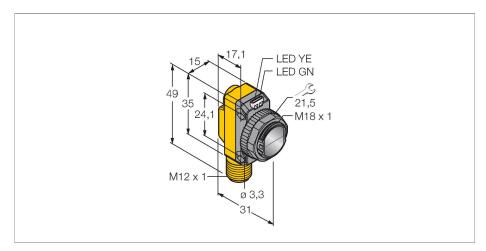


QS186LE2Q8 Photoelectric Sensor – Laser Emitter



Technical data

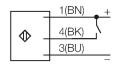
Туре	QS186LE2Q8		
ID no.	3074733		
Optical data			
Function	Opposed mode sensor		
Operating mode	Laser Emitter		
Light type	IR		
Wavelength	650 nm		
Laser class	<u>^</u> 2		
Range	015000 mm		
Electrical data			
Operating voltage	1030 VDC		
Residual ripple	< 10 % U _{ss}		
DC rated operational current	≤ 100 mA		
Short-circuit protection	yes		
Reverse polarity protection	yes		
Readiness delay	≤ 0.01 s		
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		

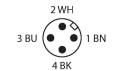


Features

- Male M12 × 1, 4-pin
 Protection class IP67
 LED all-round visible
 Male M12 × 1
- Laser class 2

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

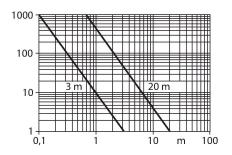
By connecting the control input (PIN 2 WH) to ground (-) the laser beam is turned on. The laser beam is turned off again by feeding 10 ... 30 VDC to the control input or by nonconnecting the wire.



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

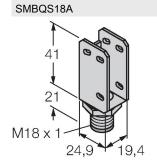
Excess gain curve Excess gain in relation to the distance (type 6EB/RB)



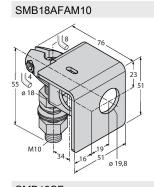
Accessories

SMB18A 3033200 Mounting bracket, rectangular, stainless steel, for sensors with 18 mm thread ø 18.5 ø 4.6

3069721



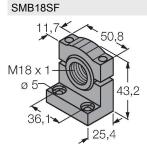
Mounting bracket, stainless steel, for 18 mm thread



Mounting bracket, material VA 1.4401, for M10 x 1.5 thread, thread length 18 mm

3012558

3052519



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



Accessories

Dimension drawing	Туре	ID no.	
M12×1 0 15 55 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 M12x 1	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