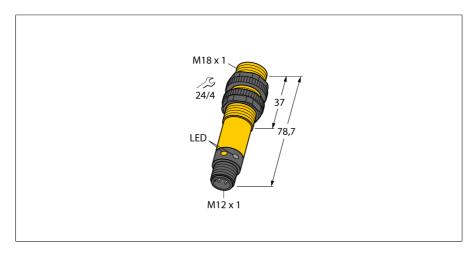


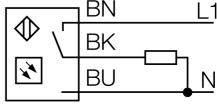
Photoelectric Sensor Opposed Mode Sensor (Receiver) S18AW3RQ3





- 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

Opposed mode sensors consist of an emitter and receiver. They are installed opposite each other so that the light from the emitter is aimed directly at the receiver. When an object interrupts or weakens the light beam, the sensor switches. Opposed mode sensors are the most reliable photoelectric sensors for detection of opaque targets. An excellent contrast between light and dark conditions and an extremly high excess gain are typical of this sensing mode, thus allowing operation over larger distances and under difficult conditions.

Excess gain curve

Excess gain in relation to the distance

Туре	S18AW3RQ3	
ID	3036882	
Optical data		
Function	Opposed mode sensor	
Operating mode	Receiver	
Range	020000 mm	
Electrical data		
Operating voltage U _B	20250VAC	
AC rated operational current	≤ 200 mA	
Output function	Light 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, Polycarbonate	
Electrical connection	Connector, M12 × 1, PVC	
Number of cores	5	
Ambient temperature	-40+70 °C	
Protection class	IP67	
	IP69	
Special features	Encapsulated	
De la constantination	Wash down	
Power-on indication	LED, Green	
Switching state	LED, Yellow	
Excess gain indication	LED	
Tests/approvals		
Approvals	CE, UL, CSA	
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Accessories

Type code	Ident no.		Dimension drawing
SMB18A	3033200	Mounting bracket, rectangular, stainless steel, for sensors with 18 mm thread	018.5 04.6 R 24.2 04.6
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 66,5 M18 x 1 9 7 50,8
SMBAMS18P	3073134	Mounting bracket, stainless steel, for sensors with 18 mm thread	0 6.63 0 19 0 22 0 19 0 19 0 19 0 19 0 19 0 19