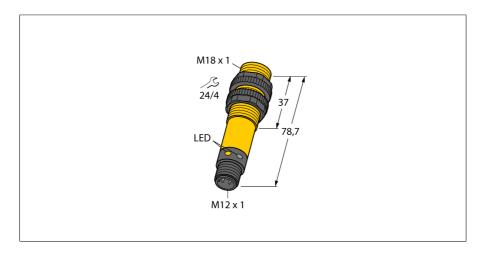


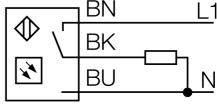
Photoelectric Sensor Retroreflective Sensor S18RW3LQ3





- 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

1000 -												
100 -												
10 -					/	-	\	$\overline{}$	RT	-3		
1				/								
0	,01		0	,1				1	r	n	 1	0

Туре	S18RW3LQ3				
ID	3036870				
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 U _B	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				
Ambient temperature	-40+70 °C				
Protection class	IP69				
Special features	Encapsulated				
	Wash down				

LED, Green

LED, Yellow

CE, UL, CSA

LED

Power-on indication

Excess gain indication

Switching state

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] Ø 81 [3.19]