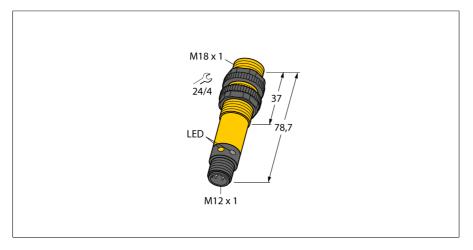


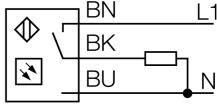
# Photoelectric Sensor Retroreflective Sensor with Polarizing Filter S18RW3LPQ3





- 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

## 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

100			
10		BRT-3	
1 0,01	0,1	1	m 10

Туре	S18RW3LPQ3
ID	3036872
Optical data	
Function	Retroreflective Sensor
Operating mode	Polarized
Reflector included in delivery	no
Light type	Red polarized
Wavelength	680 nm
Range	502000 mm
Electrical data	
Operating voltage U <sub>B</sub>	20250VAC
AC rated operational current	≤ 200 mA
Output function	Dark operation, Relay output
Switching frequency	≤ 40 Hz
Readiness delay	≤ 100 ms
Response time typical	< 16 ms
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	5

-40...+70 °C

Encapsulated Wash down LED, Green

LED, Yellow

CE, UL, CSA

IP69

LED

Ambient temperature

Protection class

Special features

Power-on indication
Switching state

Excess gain indication

Tests/approvals Approvals



## **Accessories**

Type code	Ident no.		Dimension drawing
SMB18A	3033200	Mounting bracket, rectangular, stainless steel, for sensors with 18 mm thread	0 18.5 0 4.6 0 4.6 0 4.6
SMB18AFAM10	3012558	Mounting bracket, material VA 1.4401, for M10 x 1.5 thread, thread length 18 mm	M10 34 16 51 e 19,8
SMB3018SC	3053952	Mounting bracket, PTB black, for sensors with 18 mm thread	12.7
			M18 x 1 9 7 50.8 28
SMBAMS18P	3073134	Mounting bracket, stainless steel, for sensors with 18 mm thread	08.53 0 19 0 22 0 23 17 44 2.8

## **Function accessories**

Type code	Ident no.		Dimension drawing
BRT-3	3016164	Round reflector, reflection coefficient 1.0, material acrylic, ambient temperature -20+60 °C	Ø 5.2 [0.21] 7 [0.28]