

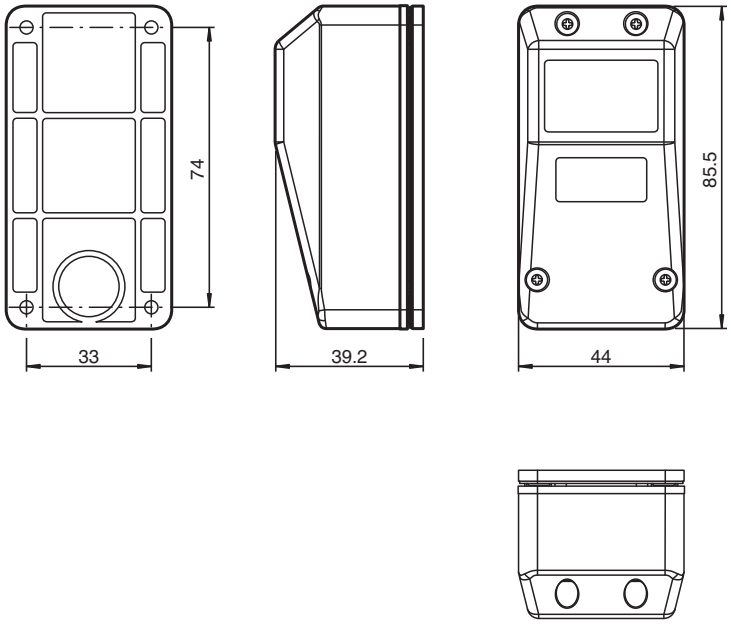
# Thru-beam sensor

## EL25-20M-LR-SET

- Photoelectric sensor for detecting people, objects and vehicles
- Indicator LED on the front
- Not sensitive to ambient light
- Relay output
- Version with accessories in scope of delivery

Mid-range photoelectric sensors for detecting people, objects, and vehicles

## Dimensions




## Technical Data

| | | |
|---|---|---|
| **System components** | | |
| Emitter | | EL25-T. |
| Receiver | | EL25-R. |
| **General specifications** | | |
| Effective detection range | | 1.5 ... 20 m |
| Threshold detection range | | 28 m |
| Number of protective field beams | | 1 |
| Light source | | IRED |
| Light type | | modulated infrared light 950 nm |
| Marking | | CE |

Release date: 2024-02-14 Date of issue: 2024-02-15 Filename: 64321287_eng.pdf

## Technical Data

| | | |
|---|---|---|
| Diameter of the light spot | | approx. 7.3 m at a distance of 20 m |
| Opening angle | | 20 ° |
| Optical face | | frontal |
| Ambient light limit | | 100000 Lux |
| **Indicators/operating means** | | |
| Operation indicator | | emitter<br>LED yellow: Power on |
| Function indicator | | Transmitter: flashes during test<br>Receiver:<br>LED red: lit when the light beam is interrupted<br>LED yellow: lights up when light beam is free |
| Stability alarm indicator | | Receiver: flashing (approx. 4 Hz) |
| **Electrical specifications** | | |
| Operating voltage | $U_B$ | 24 V AC ± 25 %<br>10 ... 40 V DC |
| Operating current | $I_B$ | Emitter: ≤ 25 mA<br>Receiver: ≤ 30 mA |
| Power consumption | $P_0$ | Emitter: ≤ 1 VA<br>Receiver: ≤ 1.2 VA |
| **Output** | | |
| Output type | | relay, change-over contact |
| Switching type | | light/dark on |
| Signal output | | Relay, 1 alternator |
| Switching voltage | | DC: max. 48 V AC: max. 50 V |
| Switching current | | DC: max. 0.5 A AC: max. 0.6 A |
| Energized/De-energized delay | | when the light beam is unobstructed again, the relay also switches 100 ms Delay |
| Response time | | < 20 ms detection of the light beam interruption |
| **Conformity** | | |
| Product standard | | EN 61000-6-2, EN 61000-6-3 |
| **Ambient conditions** | | |
| Ambient temperature | | -25 ... 60 °C (-13 ... 140 °F) |
| Storage temperature | | -35 ... 80 °C (-31 ... 176 °F) |
| **Mechanical specifications** | | |
| Degree of protection | | IP65 according to EN 60529 |
| Connection | | screw terminals for max. 1.5 $mm^2$ |
| Material | | |
| Housing | | Base: ABS GF15<br>Upper part: PMMA red |
| Mass | | approx. 60 g |
| Dimensions | | |
| Height | | 86 mm |
| Width | | 44 mm |
| Depth | | 39 mm |

Release date: 2024-02-14 Date of issue: 2024-02-15 Filename: 64321287_eng.pdf