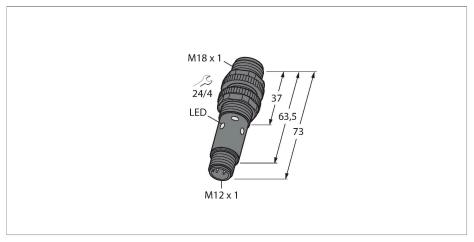


M18-4VPRL-Q8 Photoelectric Sensor – Opposed Mode Sensor (Receiver)





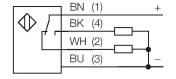
Technical data

Туре	M18-4VPRL-Q8
ID	3095499
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 73 mm
Housing material	Metal, Stainless steel
Lens	Acrylic
Electrical connection	Connector, M12 × 1, PVC
Number of cores	4
Ambient temperature	-40+70 °C
Protection class	IP67 IP69
Special features	Chemical-resistant Wash down

Features

- ■M12 × 1 male connector, 4-pin
- Protection classes IP67/IP69K
- ■Ambient temperature: -40...+70° C
- Operating voltage: 10...30 VDC
- ■PNP switching output, changeover

Wiring diagram



Functional principle

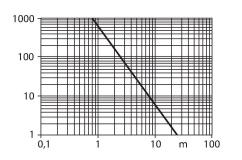
Opposed mode sensors consist of an emitter and a receiver. They are installed opposite to each other whereby the emitted light aims directly at the receiver. When an object interrupts or weakens the light beam, the sensor switches. Opposed mode sensors are the most reliable photoelectric sensors for 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.

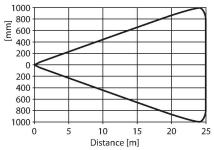
Excess gain curve Excess gain in relation to distance

25	5	
8		
		ons reserved
able		M18-4VPRL-Q8 18-01-2022 23-48 Technical modifications reserved
		18-01-2022 23-48
		M18-4VPRL-Q8

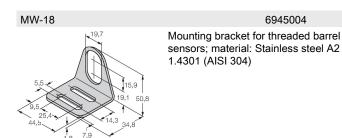
	Resistant to chemicals		
Power-on indication	LED, Green		
Switching state	2 × LEDs, Yellow		
Error indication	Flashing		
Excess gain indication	LED		
Alarm display	Flashing		
Tests/approvals			
Approvals	CE, cULus		

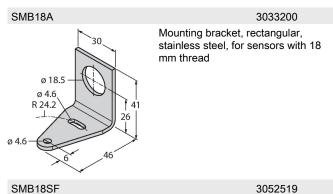
Excess Gain Curve

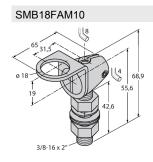




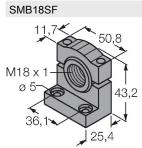
Accessories







3011184 Mounting bracket, material VA 1.4401, for M10 x 1.5 thread, thread length 18 mm



Mounting bracket, PBT black, for sensors with 18 mm thread, rotatable

Dimension drawing	Туре	ID	
M12x1	RKH4.4-2/TFG	6933086	Connection cable, M12 female, straight, 4-pin, stainless steel coupling nut, cable length: 2 m, jacket material: TPE, gray temperature range -40+105 °C; other cable lengths and designs available, see www.turck.com
M12 x 1 25.2 30	WKH4.4-2/TFG	6933093	Connection cable, M12 female, angled, 4-pin, stainless steel coupling nut, cable length: 2 m, jacket material: TPE, gray temperature range -40+105 °C; other cable lengths and designs available, see www.turck.com
M12 x 1 \(\text{ o 15} \) \(\text{ o 14} \) + \(11.5 \) - \(50 \) - \(50 \)	RKC4.4T-2/TEL	6625013	Connection cable, female M12, straight, 4-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com
0 15 M12 x 1 26.5 32	WKC4.4T-2/TEL	6625025	Connection cable, female M12, angled, 4-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com