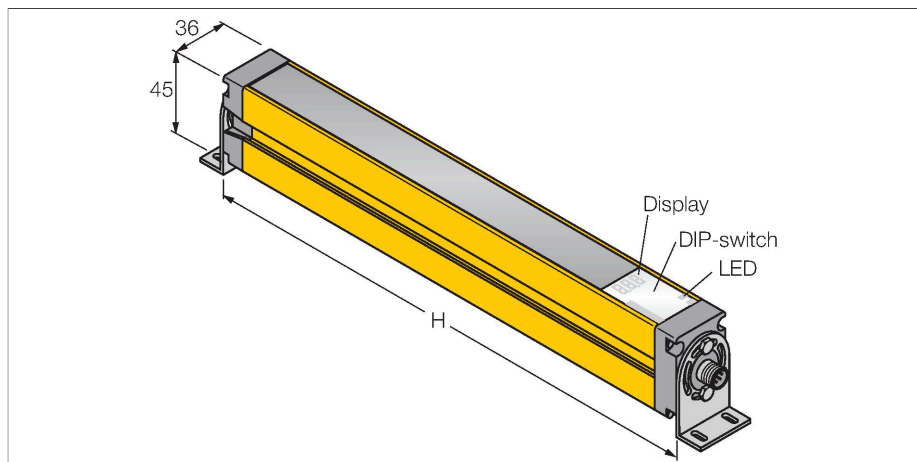


# SLSE14-450Q5

## – Emitter



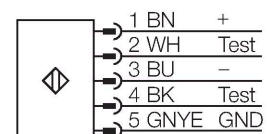
### Technical data

|                              |                             |
|------------------------------|-----------------------------|
| Type                         | SLSE14-450Q5                |
| ID no.                       | 3071214                     |
| <b>Optical data</b>          |                             |
| Function                     | Light screen                |
| Light type                   | IR                          |
| Wavelength                   | 950 nm                      |
| Optical resolution           | 14 mm                       |
| Range                        | 100...6000 mm               |
| Scan field                   | 450 mm                      |
| Number of beams              | 60                          |
| With muting function         | no                          |
| Scan Code                    | Adjustable                  |
| <b>Electrical data</b>       |                             |
| Operating voltage            | 20...28 VDC                 |
| Residual ripple              | < 10 % U <sub>ss</sub>      |
| DC rated operational current | ≤ 100 mA                    |
| Short-circuit protection     | yes                         |
| Reverse polarity protection  | yes                         |
| Response time typical        | < 19 ms                     |
| With restart interlock       | yes                         |
| Blanking function            | yes                         |
| <b>Mechanical data</b>       |                             |
| Design                       | Rectangular, EZ-Screen      |
| Dimensions                   | 45 x 36 x 522 mm            |
| Housing material             | Metal, AL, Yellow polyester |
| Lens                         | plastic, Acrylic            |
| Cascadable                   | no                          |

### Features

- Male M12 × 1, 5-pin
- Test function
- Protection class IP65
- Adjustment via DIP switch
- Operating voltage 24 VDC ±15 %
- Resolution 14 mm
- Scan field 450 mm
- All devices incl. 2 EZA-MBK-11 mounting brackets; 900 mm devices and longer additionally incl. 1 EZA-MBK-12
- 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

### Wiring diagram



### Functional principle

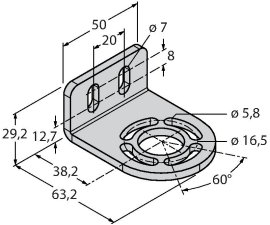
The high-resolution safety light screen for personnel protection consists of an emitter and a receiver. The system is optically synchronized, making the wiring between emitter and receiver redundant. The receiver's safety switching outputs are directly connected to a load relay and trigger an immediate 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.

Technical data

|                       |                             |
|-----------------------|-----------------------------|
| Electrical connection | Connectors, M12 × 1         |
| Number of cores       | 5                           |
| Ambient temperature   | 0...+50 °C                  |
| Protection class      | IP65                        |
| Power-on indication   | LED, Green                  |
| Tests/approvals       |                             |
| Vibration resistance  | 10-55 Hz at 0.35 mm         |
| Shock test            | 10 g at 16 ms (6000 cycles) |
| Approvals             | CE, cULus listed            |

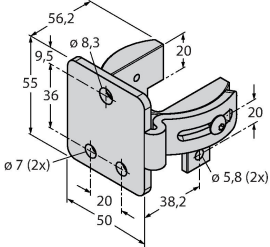
Accessories

EZA-MBK-113071470



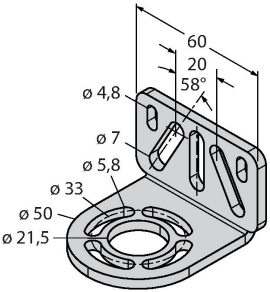
Mounting bracket, steel, black-finished, for EZ-ARRAY and EZ-SCREEN standard and cascade 14 & 30 mm

EZA-MBK-123071756



Mounting bracket, steel, black-finished, for EZ-ARRAY and EZ-SCREEN standard and cascade 14 & 30 mm

EZA-MBK-203072587



Mounting bracket, steel, black-finished, for EZ-ARRAY and EZ-SCREEN standard 14 & 30 mm

## Accessories

| Dimension drawing                                                                 | Type        | ID no.  |                                                                                                                  |
|-----------------------------------------------------------------------------------|-------------|---------|------------------------------------------------------------------------------------------------------------------|
|  | QDE-515D    | 3070880 | Connection cable for safety light screens, PVC, yellow, length 4.57 m, female connection, 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 for safety light screens, PVC, yellow, length 15.3 m, female connection, M12 x 1, 5-pin         |
|  | QDE-575D    | 3071464 | Connection cable, PVC, yellow, length: 22.9 m, female M12 x 1, 5-pin                                             |
|                                                                                   | QDE-5100D   | 3071465 | Connection cable for safety light screens, PVC, yellow, length 30.5 m, female connection, M12 x 1, 5-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                              |
|                                                                                   | DEE2R-58D   | 3094307 | Connection cable, PVC, yellow, length: 2.44 m, M12 x 1 female connector, 5-pin, on M12 x 1 male connector, 5-pin |