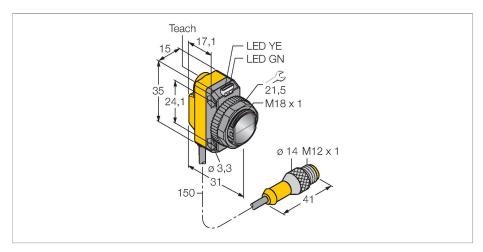


# QS18VN6XLPQ5 Photoelectric Sensor – Retroreflective Sensor with Polarizing Filter for Clear Object Detection





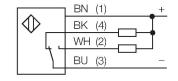
Туре	QS18VN6XLPQ5
ID	3801268
Optical data	
Function	Retroreflective Sensor
Operating mode	Polarized (coaxial)
Wavelength	625 nm
Range	03000 mm
Electrical data	
Operating voltage	1030 VDC
Residual ripple	< 10 % U <sub>ss</sub>
DC rated operational current	≤ 100 mA
Short-circuit protection	yes
Reverse 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, M12 × 1, 0.3 m, PVC
Number of cores	4

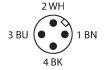


### **Features**

- Cable with male end, M12 × 1, 4-pin, PVC, 150 mm
- ■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

Ambient temperature	-40+70 °C
Protection class	IP67
Special features	Clear object detection keep/defer
Power-on indication	LED, Green
Switching state	LED, Yellow
Error indication	LED, green, Flashing
Excess gain indication	LED, yellow, flashing
Alarm display	LED yellow Flashing
Tests/approvals	
Approvals	CE, cURus

it can react to objects that differ in their transparency. The devices are self-regulating to reduce influences by dirt and dust.

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

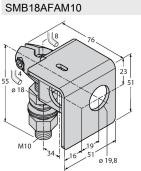
## Accessories

Technical data

# SMB18A ø 18.5 ø46 R 24.2

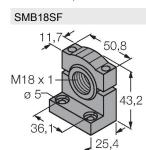
Mounting bracket, rectangular, stainless steel, for sensors with 18 mm thread

3033200



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

SMBQS18A 3069721 Mounting bracket, stainless steel, for 18 mm thread



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

3052519

# Accessories

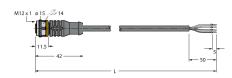
24,9

41

21

M18 x 1





19,4

Connection cable, female M12, 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

WKC4.4T-2/TEL

6625025

Connection cable, female M12, angled, 4-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com