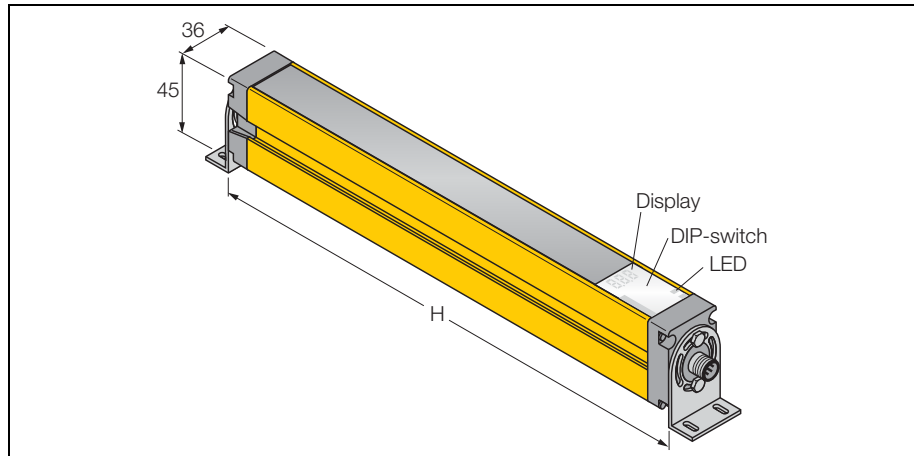


# light screen for machine safety applications

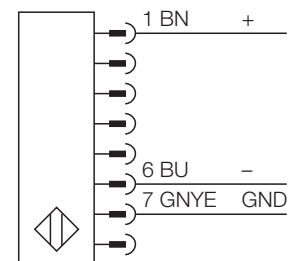
## emitter

### SLSE14-450Q8



- 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
- resolution 14 mm
- detection zone height 450 mm
- operational voltage 24 VDC +15%
- degree of protection IP65

#### 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.

|                          |                        |
|--------------------------|------------------------|
| <b>Type</b>              | SLSE14-450Q8           |
| Ident-No.                | 3072361                |
| <b>Operating mode</b>    | light screen           |
| Light type               | IR                     |
| Wavelength               | 950 nm                 |
| Optical resolution       | 14 mm                  |
| Range                    | 100... 6000 mm         |
| Detection zone height    | 450 mm                 |
| Ambient temperature      | 0...+ 50°C             |
| <b>Operating voltage</b> | 20... 28 VDC           |
| Response time            | < 19ms                 |
| <b>Housing</b>           | rectangular, EZ-Screen |
| Dimensions               | 45x 36x 522mm          |
| Housing material         | Metal, AL              |
| Lens                     | plastic, acrylic       |
| Electrical connection    | Connectors, M12 x 1    |
| Protection class         | IP65                   |
| <b>Operating voltage</b> | LED green              |