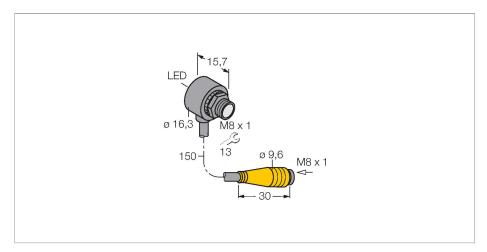
T86EVQ Photoelectric Sensor – Opposed Mode Sensor (Emitter) Miniature Sensor





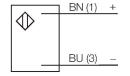
Туре	T86EVQ	
ID	3066672	
Optical data		
Function	Opposed mode sensor	
Operating mode	Emitter	
Light type	Red	
Wavelength	660 nm	
Range	02000 mm	
Electrical data		
Operating voltage	1030 VDC	
Residual ripple	< 10 % U _{ss}	
DC rated operational current	≤ 50 mA	
No-load current	≤ 25 mA	
Short-circuit protection	yes	
Reverse polarity protection	yes	
Readiness delay	≤ 100 ms	
Response time typical	< 1 ms	
Mechanical data		
Design	Tube, T8	
Dimensions	Ø 8 x 15.8 mm	
Housing material	Plastic, Thermoplastic material, Black	
Lens	plastic, Acrylic	
Electrical connection	Cable with connector, M8 × 1, 0.15 m, PVC	
Number of cores	3	
Core cross-section	0.1 mm²	

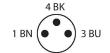


Features

- Cable with male end, PVC, M8 × 1,150 mm
- ■Protection class IP67
- ■Ambient temperature: -20...+55 °C
- Ideal for confined spaces
- Operating voltage: 10...30 VDC

Wiring diagram



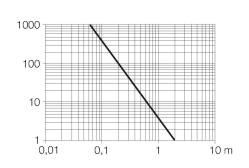


Functional principle

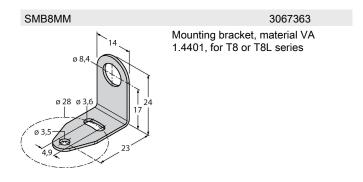
Opposed mode sensors consist of an emitter and receiver. They are installed opposite each other so that the light from the emitter is aimed directly at the receiver. When an object interrupts or weakens the light beam, the sensor switches. Opposed mode sensors are the most reliable photoelectric sensors 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

Ambient temperature	-20+55 °C	
Protection class	IP67	
Power-on indication	LED, Green	
Switching state	LED, Red	
Error indication	LED, green, Flashing	
Excess gain indication	LED	
Alarm display	LED red Flashing	
Tests/approvals		
Approvals	CE	



Accessories



Accessories

Dimension drawing	Туре	ID	
M8 x 1 o 9.6	PKG3M-2/TEL	6625058	Connection cable, female M8, straight, 3-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com
M8 x 1 0 9 5 16.5 2 9 16.5 16.5	PKW3M-2/TEL	6625064	Connection cable, female M8, angled, 3-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com