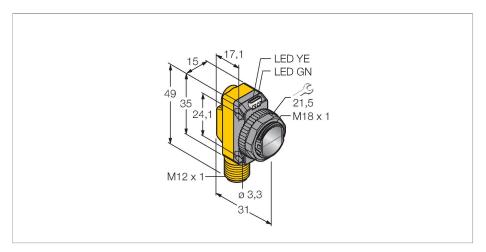
QS18VN6RQ8 Photoelectric Sensor – Opposed Mode Sensor (Emitter/ Receiver)



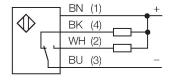
Technical data

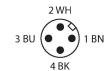
Туре	QS18VN6RQ8
ID no.	3066449
Optical data	
Function	Opposed mode sensor
Operating mode	Receiver
Range	020000 mm
Electrical data	
Operating voltage	1030 VDC
Residual ripple	< 10 % U _{ss}
DC rated operational current	≤ 100 mA
Short-circuit protection	yes
Reverse polarity protection	yes
Output function	NO/NC, NPN
Current output	100 mA
Switching frequency	≤ 400 Hz
Readiness delay	≤ 100 ms
Response time typical	< 0.75 ms
Mechanical data	
Design	Rectangular with thread, QS18
Dimensions	Ø 18 x 31 x 15 x 35 mm
Housing material	Plastic, ABS
Lens	plastic, Acrylic
Electrical connection	Connectors, M12 × 1, PVC
Number of cores	4
Ambient temperature	-20+70 °C
Protection class	IP67

Features

- Male M12 × 1, 4-pin
- ■Protection class IP67
- ■LED all-round visible
- ■Operating voltage: 10...30 VDC
- ■NPN switching output, changeover

Wiring diagram





Functional principle

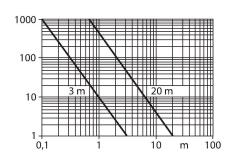
Opposed mode sensors consist of an emitter and receiver. They are installed opposite to each other so that the light from the emitter is aimed directly at the receiver. When an object interrupts or weakens the light beam, the sensor switches. Opposed mode sensors are the most reliable photoelectric sensors for detection of opaque targets. The excellent light/dark contrast and the high excess gain allow operation over larger distances and under difficult conditions.

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

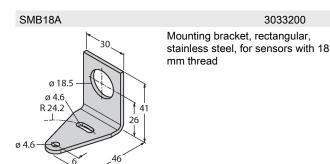
QS18VN6RQ8 | 05-05-2021 23-27 | Technical modifications reserved

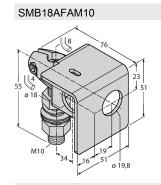
Technical data

Power-on indication	LED, Green
Switching state	LED, Yellow
Error indication	LED, green, Flashing
Excess gain indication	LED, yellow, flashing
Tests/approvals	
Tests/approvals MTTF	2952 years acc. to SN 29500 (Ed. 99) 40 °C

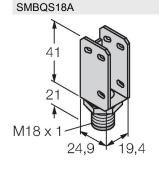


Accessories

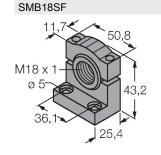




3012558 Mounting bracket, material VA 1.4401, for M10 x 1.5 thread, thread length 18 mm



3069721 Mounting bracket, stainless steel, for 18 mm thread



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

3052519

Accessories

