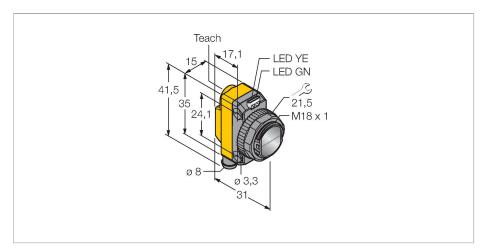


QS18VN6XLPQ7

Photoelectric Sensor – Retroreflective Sensor with Polarizing Filter for Clear Object Detection





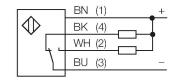
Technical data

Туре	QS18VN6XLPQ7
ID	3801272
Optical data	
Function	Retroreflective Sensor
Operating mode	Polarized (coaxial)
Wavelength	625 nm
Range	03000 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
Readiness delay	≤ 100 ms
Response time typical	< 0.4 ms
Setting option	Potentiometer
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

Features

- Male M8 × 1, 4-pin
- ■Protection class IP67
- ■LED, all-round visible
- Coaxial optics
- Sensitivity adjusted via potentiometer
- Operating voltage: 10...30 VDC
- ■NPN switching output, changeover

Wiring diagram





Functional principle

Retroreflective sensors have emitter and receiver incorporated in the same housing. The light beam of the emitter is directed towards a reflector which returns the light back to the receiver. A target is captured when it interrupts this beam. This device is sensitive enough to detect clear film, glass bottles and other transparent objects. The blind zone is reduced through the coaxial optics. The built-in polarizing filter also provides for the detection of high-gloss objects. With the help of three different limit values it is possible it can react to objects that differ in their

QS18VN6XLPQ7 | 19-01-2022 02-07 | Technical modifications reserved

Technical data

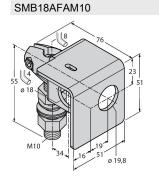
transparency. The devices are self-regulating to reduce influences by dirt and dust.

Excess gain curve Excess gain in relation to the distance (LPtype)

Accessories

Ø 18.5 Ø 4.6 R 24.2 Ø 4.6

3033200 Mounting bracket, rectangular, stainless steel, for sensors with 18 mm thread



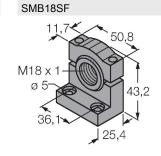
3012558 Mounting bracket, material VA 1.4401, for M10 x 1.5 thread, thread length 18 mm

41

24,9

Mounting bracket, stainless steel, for 18 mm thread

3069721



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

3052519

Accessories

M18 x 1

SMBQS18A

Dimension drawing Type ID
PKG4M-2/TEL 6625061



19,4

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



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