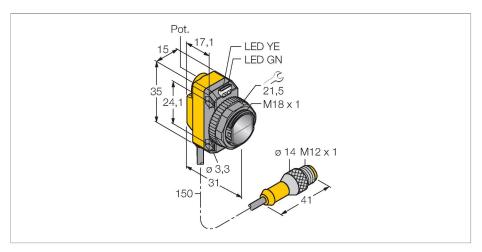


QS18VP6LPQ5 Photoelectric Sensor – Retroreflective Sensor with Polarizing Filter



Technical data

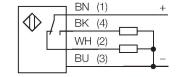
Туре	QS18VP6LPQ5		
ID	3063188		
Optical data			
Function	Retroreflective Sensor		
Operating mode	Polarized		
Reflector included in delivery	no		
Light type	Red polarized		
Wavelength	630 nm		
Range	503500 mm		
Electrical data			
Operating voltage	1030 VDC		
Residual ripple	< 10 % U _{ss}		
DC rated operational current	≤ 100 mA		
Short-circuit protection	yes		
Reverse polarity protection	yes		
Output function	NO/NC, PNP		
Current output	100 mA		
Switching frequency	≤ 800 Hz		
Readiness delay	≤ 100 ms		
Response time typical	< 0.6 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, Acrylic		

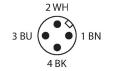


Features

- Cable with male end, M12 × 1, 4-pin, PVC, 150 mm
- ■Protection class IP67
- ■LED all-round visible
- Sensitivity adjusted via potentiometer
- Operating voltage: 10...30 VDC
- ■PNP switching output, changeover

Wiring diagram





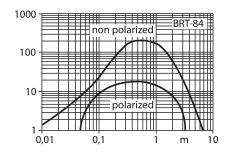
Functional principle

Retroreflective sensors have emitter and receiver circuitry 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 detected when it interrupts this beam. Retroreflective sensors feature some of the advantages of opposed mode sensors, such as good contrast and high excess gain. Furthermore, only one device has to be installed and wired. Devices without polarizing filter have a smaller sensing range and are more susceptible to disturbances caused by shiny objects.

Technical data

Electrical connection	Cable with connector, M12 × 1, 0.15 m, PVC
Number of cores	4
Ambient temperature	-20+70 °C
Protection class	IP67
Power-on indication	LED, Green
Switching state	LED, Yellow
Error indication	LED, green, Flashing
Excess gain indication	LED, yellow, flashing
Tests/approvals	
Approvals	CE, cURus

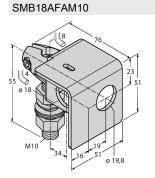
Excess gain curve Excess gain in relation to the distance (polarized)



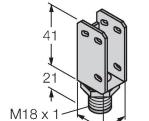
Accessories

SMB18A 0 18.5 0 4.6 R 24.2 26 0 4.6 0 4.6

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



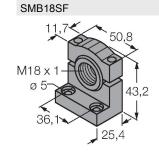
3012558 Mounting bracket, material VA 1.4401, for M10 x 1.5 thread, thread length 18 mm



24,9

Mounting bracket, stainless steel, for 18 mm thread

3069721



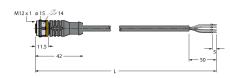
Mounting bracket, PBT black, for sensors with 18 mm thread, rotatable

3052519

Accessories

SMBQS18A

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



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	Туре	ID	
0 15 M12x1 26.5 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

