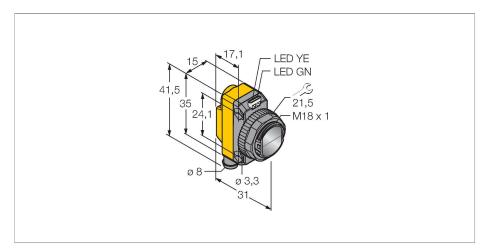


QS186LEQ7 Photoelectric Sensor – Laser Emitter



Technical data

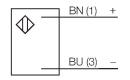
Туре	QS186LEQ7	
ID no.	3074198	
Optical data		
Function	Opposed mode sensor	
Operating mode	Laser Emitter	
Light type	Red	
Wavelength	650 nm	
Range	015000 mm	
Electrical data		
Operating voltage	1030 VDC	
Residual ripple	< 10 % U _{ss}	
DC rated operational current	≤ 100 mA	
Short-circuit protection	yes	
Reverse polarity protection	yes	
Readiness delay	≤ 250 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, M8 × 1, PVC	
Number of cores	4	
Ambient temperature	-10+50 °C	
Protection class	IP67	
Special features	Laser	
Power-on indication	LED, Green	
Excess gain indication	LED	



Features

- Male connector, M8 × 1, 4-pin
- ■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.

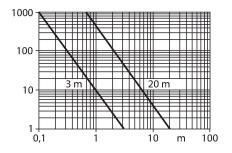
Activation

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. Excess gain curve

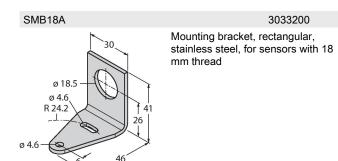
Technical data

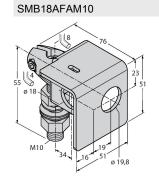
Tests/approvals	
MTTF	530 years acc. to SN 29500 (Ed. 99) 40 °C
Approvals	CE, cURus

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

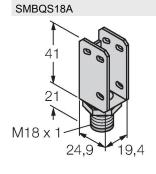


Accessories

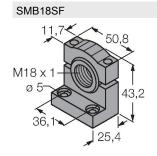




3012558 Mounting bracket, material VA 1.4401, for M10 x 1.5 thread, thread length 18 mm



3069721 Mounting bracket, stainless steel, for 18 mm thread



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

3052519

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 x1 - 0 9.5 16.5 23.5 - 23.5 - 50 - 50 - 50 - 50 - 50 - 50 - 50 -	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