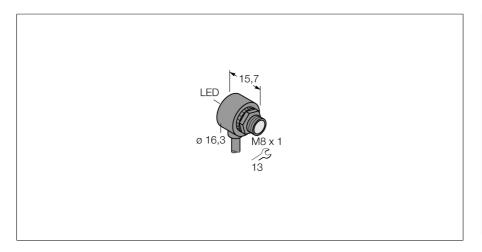


Photoelectric Sensor Opposed Mode Sensor (Emitter/Receiver) Miniature Sensor T8AN6RQ5





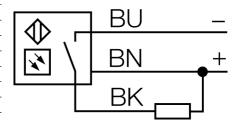
- T8AN6RQ5 ID 3070688 Optical data Function Opposed mode sensor Operating mode Receiver
- Range 0...2000 mm

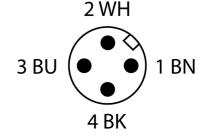
Electrical data	
Operating voltage U _B	1030 VDC
Residual ripple	< 10 % U _{ss}
DC rated operating current I _e	≤ 50 mA
No-load current I₀	≤ 25 mA
Short-circuit protection	yes
Reverse polarity protection	yes
Output function	NO contact, light operation, NPN
Switching frequency	≤ 666 Hz
0 1 7	·
Readiness delay	≤ 100 ms

Mechanical data	
Design	Rectangular with thread, T8
Dimensions	Ø 8 x 15.8 mm
Housing material	Plastic, ABS, Black
Lens	plastic, Acrylic
Electrical connection	Cable with connector, M12 × 1, 0.15 m, PVC
Number of cores	4
Core cross-section	0.1 mm²
Ambient temperature	-20+55 °C
Protection class	IP67
Power-on indication	LED, Green
Switching state	LED. Red

- Cable with male end M12 × 1, PVC, 150
- Protection class IP67
- Ambient temperature: -20...+55 °C
- Ideal for confined spaces
- Operating voltage: 10...30 VDC
- NPN switching output, light operation

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

Error indication

Alarm display

Excess gain indication

LED, green, Flashing

LED red Flashing

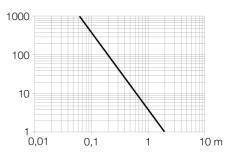


Tests/approvals		
Approvals	CE	

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

Excess gain in relation to the distance





Accessories

Type code	Ident no.		Dimension drawing
SMB8MM	3067363	Mounting bracket, material VA 1.4401, for T8 or T8L series	0 8.4 14 0 24 17 17 14 17 14 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18