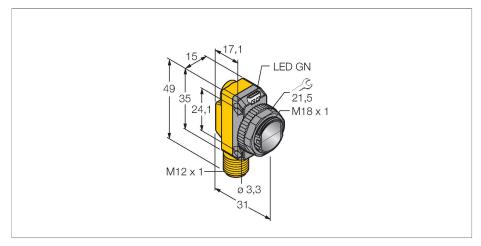
QS186LE212Q8 Photoelectric Sensor - Laser Emitter



Technical data

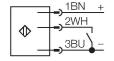
Туре	QS186LE212Q8	
ID no.	3074317	
Optical data		
Function	Opposed mode sensor	
Operating mode	Laser Emitter	
Light type	Red	
Wavelength	650 nm	
Laser class	<u>^</u> 2	
Range	015000 mm	
Electrical data		
Operating voltage	1030 VDC	
Residual ripple	< 10 % U _{ss}	
DC rated operational current	≤ 100 mA	
No-load current	≤ 35 mA	
Short-circuit protection	yes	
Reverse polarity protection	yes	
Readiness delay	≤ 10 ms	
Mechanical data		
Design	Rectangular with thread, QS18	
Dimensions	Ø 18 x 31 x 15 x 35 mm	
Housing material	Plastic, ABS	
Lens	plastic, PMMA	
Electrical connection	Connectors, M12 × 1, PVC	
Number of cores	4	
Ambient temperature	-10+50 °C	
Protection class	IP67	
Special features	Laser	

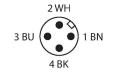


Features

- Male M12 × 1, 4-pin
- ■Protection class IP67
- ■LED all-round visible ■Male M12 × 1
- Laser class 2
- Horizontal line profile
- ■406 × 2.5 mm at 1 m distance

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.

Activation

By connecting the control input (PIN 2 WH) to ground (-) the laser beam is turned on.



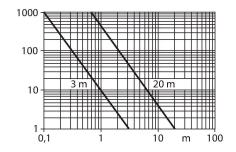
Technical data

Power-on indication	LED, Green
Excess gain indication	LED
Tests/approvals	
MTTF	530 years acc. to SN 29500 (Ed. 99) 40 °C
Approvals	CE

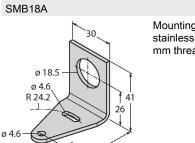
The laser beam is turned off again by feeding 10 ... 30 VDC to the control input or by nonconnecting the wire.

Excess gain curve

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



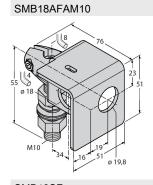
Accessories



Mounting bracket, rectangular, stainless steel, for sensors with 18

3033200

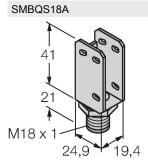
mm thread



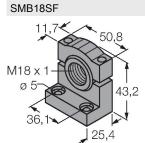
3012558 Mounting bracket, material VA

3052519

1.4401, for M10 x 1.5 thread, thread length 18 mm



3069721 Mounting bracket, stainless steel, for 18 mm thread



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



Accessories

Dimension drawing	Туре	ID no.	
M12x1 e15	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 — 32 — 55	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