



SLB440-ER-3-ST-H

- Compact design With integral evaluation
- Height range 75 m (Reserve up to 90 m)
- Safe OSSD outputs to PLe
- Automatic start or restart interlock
- Sturdy metal enclosure with M12 connector or cable
- Version with heater for outdoor applications down to -30°C
- Set-up tool and diagnostic indication

Data

Ordering data

| | |
|-------------------------------|------------------|
| Product type description | SLB440-ER-3-ST-H |
| Article number (order number) | 103015485 |
| EAN (European Article Number) | 4030661503660 |
| eCl@ss number, version 12.0 | 27-27-27-01 |
| eCl@ss number, version 11.0 | 27-27-27-01 |
| eCl@ss number, version 9.0 | 27-27-27-01 |
| ETIM number, version 7.0 | EC001831 |
| ETIM number, version 6.0 | EC001831 |

Approvals - Standards

| | |
|--------------|-------|
| Certificates | cULus |
|--------------|-------|

General data

| | |
|-----------|----------------------------------|
| Standards | EN IEC 61496-2 EN IEC 61496-1 |
|-----------|----------------------------------|

| | |
|------------------------|-----------|
| Housing material | Aluminium |
| Reaction time, maximum | 22 ms |
| Reaction time, minimum | 7 ms |
| Gross weight | 230 g |

General data - Features

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|-------------------------------------|-----|
| Restart interlock (manual reset) | Yes |
| Beam coding available | Yes |
| Integral system diagnostics, status | Yes |
| Integral system diagnostics | Yes |
| Number of fail-safe digital outputs | 2 |
| Number of beams | 1 |

Safety classification

| | |
|--|--------------------------------|
| Standards | EN ISO 13849-1 EN IEC 62061 |
| Performance Level, up to | e |
| Category | 4 |
| PFH value | 1.50×10^{-8} /h |
| Safety Integrity Level (SIL), suitable for applications in | 3 |
| Mission time | 20 Year(s) |
| Safety type in accordance with IEC 61496-1 | 4 |

Mechanical data

| | |
|--|--------|
| Detection ability for test bodies at $v = 1.6$ m/s | 100 mm |
| Range, protection field, minimum | 0.3 m |
| Range, protection field, maximum | 75 m |
| Wave length of the laserdiode | 880 nm |

Mechanical data - Connection technique

| | |
|----------------------------------|----------------------------|
| Termination | Connector M12 |
| Terminal connector, Recipient | Connector plug M12, 5-pole |
| Terminal, Connector, Transmitter | Connector plug M12, 4-pole |

Mechanical data - Dimensions

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|--------|---------|
| Length | 33 mm |
| Width | 27.8 mm |
| Height | 131 mm |

Ambient conditions

| | |
|-----------------------------------|----------------|
| Degree of protection | IP67 |
| Ambient temperature | -30 ... +50 °C |
| Storage and transport temperature | -30 ... +70 °C |
| Protection class | III |

Electrical data

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|--|-------|
| Switching voltage OSSD, HIGH signal | 24 V |
| Electrical power consumption of the receiver, maximum | 5 W |
| Electrical power consumption of the transmitter, maximum | 5 W |
| Length of cable, maximum | 100 m |

Electrical data - Safety digital outputs

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|---|--------|
| Output current, (fail-safe output), maximum | 0.2 A |
| Design of control elements | p-type |

Accessory

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|-------------------------------|-----------------------------|
| Recommended safety switchgear | PROTECT PSC1 SRB-E-204ST |
|-------------------------------|-----------------------------|

Ordering code

Product type description:
SLB440-ER-(1)-(2)-(3)-(4)

| | |
|------------|----------------------------|
| (1) | |
| 1 | Beam coding 1 |
| 2 | Beam coding 2 |
| 3 | Beam coding 3 |
| 4 | Beam coding 4 |
| (2) | |
| ST | Termination male connector |
| LST | Cable with connector |
| (3) | |
| H | Alternative range |
| (4) | |
| EH | Electric heater |

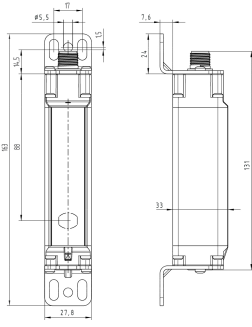
Pictures

Product picture (catalogue individual photo)



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| 335.5 kB | .jpg | 352.778 x 284.339 mm - 1000 x 806 px - 72 dpi
| 23.4 kB | .png | 74.083 x 59.619 mm - 210 x 169 px - 72 dpi
| 40.8 kB | .jpg | 123.472 x 99.483 mm - 350 x 282 px - 72 dpi

Dimensional drawing basic component



ID: kslb4g06

| 4.9 kB | .png | 74.083 x 93.133 mm - 210 x 264 px - 72 dpi

| 140.6 kB | .jpg | 352.425 x 443.442 mm - 999 x 1257 px - 72 dpi

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The details and data referred to have been carefully checked. Images may diverge from original. Further technical data can be found in the manual. Technical amendments and errors possible.

Generated on: 31/08/2024, 3:42 pm