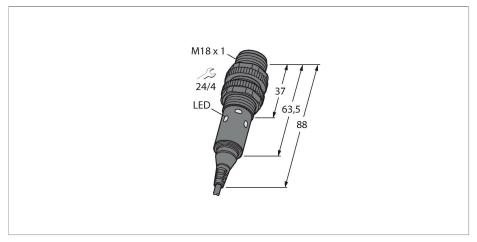


M18-4VPRL-2M Photoelectric Sensor – Opposed Mode Sensor (Receiver)





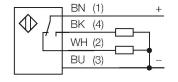
Technical data

Туре	M18-4VPRL-2M
ID	3095498
Optical data	
Function	Opposed mode sensor
Operating mode	Receiver
Light type	Red
Wavelength	624 nm
Range	025000 mm
Electrical data	
Operating voltage	1030 VDC
No-load current	≤ 8 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
Mechanical data	
Design	Tube, M18
Dimensions	Ø 18 x 88 mm
Housing material	Metal, Stainless steel
Lens	Acrylic
Electrical connection	Cable, 2 m, PVC
Number of cores	4
Core cross-section	0.5 mm²
Ambient temperature	-40+70 °C
Protection class	IP67 IP69

Features

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

Wiring diagram



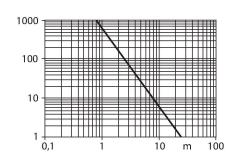
Functional principle

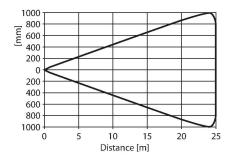
Opposed mode sensors consist of an emitter and a receiver. They are installed opposite to each other whereby the emitted light aims directly at the receiver. When an object interrupts or weakens the light beam, the sensor switches. Opposed mode sensors are the most reliable photoelectric sensors for detection of opaque objects. The high light/dark contrast and the very high excess gain are typical for this function mode and enable operation over large distances and under difficult conditions.

Excess gain curve Excess gain in relation to distance

Special features	Chemical-resistant Wash down Resistant to chemicals
Power-on indication	LED, Green
Switching state	2 × LEDs, Yellow
Error indication	Flashing
Excess gain indication	LED
Alarm display	Flashing
Tests/approvals	
Approvals	CE, cULus

Excess Gain Curve





Accessories

