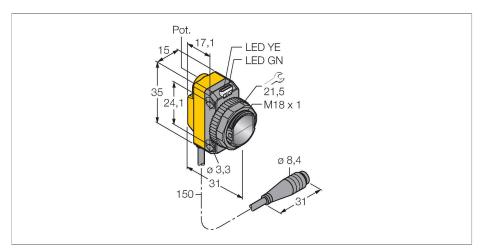


QS186LE212Q Photoelectric Sensor – Laser Emitter



Technical data

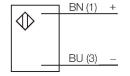
Туре	QS186LE212Q
ID	3075967
Optical data	
Function	Opposed mode sensor
Operating mode	Laser Emitter
Light type	IR
Wavelength	650 nm
Range	015000 mm
Electrical data	
Operating voltage	1030 VDC
Residual ripple	< 10 % U _{ss}
DC rated operational current	≤ 100 mA
Short-circuit protection	yes
Reverse polarity 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

Tests/approvals

MTTF

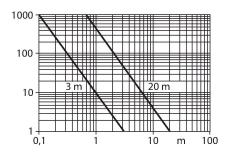
530 years acc. to SN 29500 (Ed. 99) 40

°C

Approvals

CE, cURus

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



Accessories

SMB18A

Mounting brack stainless steel, mm thread

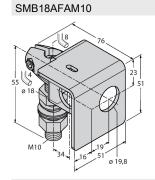
Mounting brack stainless steel, mm thread

Mounting brack stainless steel, mm thread

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

3033200

3069721



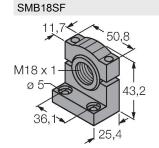
Mounting bracket, material VA 1.4401, for M10 x 1.5 thread, thread length 18 mm

3012558

3052519

M18 x 1 24,9 19,4

Mounting bracket, stainless steel, for 18 mm thread



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

Accessories

SMBQS18A

Dimension drawing Type ID
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



Dimension drawing Type ID
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