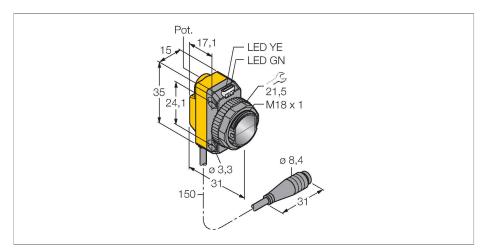


QS186LE2Q Photoelectric Sensor – Laser Emitter



Technical data

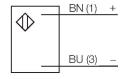
Туре	QS186LE2Q		
ID no.	3075953		
Optical data			
Function	Opposed mode sensor		
Operating mode	Laser Emitter		
Light type	IR		
Wavelength	650 nm		
Range	015000 mm		
Electrical data			
Operating voltage	1030 VDC		
Residual ripple	< 10 % U _{ss}		
DC rated operational current	≤ 100 mA		
Short-circuit protection	yes		
Reverse polarity protection	yes		
Readiness delay	≤ 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	Cable with connector, M8 × 1, 0.15 m, PVC		
Number of cores	4		
Ambient temperature	-10+50 °C		
Protection class	IP67		
Special features	Laser		
Power-on indication	LED, Green		



Features

- Cable with male end, 4-pin, PVC, 150 mm, 8 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 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

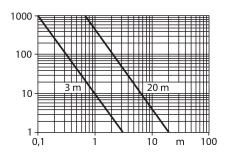
By connecting the control input (PIN 2 WH) to ground (-) the laser beam is turned on. The laser beam is turned off again by feeding 10 ... 30 VDC to the control input or by nonconnecting the wire.



Technical data

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

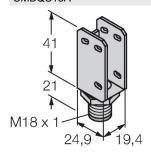
Excess gain curve Excess gain in relation to the distance (type 6EB/RB)



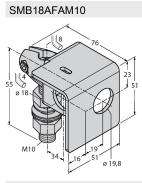
Accessories

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

SMBQS18A 3069721



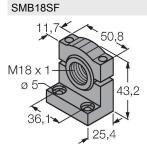
Mounting bracket, stainless steel, for 18 mm thread



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.	
M8 x 1 o 9 6	PKG4M-2/TEL	6625061	Connection cable, female M8, straight, 4-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com
M8 x 1 → 9 9.5 16.5 5 9	PKW4M-2/TEL	6625067	Connection cable, female M8, angled, 4-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com