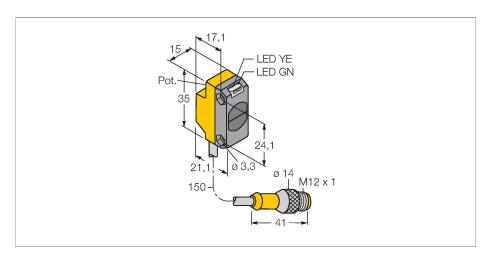


QS186EBQ5 Photoelectric Sensor – Opposed Mode Sensor (Emitter)



Technical data

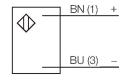
Туре	QS186EBQ5	
ID	3064589	
Optical data		
Function	Opposed mode sensor	
Operating mode	Emitter	
Light type	IR	
Wavelength	940 nm	
Range	03000 mm	
Electrical data		
Operating voltage	1030 VDC	
Residual ripple	< 10 % U _{ss}	
DC rated operational current	≤ 100 mA	
Short-circuit protection	yes	
Reverse polarity protection	yes	
Readiness delay	≤ 100 ms	
Mechanical data		
Design	Rectangular, QS18	
Dimensions	27.7 x 15 x 35 mm	
Housing material	Plastic, ABS	
Lens	plastic, Acrylic	
Electrical connection	Cable with connector, M12 × 1, 0.15 m, PVC	
Number of cores	4	
Ambient temperature	-20+70 °C	
Protection class	IP67	
Power-on indication	LED, Green	
Excess gain indication	LED	

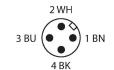


Features

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

Wiring diagram





Functional principle

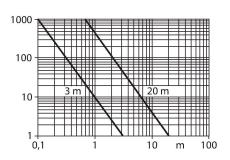
Opposed mode sensors consist of an emitter and receiver. They are installed opposite to each other so that the light from the emitter is aimed directly at the receiver. When an object interrupts or weakens the light beam, the sensor switches. Opposed mode sensors are the most reliable photoelectric sensors for detection of opaque targets. The excellent light/dark contrast and the high excess gain allow operation over larger distances and under difficult conditions.

Excess gain curve Excess gain in relation to the distance (type 6EB/RB)

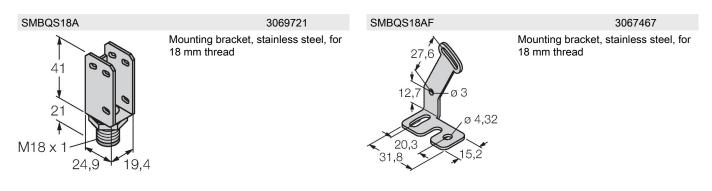
TURCK

Technical data

Tests/approvals	
MTTF	530 years acc. to SN 29500 (Ed. 99) 40 °C
Approvals	CE, cURus



Accessories



Accessories

Dimension drawing	Type	ID	
M12x1 015 50 14	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	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