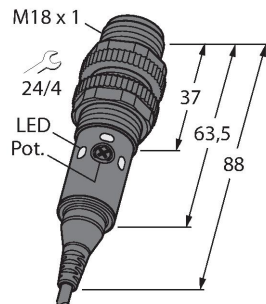


M18-3VPLPC-2M

Photoelectric Sensor – Retroreflective Sensor with Polarizing Filter



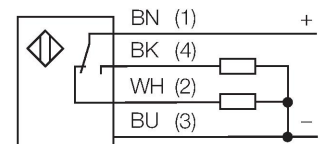
Technical data

Type	M18-3VPLPC-2M
ID no.	3092545
Optical data	
Function	Retroreflective Sensor
Operating mode	Polarized
Reflector included in delivery	no
Light type	Red polarized
Wavelength	624 nm
Range	150...6000 mm
Electrical data	
Operating voltage	10...30 VDC
No-load current	≤ 16 mA
Short-circuit protection	yes / Cyclic
Reverse polarity protection	yes
Output function	Complementary contact, PNP
Readiness delay	≤ 100 ms
Response time typical	< 1.5 ms
Setting option	Potentiometer
Mechanical data	
Design	Threaded barrel, M18
Dimensions	Ø 18 x 88 mm
Housing material	Metal, Nickel-plated brass
Lens	Acrylic
Electrical connection	Cable, 2 m, PVC
Number of cores	4
Core cross-section	0.5 mm ²

Features

- Cable, 2 m
- Protection classes IP67 IP69K
- Ambient temperature: -40...+70 °C
- Operating voltage: 10...30 VDC
- PNP switching output, changeover

Wiring diagram



Functional principle

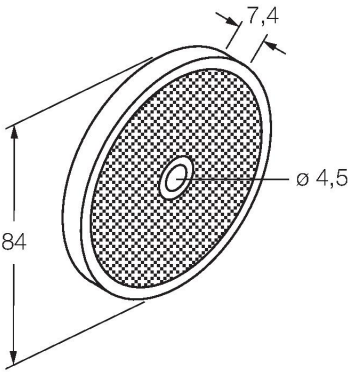
Retroreflective sensors have emitter and receiver incorporated in the same housing. The light beam of the emitter is directed towards a reflector which returns the light back to the receiver. A target is captured when it interrupts this beam. Retroreflective sensors have good contrast features and excess gain. Furthermore, only one device has to be installed and wired.

SMBS18-2-1

3085931

Accessories

Dimension drawing	Type	ID no.	
	BRT-84	3058979	Round reflector, reflection coefficient 1.4, material acrylic, ambient temperature -20 ... +60 °C



BRT-60X40C

3044997

Rectangular reflector, reflection coefficient 1.48, material: acrylic, ambient temperature -20...+60 °C

