

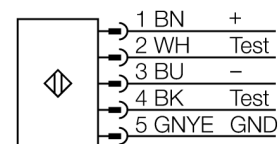
**light screen for machine safety applications**  
**emitter/receiver pair**  
**SLSP30-1050Q85**



- Personnel safety Cat 4, PL e acc. to EN ISO 13849-1:2008
- Type 4 according to IEC 61496-1,-2
- SIL 3 to IEC 61508
- Emitter with test function, male M12 x 1, 5-pin
- Receiver with male M12 x 1, 8-pin
- Blanking function
- Protection class IP65
- Adjustment via DIP switch
- Operating voltage 24 VDC +-15%
- Resolution 30 mm
- Scan field 1050 mm
- All devices incl. 2 EZA-MBK-11 mounting brackets; 900 mm devices and longer additionally incl. 1 EZA-MBK-12

|                                |                        |
|--------------------------------|------------------------|
| <b>Type code</b>               | SLSP30-1050Q85         |
| Ident no.                      | 3071266                |
| <b>Operating mode</b>          | light screen           |
| Light type                     | IR                     |
| Wavelength                     | 950 nm                 |
| Optical resolution             | 30 mm                  |
| Range                          | 100...18000 mm         |
| Detection zone height          | 1050 mm                |
| Ambient temperature            | 0...+50 °C             |
| <b>Operating voltage</b>       | 20...28VDC             |
| Residual ripple                | < 10 % U <sub>s</sub>  |
| No-load current I <sub>0</sub> | ≤ 275 mA               |
| Short-circuit protection       | yes                    |
| Reverse polarity protection    | yes                    |
| Output function                | 2x NC, 2 x PNP         |
| Current output                 | 0...500mA              |
| Response time                  | < 21 ms                |
| <b>Design</b>                  | rectangular, EZ-Screen |
| Dimensions                     | 45 x 36 x 1120 mm      |
| Housing material               | metal, AL, yellow      |
| Lens                           | plastic, acrylic       |
| Connection                     | male, M12 x 1          |
| Protection class               | IP65                   |
| <b>Power-on indication</b>     | LED green              |
| Switching state                | 2-color LED red        |

**Wiring diagram**



**Functional principle**

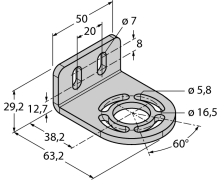
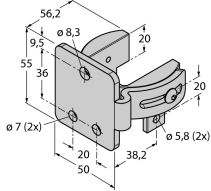
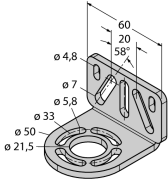
The high-resolution safety light screen for personnel protection consists of an emitter and a receiver. The system is optically synchronized, making the wiring between emitter and receiver redundant. The receiver's safety switching outputs are directly connected to a load relay and trigger an immediate stop of the dangerous machine cycle. Personnel safety degree type 4 acc. to IEC 61496 is fulfilled through 2 channel monitoring of the switching device and the multiple-redundant construction with mutual processor control.

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**Accessories**

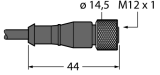
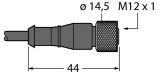
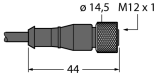
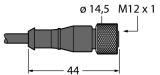
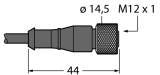
| Type code  | Ident no. | Description   | Dimension drawing   |
|------------|-----------|---|---|
| EZA-MBK-11 | 3071470   | Mounting bracket, steel, black-finished, for EZ-ARRAY and EZ-SCREEN standard and cascade 14 & 30 mm |    |
| EZA-MBK-12 | 3071756   | Mounting bracket, steel, black-finished, for EZ-ARRAY and EZ-SCREEN standard and cascade 14 & 30 mm |    |
| EZA-MBK-20 | 3072587   | Mounting bracket, steel, black-finished, for EZ-ARRAY and EZ-SCREEN standard 14 & 30 mm             |  |

**Wiring accessories**

| Type code | Ident no. | Description  | Dimension drawing   |
|-----------|-----------|--|---|
| QDE-815D  | 3070883   | Connection cable, PVC, yellow, length: 4.57 m, female M12 x 1, 8-pin |  |
| QDE-825D  | 3070884   | Connection cable, PVC, yellow, length: 7.62 m, female M12 x 1, 8-pin |  |

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**Wiring accessories**

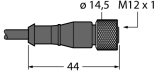
| Type code | Ident no. | Description   | Dimension drawing   |
|-----------|-----------|---|---|
| QDE-850D  | 3070885   | Connection cable, PVC, yellow, length: 15.3 m, female M12 x 1, 8-pin            |    |
| QDE-875D  | 3071466   | Connection cable, PVC, yellow, length: 22.9 m, female M12 x 1, 8-pin            |    |
| QDE-8100D | 3071467   | Connection cable, PVC, yellow, length: 30.5 m, female M12 x 1, 8-pin            |  |
| QDE-515D  | 3070880   | Connection cable, PVC, yellow, length: 4.57 m, female M12 x 1, 5-pin            |  |
| QDE-525D  | 3070881   | Connection cable, PVC, yellow, length: 2.44 m, female M12 x 1 - male M12, 8-pin |   |
| QDE-550D  | 3070882   | Connection cable, PVC, yellow, length: 15.3 m, female M12 x 1, 5-pin            |  |
| QDE-575D  | 3071464   | Connection cable, PVC, yellow, length: 22.9 m, female M12 x 1, 5-pin            |   |

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| Type code   | Ident no. | Description   | Dimension drawing   |
|-------------|-----------|---|---|
| QDE-5100D   | 3071465   | Connection cable, PVC, yellow, length: 30.5 m, female M12 x 1, 5-pin                |  |
| DEE2R-81D   | 3072205   | Connection cable, PVC, yellow, length: 0.31 m, female M12 x 1 - male M12, 8-pin     |   |
| DEE2R-83D   | 3072206   | Connection cable, PVC, yellow, length: 0.91 m, female M12 x 1 - male M12, 8-pin     |   |
| DEE2R-88D   | 3072635   | Connection cable, PVC, yellow, length: 2.44 m, female M12 x 1 - male M12, 8-pin     |   |
| DEE2R-815D  | 3072207   | Connection cable, PVC, yellow, length: 4.57 m, female M12 x 1 - male M12, 8-pin     |   |
| DEE2R-825D  | 3072208   | Connection cable, PVC, yellow, length: 7.62 m, female M12 x 1 - male M12, 8-pin     |   |
| DEE2R-850D  | 3072209   | Connection cable, PVC, yellow, length: 15.2 m, female M12 x 1 - male M12, 8-pin     |   |
| DEE2R-875D  | 3072210   | Connection cable, PVC, yellow, length: 22.9 m, female M12 x 1 - male M12, 8-pin     |   |
| DEE2R-8100D | 3072211   | Connection cable, PVC, yellow, length: 30.5 m, female M12 x 1 - male M12, 8-pin     |   |
| DEE2R-51D   | 3072333   | Connection cable, PVC, yellow, length: 0.31 m, female M12 x 1 - male M12 x 1, 5-pin |   |
| DEE2R-53D   | 3072334   | Connection cable, PVC, yellow, length: 0.91 m, female M12 x 1 - male M12 x 1, 5-pin |   |
| DEE2R-58D   | 3072636   | Connection cable, PVC, yellow, length: 2.44 m, female M12 x 1 - male M12 x 1, 5-pin |   |
| DEE2R-515D  | 3072335   | Connection cable, PVC, yellow, length: 4.57 m, female M12 x 1 - male M12 x 1, 5-pin |   |
| DEE2R-525D  | 3072336   | Connection cable, PVC, yellow, length: 7.62 m, female M12 x 1 - male M12 x 1, 5-pin |   |
| DEE2R-550D  | 3072337   | Connection cable, PVC, yellow, length: 15.2 m, female M12 x 1 - male M12 x 1, 5-pin |   |
| DEE2R-575D  | 3072338   | Connection cable, PVC, yellow, length: 22.9 m, female M12 x 1 - male M12 x 1, 5-pin |   |
| DEE2R-5100D | 3072339   | Connection cable, PVC, yellow, length: 30.5 m, female M12 x 1 - male M12 x 1, 5-pin |   |