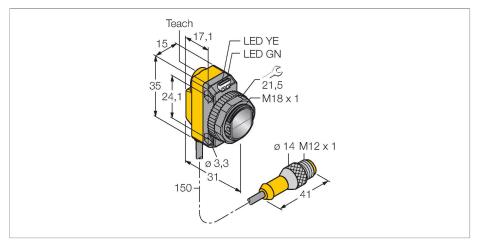


QS18EP6XLPCQ5

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



Technical data

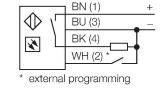
Туре	QS18EP6XLPCQ5	
ID	3097640	
Optical data		
Function	Retroreflective Sensor	
Operating mode	Polarized (coaxial)	
Reflector included in delivery	no	
Light type	Red polarized	
Wavelength	625 nm	
Range	503000 mm	
Electrical data		
Operating voltage	1030 VDC	
DC rated operational current	≤ 100 mA	
No-load current	≤ 35 mA	
Reverse polarity protection	yes	
Output function	NO contact, PNP	
Switching frequency	≤ 833 Hz	
Readiness delay	≤ 100 ms	
Response time typical	< 0.4 ms	
Setting option	Push Button Remote Teach	
Mechanical data		
Design	Rectangular with thread, QS18	
Dimensions	Ø 18 x 31 x 15 x 35 mm	
Housing material	Plastic, ABS	
Lens	plastic, PMMA	

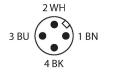


Features

- Cable with male end, M12 × 1, 4-pin, PVC, 150 mm
- ■Protection class IP67
- ■LED, all-round visible
- Coaxial optics
- ■Sensitivity adjusted via teach button
- Operating voltage: 10...30 VDC
- ■PNP switching output
- Light or dark operation

Wiring diagram





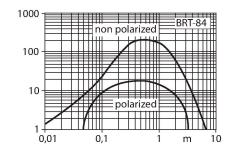
Functional principle

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

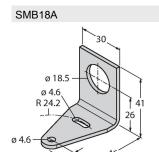
Electrical connection	Cable with connector, M12 × 1, 0.3 m, PVC
Number of cores	4
Ambient temperature	-40+70 °C
Protection class	IP67
Special features	Clear object detection keep/defer
Power-on indication	LED, Green
Switching state	LED, Yellow
Error indication	LED, green, Flashing
Excess gain indication	LED
Alarm display	LED yellow Flashing
Tests/approvals	
Approvals	CE, cURus

of three different limit values it is possible 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 (LP-type)

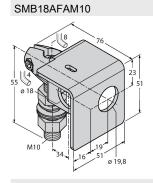


Accessories



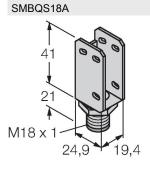
3033200

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



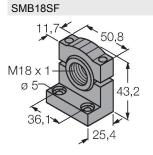
3012558

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



3069721

Mounting bracket, stainless steel, for 18 mm thread

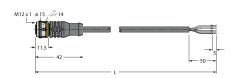


3052519

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

Accessories

Dimension drawing Type ID RKC4.4T-2/TEL 6625013



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	ID	
0 15 M12x1 32 32	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

Accessories

Dimension drawing	Туре	ID	
7.4	BRT-84	3058979	Round reflector, reflection coefficient 1.4, material acrylic, ambient temperature -20 +60 °C

