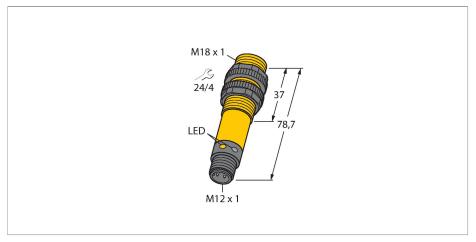


S18SN6LQ Photoelectric Sensor – Retroreflective Sensor



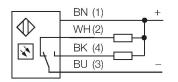
Technical data

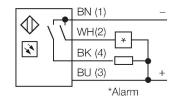
Туре	S18SN6LQ		
ID	3029511		
Optical data			
Function	Retroreflective Sensor		
Operating mode	Unpolarized		
Reflector included in delivery	no		
Light type	IR		
Wavelength	950 nm		
Range	502000 mm		
Electrical data			
Operating voltage	1030 VDC		
No-load current	≤ 25 mA		
Short-circuit protection	yes / Cyclic		
Reverse polarity protection	yes		
Output function	Connection programmable, NPN		
Switching frequency	≤ 160 Hz		
Readiness delay	≤ 100 ms		
Response time typical	< 3 ms		
Overcurrent release	> 220 mA		
Mechanical data			
Design	Tube, S18		
Dimensions	Ø 18 x 78.7 mm		
Housing material	Plastic, Thermoplastic material		
Lens	plastic, Acrylic		
Electrical connection	Connector, M12 × 1, PVC		
Number of cores	4		
Ambient temperature	-40+70 °C		

Features

- ■M12 × 1 male connector, 4-pin
- Protection classes IP67/IP69K
- ■Ambient temperature: -40 °C...+70 °C
- Selectable light/dark operation or light operation with alarm function
- Operating voltage: 10...30 VDC
- ■NPN switching output, changeover

Wiring diagram





Functional principle

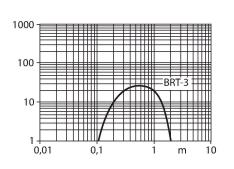
Retro-reflective sensors incorporate emitter and receiver in a single compact housing. The light beam of the emitter is directed towards a reflector which returns the light back to the receiver. An object is detected when it interrupts this beam. Retro-reflective sensors have a high function gain and good contrast performance. Further it is merely required to install and wire a single device.

Excess gain curve

Excess gain in relation to the distance

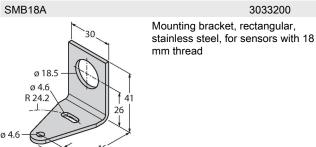
Technical data

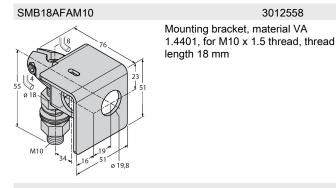
Protection class	IP67 IP69	
Special features	Encapsulated Wash down	
Power-on indication	LED, Green	
Switching state	LED, Yellow	
Error indication	LED, green, Flashing	
Excess gain indication	LED	
Alarm display	LED yellow Flashing	
Tests/approvals		
Approvals	CE, UL, CSA	

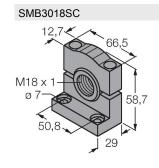


Accessories

SMB18A 3033200 Mounting bracket, rectangular, stainless steel, for sensors with 18 mm thread

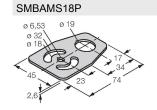






Mounting bracket, PTB black, for sensors with 18 mm thread

3053952



3073134 Mounting bracket, stainless steel, for sensors with 18 mm thread

Accessories

Dimension drawing	Туре	ID	
M12x1 o15 /2 14	RKC4.4T-2/TEL	6625013	Connection cable, female M12, straight, 4-pin, cable length: 2 m, sheath material: PVC, black; cULus approval;



ıt, other cable lengths and qualities available, see www.turck.com

Dimension drawing	Туре	ID	
0 15 M12 x 1 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

