

# SLSCE30-1650Q8

## Light Screen for Machine Safety Applications – cascable emitter



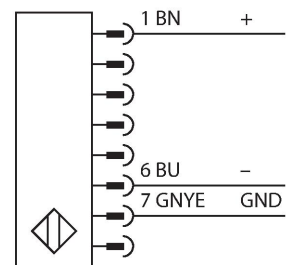
### Features

- Male M12 × 1, 8-pin
- Up to 4 modules cascable
- Protection class IP65
- Adjustment via DIP switch
- Operating voltage 24 VDC ±15 %
- Resolution 30 mm
- Scan field 1650 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

### Technical data

|                              |                             |
|------------------------------|-----------------------------|
| Type                         | SLSCE30-1650Q8              |
| ID no.                       | 3072415                     |
| <b>Optical data</b>          |                             |
| Function                     | Light screen                |
| Light type                   | IR                          |
| Wavelength                   | 950 nm                      |
| Optical resolution           | 30 mm                       |
| Range                        | 100...18000 mm              |
| Scan field                   | 1650 mm                     |
| Number of beams              | 110                         |
| 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        | < 30 ms                     |
| With restart interlock       | yes                         |
| Blanking function            | yes                         |
| <b>Mechanical data</b>       |                             |
| Design                       | Rectangular, EZ-Screen      |
| Dimensions                   | 45 x 36 x 1719 mm           |
| Housing material             | Metal, AL, Yellow polyester |
| Lens                         | plastic, Acrylic            |

### Wiring diagram



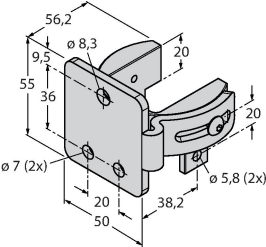
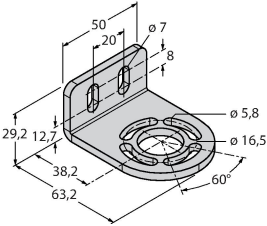
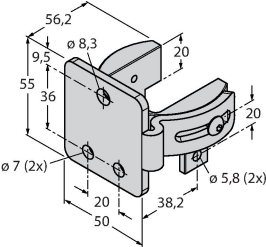
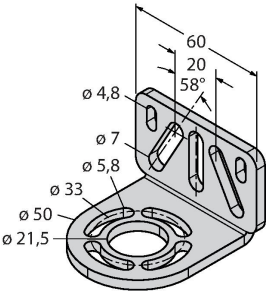
### Functional principle

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

|                       |                             |
|-----------------------|-----------------------------|
| Cascadable            | yes                         |
| Electrical connection | Connectors, M12 × 1         |
| Number of cores       | 8                           |
| 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-21                                                                          | 3073319 | Mounting bracket, steel, black-finished, for EZ-ARRAY and EZ-SCREEN standard 14 & 30 mm             | 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             |
|  |         |                                                                                                     |  |         |                                                                                                     |

## Accessories

| Dimension drawing                                                                  | Type            | ID no.  |                                                                                                                            |
|------------------------------------------------------------------------------------|-----------------|---------|----------------------------------------------------------------------------------------------------------------------------|
|   | QDE-815D        | 3070883 | Connection cable for safety light screens, PVC, yellow, length 4.57 m, female connection, M12 x 1, 8-pin                   |
|   | QDE-825D        | 3070884 | Connection cable for safety light screens, PVC, yellow, length 7.62 m, female connection, M12 x 1, 8-pin                   |
|   | QDE-850D        | 3070885 | Connection cable for safety light screens, PVC, yellow, length 15.3 m, female connection, M12 x 1, 8-pin                   |
|   | QDE-875D        | 3071466 | Connection cable for safety light screens, PVC, yellow, length 22.9 m, female connection, M12 x 1, 8-pin                   |
|  | QDE-8100D       | 3071467 | Connection cable for safety light screens, PVC, yellow, length 30.5 m, female connection, M12 x 1, 8-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                                            |
|                                                                                    | CSB-M1280M1280  | 3075375 | Y-piece, PVC, yellow, with male M12 x 1, 8-pin on 2 x 0.3 m cable, PVC, yellow, with female M12 x 1, 8-pin                 |
|                                                                                    | CSB-M1281M1281  | 3073252 | Y-piece, PVC, yellow, length: 0.3 m with male, M12 x 1, 8-pin on 2 x 0.3 m cable, PVC, yellow, with female, M12 x 1, 8-pin |
|                                                                                    | CSB-M1288M1281  | 3073253 | Y-piece, PVC, yellow, length: 2.5 m with male, M12 x 1, 8-pin on 2 x 0.3 m cable, PVC, yellow, with female, M12 x 1, 8-pin |
|                                                                                    | CSB-M12815M1281 | 3073254 | Y-piece, PVC, yellow, length: 4.6 m with male, M12 x 1, 8-pin on 2 x 0.3 m cable,                                          |

| Dimension drawing | Type            | ID no.  |                                                                                                                            |
|-------------------|-----------------|---------|----------------------------------------------------------------------------------------------------------------------------|
|                   |                 |         | PVC, yellow, with female, M12 x 1, 8-pin                                                                                   |
|                   | CSB-M12825M1281 | 3073255 | Y-piece, PVC, yellow, length: 7.6 m with male, M12 x 1, 8-pin on 2 x 0.3 m cable, PVC, yellow, with female, M12 x 1, 8-pin |
|                   | DEE2R-88D       | 3094306 | Connection cable, PVC, yellow, length: 2.44 m, M12 x 1 female connector, 8-pin, on M12 x 1 male connector, 8-pin           |