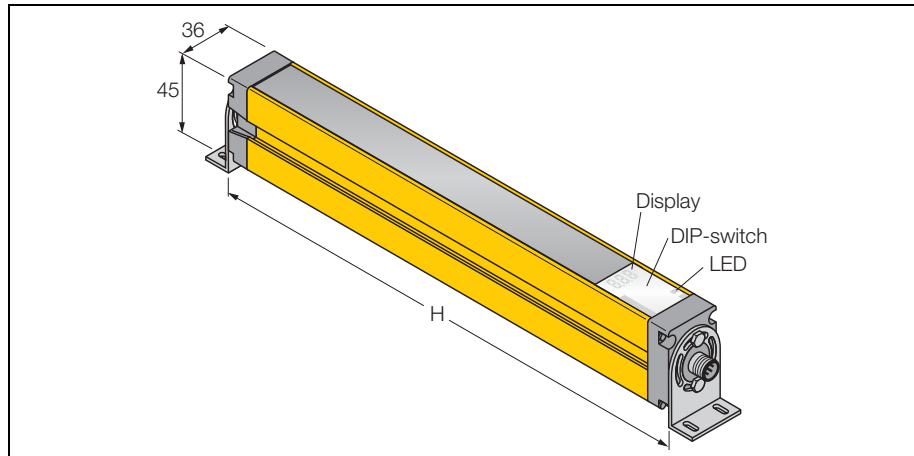


# light screen for machine safety applications

## receiver

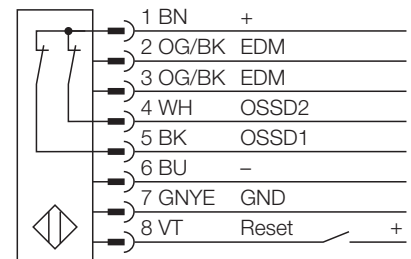
### SLSR30-1500Q8



- Personnel safety category PLe acc. to ISO 13849-1
- Category 4 according to EN 945-1, or type 4 according to IEC 61496-1, -2
- SIL 3 to IEC 61508
- adjustment via DIP switch
- male connector, M12 x 1, 8-pole
- blanking function
- resolution 30 mm
- detection zone height 1,500 mm
- operational voltage 24 VDC +15%
- degree of protection IP65

|                          |                        |
|--------------------------|------------------------|
| <b>Type</b>              | SLSR30-1500Q8          |
| Ident-No.                | 3071257                |
| <b>Operating mode</b>    | light screen           |
| Optical resolution       | 30 mm                  |
| Range                    | 100... 18000 mm        |
| Detection zone height    | 1500 mm                |
| Ambient temperature      | 0...+ 50°C             |
| <b>Operating voltage</b> | 20... 28 VDC           |
| No-load current $I_0$    | ≤ 275 mA               |
| Output function          | 2x NC, 2 x PNP         |
| Response time            | < 27ms                 |
| <b>Housing</b>           | rectangular, EZ-Screen |
| Dimensions               | 45x 36x 1569mm         |
| Housing material         | Metal, AL              |
| Lens                     | plastic, acrylic       |
| Electrical connection    | Connectors, M12 x 1    |
| Protection class         | IP65                   |
| <b>Operating voltage</b> | LED green              |
| Switching state          | 2-color LED red        |

#### Wiring diagram



#### Functional principle

The high-resolution personnel safety light screen consists of an emitter and a receiver. As the system is synchronised optically, emitter/receiver wiring is redundant. The safety switching outputs of the receiver are directly connected to a load relay (e.g. IM-TA9A) and trigger an immediate stop of the dangerous machine cycle. Personnel safety degree type 4 according to IEC 61496 is fulfilled due to 2-channel monitoring of the switching device and the diverse redundant construction with mutual processor control.