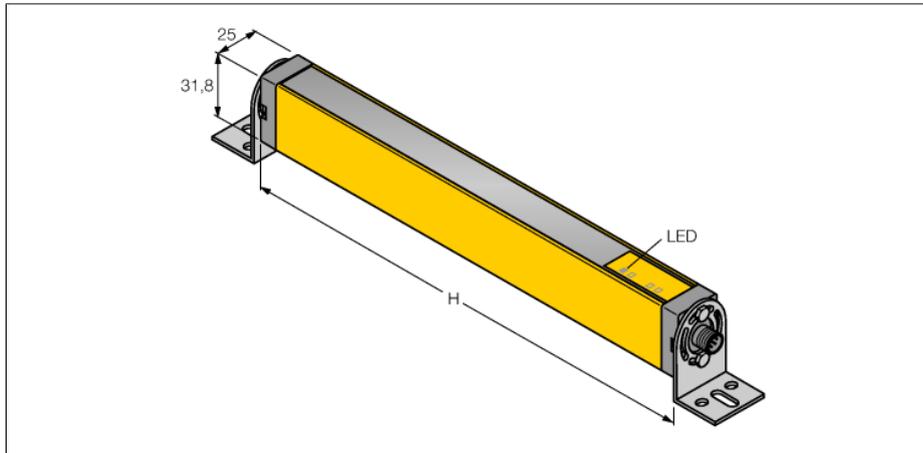


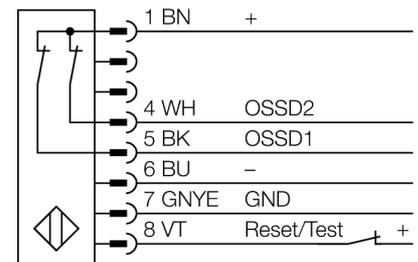
light screen for machine safety applications
emitter/receiver pair
LS2TP30-1650Q88



- personnel safety category 2 (IEC 61496-1,-2), category 2 acc.to ISO 13849-1 (EN 954-1)
- emitter with male connector, M12 x 1, 8-pole
- receiver with male connector, M12 x 1, 8-pole
- switching output without latching function
- sensing range 15 m
- detection zone height 1,650 mm
- resolution 30 mm
- operational voltage 24 VDC +15%
- Internal test in 500 ms cycle
- degree of protection IP65

| | |
|--------------------------------|-----------------------------|
| Type | LS2TP30-1650Q88 |
| Ident-No. | 3077254 |
| Operating mode | light screen |
| Light type | IR |
| Wavelength | 950 nm |
| Optical resolution | 30 mm |
| Range | 200...15000 mm |
| Detection zone height | 1650 mm |
| Ambient temperature | 0...+55 °C |
| Operating voltage | 20...28VDC |
| No-load current I ₀ | ≤ 90 mA |
| Output function | 2x NC, 2 x PNP |
| Response time | < 27 ms |
| Design | rectangular, EZ-Screen |
| Dimensions | 31.8 mm x 25.2 mm x 1713 mm |
| Housing material | Metal, AL |
| Lens | plastic, acrylic |
| Connection | connector, M12 x 1 |
| Protection class | IP65 |
| Operating voltage | LED green |
| Switching state | LED red |

Wiring diagram



Functional principle

The safety light curtain 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. Due to the dual-channel design of the switching device, personal safety degree type 2 acc.to IEC 61496 and category 2 acc. to EN 9541 are fulfilled.