

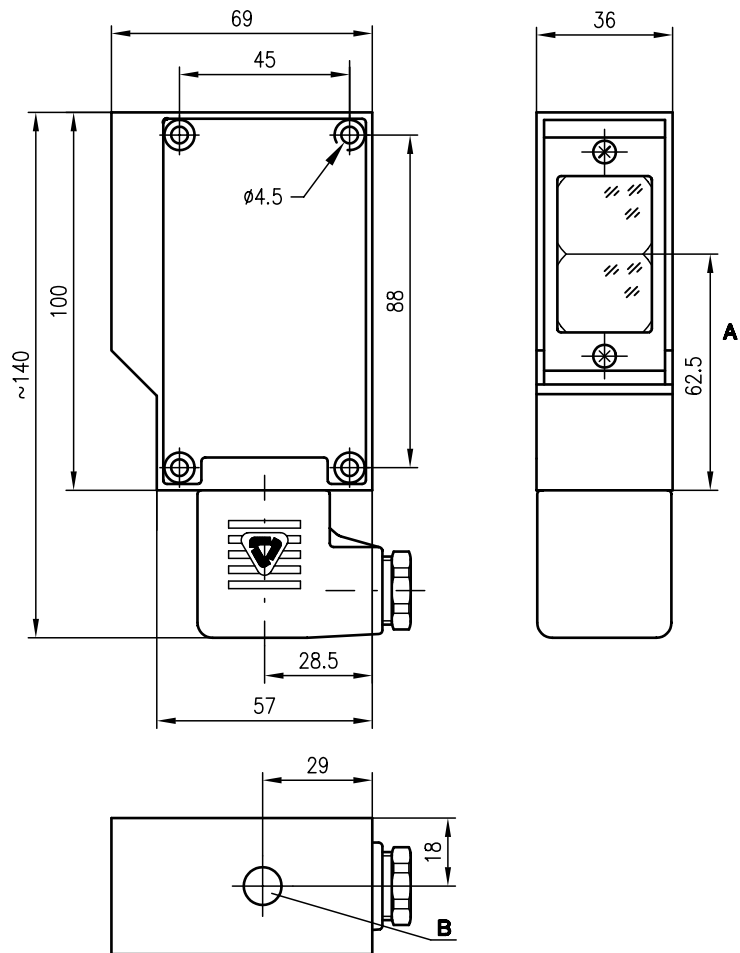


LS 85

Throughbeam photoelectric sensors



Dimensioned drawing



A Optical axis
B Indicator diode



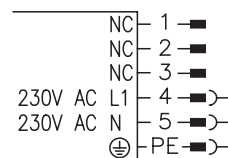
65m



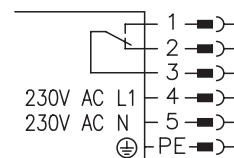
- AC version 230VAC with relay output
- Special voltages for universal application
- Light switching and delay before start-up for optimal adaptation to applications
- Connection via standard plug with screw connector up to 1.5mm²

Electrical connection

Transmitter



Receiver



Accessories:

(available separately)

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

We reserve the right to make changes • 85_a02e.fm



Specifications

Optical data

Typ. operating range limit ¹⁾	0 ... 65m
Operating range ²⁾	0 ... 50m
Light source	LED (modulated light)
Wavelength	880nm

Timing

Sensor switching frequency	20Hz
Sensor response time	25ms
Delay before start-up	≤ 200ms

Electrical data

Operating voltage U _B	230VAC ± 10% 50/60Hz
Power consumption	2.5VA/3VA
Switching output	relay, 1 change-over contact
Function characteristics	light switching
Switching voltage, relay	250VAC/DC
Switching current, relay	250VAC 3A / 30V DC 3A
Switching power, relay	250VAC – 50W 250VAC 60VA ind. load

Indicators

LED yellow	light path free, alignment aid
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Mechanical data

Housing	diecast aluminium
Weight	transmitter 460g, receiver 480g
Optics cover	glass
Connection type	standard plug with screw connector up to 1.5mm ²

Environmental data

Ambient temp. (operation/storage) ³⁾	-20°C ... +60°C/-30°C ... +70°C
Protective circuit ⁴⁾	1, 2, 3
VDE safety class	I, all-insulated
Protection class	IP 65
LED class	1 (acc. to EN 60825-1)
Standards applied	IEC 60947-5-2

Options

De-humidifying system	to prevent condensation on the optics (due to temperature changes)
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- 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