LS 85

Throughbeam photoelectric sensors

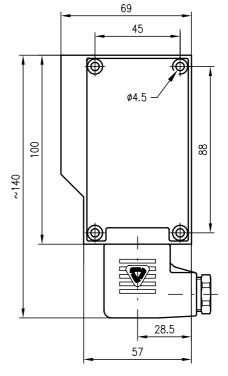




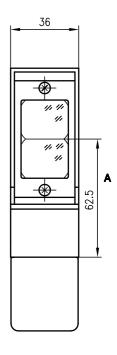
65 m

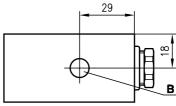


- AC version 230 VAC with relay output
- Special voltages for universal application
- Light switching and delay before start-up for optimal adaptation to applications
- Connection via standard plug with screw connector up to 1.5 mm²



Dimensioned drawing





- Optical axis
- Indicator diode В

Electrical connection

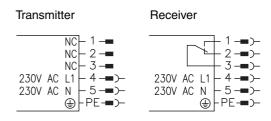




Accessories:

(available separately)

- Mounting systems (BT 85)
- Alignment aid ARH 2



LS 85

Specifications

Optical data

Typ. operating range limit 1) Operating range 2) 0 ... 65 m 0 ... 50 m LED (modulated light) Light source Wavelength

880 nm

Timing

Sensor switching frequency 20Hz Sensor response time 25ms Delay before start-up $\leq 200\,\text{ms}$

Electrical data

Operating voltage U_B Power consumption 230 VAC ± 10% 50/60 Hz 2.5 VA/3 VA relay, 1 change-over contact Switching output Function characteristics Switching voltage, relay Switching current, relay Switching power, relay light switching 250 VAC/DC

250 VAC/DC 250 VAC 3A / 30 V DC 3A 250 VAC – 50 W 250 VAC 60 VA ind. load

Indicators

LED yellow light path free, alignment aid

Mechanical data

Housing Weight diecast aluminium transmitter 460g, receiver 480g

Optics cover

glass standard plug with screw connector up to 1.5mm² Connection type

Environmental data

Ambient temp. (operation/storage) ³⁾ Protective circuit ⁴⁾ -20°C ... +60°C/-30°C ... +70°C

1, 2, 3 I, all-insulated IP 65 VDE safety class Protection class

1 (acc. to EN 60825-1) IEC 60947-5-2 LED class

Standards applied **Options**

De-humidifying system

1) Typ. operating range limit: max. attainable range without performance reserve

2) Operating range: recommended range with performance reserve
3) -30°C with operating voltage continuously applied

4) 1=transient protection, 2=polarity reversal protection, 3=short circuit protection

Tables

Diagrams

Order guide

Designation Part No. Transmitter and receiver LS 85/7 Transmitter LS 85/7 SE 500 00250 Receiver LS 85/7 E 500 00251

Remarks

LS 85/7... - 03 0501

to prevent condensation on the optics (due to temperature