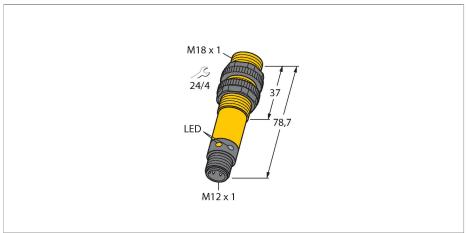
S18AW3LQ Photoelectric Sensor – Retroreflective Sensor





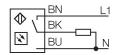
Туре	S18AW3LQ
ID	3029826
Optical data	
Function	Retroreflective Sensor
Operating mode	Unpolarized
Reflector included in delivery	no
Light type	IR
Wavelength	950 nm
Range	502000 mm
Electrical data	
Operating voltage	20250 VAC
AC rated operational current	≤ 200 mA
Output function	Light operation, Relay 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, Acrylic
Electrical connection	Connector, 1/2", PVC
Number of cores	5
Ambient temperature	-40+70 °C
Protection class	IP67 IP69
Special features	Encapsulated Wash down



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

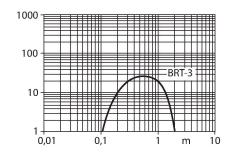
Wiring diagram



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 we are single device.

Excess gain curve
Excess gain in relation to the distance



Technical data

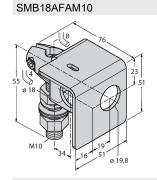
Power-on indication	LED, Green
Switching state	LED, Yellow
Excess gain indication	LED
Tests/approvals	
Approvals	CE, UL, CSA

Accessories

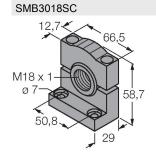
SMB18A Ø 18.5 Ø 4.6 R 24.2 Ø 4.6 A 46

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

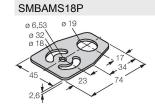
3033200



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

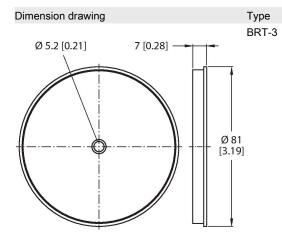


3053952 Mounting bracket, PTB black, for sensors with 18 mm thread



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

Accessories



ID 3016164

Round reflector, reflection coefficient 1.0, material acrylic, ambient temperature -20...+60 °C