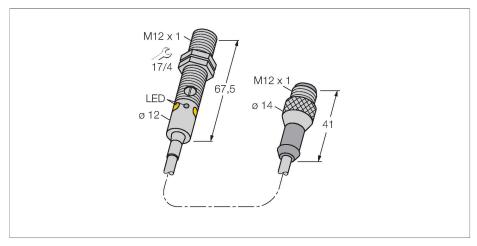


M12EQ5 Photoelectric Sensor – Opposed Mode Sensor (Emitter)



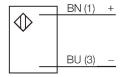
Technical data

Туре	M12EQ5
ID	3078250
Optical data	
Function	Opposed mode sensor
Operating mode	Emitter
Light type	Red
Wavelength	660 nm
Range	05000 mm
Electrical data	
Operating voltage	1030 VDC
Residual ripple	< 10 % U _{ss}
No-load current	≤ 20 mA
Short-circuit protection	yes
Reverse polarity protection	yes
Readiness delay	≤ 100 ms
Response time typical	< 0.625 ms
Setting option	Potentiometer
Mechanical data	
Design	Tube, M12
Dimensions	Ø 12 x 67.5 mm
Housing material	Metal, Nickel-plated brass, Nickel Plated
Lens	plastic, PMMA
Electrical connection	Cable with connector, M12 × 1, 0.15 m, PVC
Number of cores	4
Ambient temperature	-20+60 °C
Protection class	IP67 IP68

Features

- Cable with male end M12 × 1, 4-pin, PVC, 150 mm
- Protection classes IP67 / IP68
- Metal housing
- ■LED all-round visible
- Operating voltage: 10...30 VDC

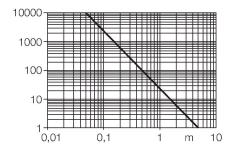
Wiring diagram



Functional principle

Opposed mode sensors consist of an emitter and receiver. They are installed opposite each other so that the light from the emitter is aimed 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 targets. An excellent contrast between light and dark conditions and an extremly high excess gain are typical of this sensing mode, thus allowing operation over larger distances and under difficult conditions.

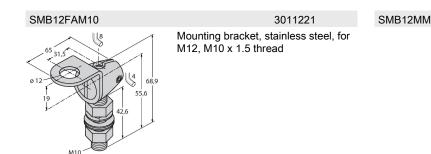
Excess Gain Curve



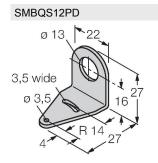
Technical data

Special features	Encapsulated Wash down		
Power-on indication	LED, Green		
Error indication	LED, green, Flashing		
Excess gain indication	LED		
Tests/approvals			
MTTF	46 years acc. to SN 29500 (Ed. 99) 40 °C		
Approvals	CE		

Accessories



3027635 Mounting bracket, stainless steel, for M12



Mounting bracket; material VA 1.4401, for Q12 & M12 series

3059606

Accessories

Dimension drawing	Туре	ID	
M12×1 015	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 M12x1 26.5 32 5	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