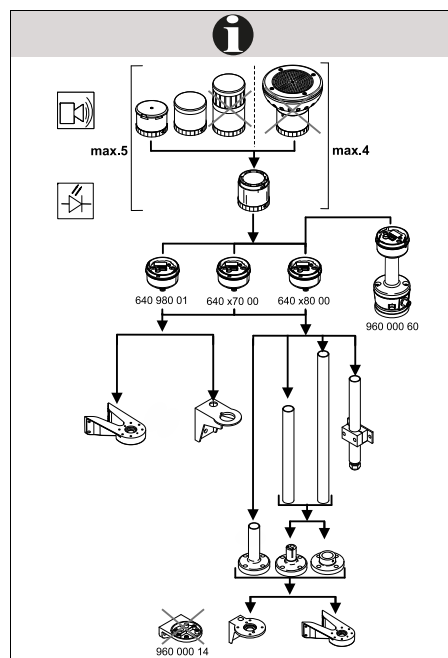
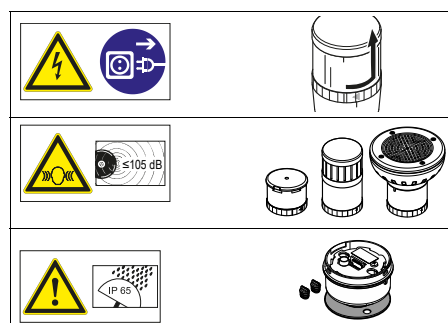
ⒻⒻ Nie stosować przy zchorzeniu padaczki.

ⒻⒻ Ei sovellu epileptikoille.

ⒻⒺ Не подходит для страдающих эпилепсией.

ⒻⓇ Epilepsi hastalığı olanların kullanmaması önerilir.

ⒸⓃ 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 | 647 x20 55 | 647 x40 55 | 647 x10 75 | 647 x30 75 | 647 x20 55 | 24 V≈ | < 80 mA | |
| TwinFLASH | 647 x10 75 | 647 x30 75 | 647 x20 55 | 647 x40 55 | 647 x10 75 | 647 x30 75 | 647 x20 55 | 24 V≈ | < 80 mA | |
| Multicolour | 644 450 55 | 644 x00 75 | | | 644 450 55 | 644 x00 75 | | 24 V= | < 120 mA | |
| LED | 644 450 55 | 644 x00 75 | | | 644 450 55 | 644 x00 75 | | 24 V≈ | < 35 mA | |
| Permanent | | | | | | | | | | |

| | | | |
|-------------------|----------------|-------|----------|
| LED RD | 644 100 54 | 12 V= | < 50 mA |
| Perm- anent | GN 644 200 54 | 12 V= | < 50 mA |
| | YE 644 300 54 | 12 V= | < 50 mA |
| Blinking | LED 644 x10 75 | 24 V≈ | < 30 mA |
| LED Flash | 644 x20 55 | 24 V= | < 35 mA |
| LED Rotating | 644 x30 75 | 24 V≈ | < 40 mA |
| LED Ultrabright | 644 x80 55 | 24 V= | < 190 mA |
| LED-EVS | 644 x40 55 | 24 V= | < 350 mA |
| Xenon Flash (2Ws) | 643 x00 54 | 12 V= | 195 mA |
| | 643 x00 55 | 24 V= | 125 mA |
| | 643 x10 55 | 24 V= | < 125 mA |
| BA 15 d | 956 x00 75 | 24 V≈ | < 45 mA |
| BA 15 d, < 42 mm | 955 840 34 | 12 V | 5W |
| | 955 840 35 | 24 V | 5W |
| 95 - 105dB | 645 870 75 | 24 V≈ | < 40mA |
| < 85 dB | 645 800 75 | 24 V≈ | < 25 mA |
| < 102 dB | 645 x90 75 | 24 V≈ | < 30 mA |
| < 100 dB | 645 850 55 | 24 V= | < 80 mA |
| < 105 dB | 645 830 55 | 24 V= | < 100 mA |

1a Bodenmontage Base mounting

Komplett eindrehen
Screw in completely

IP 65

21,5 mm 0.85" 21 mm 0.83" 18 mm 0.71" 4,2 mm 0.17" min. 18 mm 0.71" max. 28 mm 1.10"

1b

IP 65

48 mm 1.89" 39 mm 1.54" 57 mm 2.24" 19 mm 0.75" 19 mm 0.75" 36 mm 1.42" ≤ 6 mm 0.24" < 4 mm 0.16"

1c

45 mm 1.77" 30 mm 1.18" 90° Ø 5 mm 0.20" 4 x

1d Rohrmontage Tube mounting

IP 65

1,5 Nm

~ 25 mm 1"

IP 65

54 mm 2.13" 70 mm 2.76" ≤ Ø 5 mm 0.20"

2 NOTICE Multicolour 644 450 55

max. 3

Pin

Stage 3 Multicolour 3 4 5

Stage 2 Multicolour 2 3 4

Stage 1 Multicolour 1 2 3

| Colour (RD) | 24V | | |
|-------------|-----|-----|-----|
| Colour (GN) | | 24V | |
| Colour (YE) | 24V | 24V | |
| Colour (BU) | | | 24V |
| Colour (WH) | 24V | 24V | 24V |
| Colour (TQ) | | 24V | 24V |
| Colour (VT) | 24V | | 24V |

3a 647 x10 75
647 x30 75 * = Default setting

TwinLIGHT

Blinking Permanent

3b 647 x20 55
647 x40 55 * = Default setting

TwinFLASH

EVS Flash

4d 645 x90 xx * = Default setting

<102dB

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

| DIP | 2 | 3 | 4 | max. dB(A) |
|-----|-------------------------------------|-------------------------------------|-------------------------------------|-------------------|
| OFF | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 2.8kHz 102 |
| ON | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 0.9kHz 96 |
| OFF | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 2.8kHz 96 |
| ON | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 0.9 kHz 92 |
| OFF | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 2.8kHz 102 |
| ON | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 0.9 kHz 96 |
| OFF | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 2.8 kHz 102 |
| ON | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 1kHz - 3.6kHz 102 |

4e 645 850 55

<100dB

4 5
3 2 1

Tone max.
1 1.6 kHz 80 dB(A)
2 3.4 kHz 100 dB(A)
3 1.6 kHz 82 dB(A)
4 3.4 kHz 100 dB(A)
5 1.6 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 | 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 | B Stufe / Tier | |
|---------|--------------------------|------------|
| | 640 880 00 640 980 00 | 640 980 01 |
| 1 | 1 | 1 |
| 2 | 2 | 2 |
| 3 | 3 | 3 |
| 4 | 4 | 4 |
| 5 | 5 | 5 |
| 6 | / | / |
| 7 | COM | / |
| 8 | / | COM |

5b

5-pin A-coded

C **D** **E**

| M12 Pin | 640 x70 00 / 960 000 60 | | |
|---------|-------------------------|-------------------------|--------|
| | Stufe / Tier | IO-Link | AS-i |
| 1 | 1 | L+ | AS-i + |
| 2 | 3 | 2 L+ (+24V optional) | Uext - |
| 3 | COM | L- | AS-i - |
| 4 | 4 | C/Q | Uext + |
| 5 | 2 | / | / |

| M12 Pin | 640 870 01 | |
|---------|--------------|--|
| | Stufe / Tier | |
| 1 | / | |
| 2 | 2 | |
| 3 | COM | |
| 4 | 1 | |
| 5 | / | |

IO-Link

IODD

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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

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