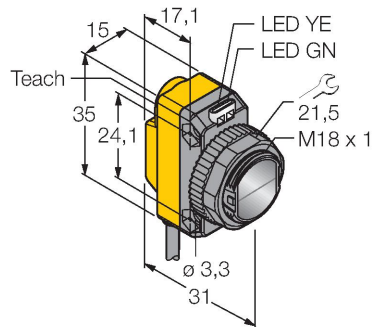


QS18EP6XLPC

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



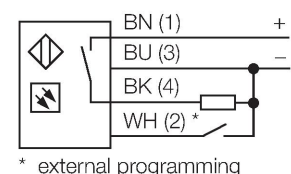
Technical data

Type	QS18EP6XLPC
ID	3097636
Optical data	
Function	Retroreflective Sensor
Operating mode	Polarized (coaxial)
Reflector included in delivery	no
Light type	Red polarized
Wavelength	625 nm
Range	50...3000 mm
Electrical data	
Operating voltage	10...30 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
Electrical connection	Cable, 2 m, PVC

Features

- Cable, PVC, 2 m, 4-wire
- 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



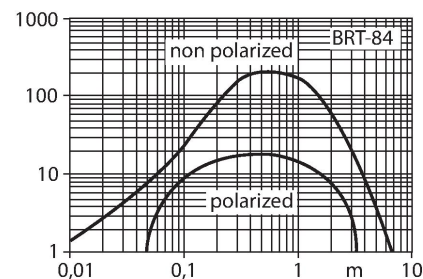
Functional principle

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 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)

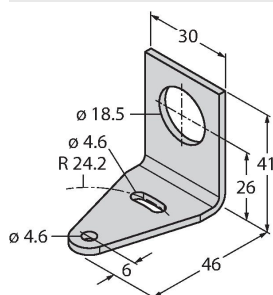
Technical data

Number of cores	4
Core cross-section	0.5 mm ²
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



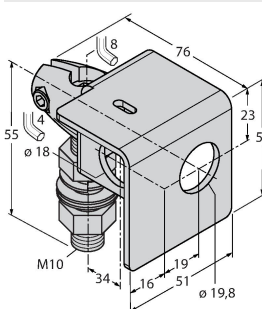
Accessories

SMB18A 3033200



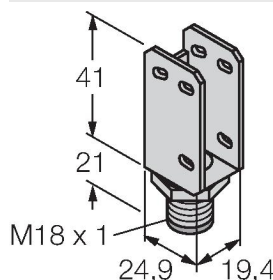
Mounting bracket, rectangular,
stainless steel, for sensors with 18
mm thread

SMB18AFAM10 3012558



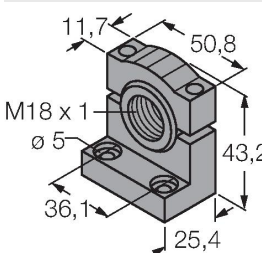
Mounting bracket, material VA
1.4401, for M10 x 1.5 thread, thread
length 18 mm

SMBQS18A 3069721



Mounting bracket, stainless steel, for
18 mm thread

SMB18SF 3052519



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

Accessories

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

