

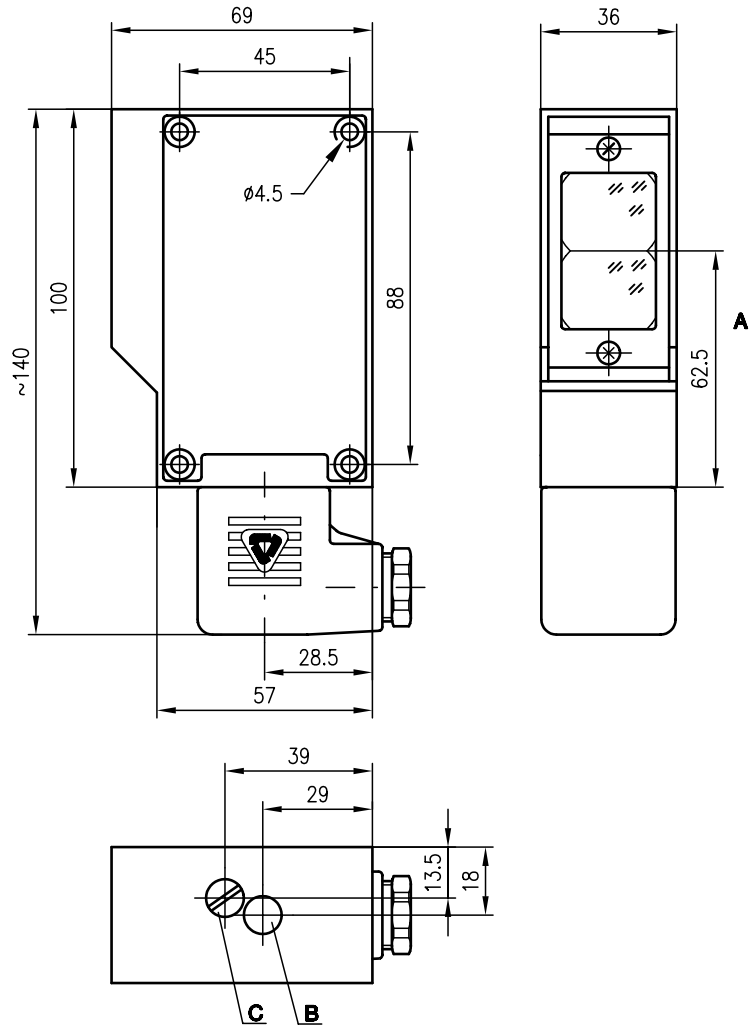


PRK 85

Retro-reflective photoelectric sensor with polarisation filter



Dimensioned drawing



- A Optical axis
- B Indicator diode
- C Light/dark switching

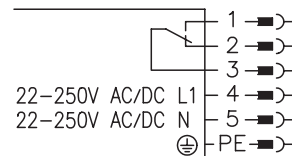


7.5m



- All-mains design
22 ... 250VAC/DC with relay output
- General light/dark switching and delay before start-up for optimal adaptation to applications
- Connection via standard plug with screw connector up to 1.5mm²

Electrical connection



Accessories:

(available separately)

- Mounting systems (BT 85)
- Reflectors
- Reflective tapes

We reserve the right to make changes • 85_b04e.fm



Specifications

Optical data

Typ. operating range limit (TK(S) 100x100) ¹⁾ 7.5m
 Operating range ²⁾ see tables
 Light source LED (modulated light)
 Wavelength 660nm (visible red light, polarised)

Timing

Switching frequency 20Hz
 Response time 25ms
 Delay before start-up ≤ 200ms

Electrical data

Operating voltage U_B 22 ... 250VAC 50/60Hz
 22 ... 250VDC ± 10%
 Power consumption ≤ 1.5VA
 Switching output relay, 1 change-over contact
 Function characteristics light or dark switching (reversible)
 Switching voltage, relay 250 VAC/DC
 Switching current, relay 250 VAC 3A/30VDC 3A
 Switching power, relay 250 VAC – 50W
 250 VAC 60VA ind. load

Indicators

LED red light path free
 LED red flashing light path free, no performance reserve

Mechanical data

Housing diecast aluminium
 Optics cover glass
 Weight 350g
 Connection type standard plug with screw connector up to 1.5mm²

Environmental data

Ambient temp. (operation/storage) ³⁾ -20°C ... +55°C/-30°C ... +55°C
 Protective circuit ⁴⁾ 1, 2, 3, 4
 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)

- 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 for all outputs, 4=interference blanking

Tables

Reflectors		Operating range
TK(S)	100x100	0.3 ... 6.0m
TK(S)	50x100	0.3 ... 5.5m
TK(S)	50x50	0.3 ... 4.5m
TK	82	0.5 ... 6.0m
Tape 2	100x100	0.4 ... 3.5m

TK ... = adhesive
 TKS ... = screw type
 Tape 2 = adhesive

Diagrams

Order guide

Designation	Part No.
PRK 85/7 UC	500 21127

Remarks