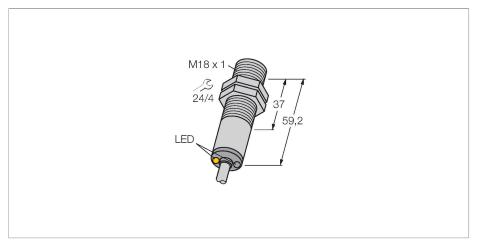


M18SN6LP Photoelectric Sensor – Retroreflective Sensor with Polarizing Filter



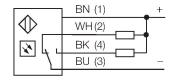


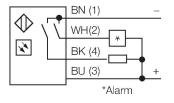
Technical data

Туре	M18SN6LP
ID	3048656
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	1030 VDC
No-load current	≤ 30 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, M18
Dimensions	Ø 18 x 59.2 mm
Housing material	Metal, Stainless steel
Lens	plastic, Acrylic
Electrical connection	Cable, 2 m, PVC
Number of cores	4

Features

- Cable, 2 m
- ■Protection class IP67
- ■Ambient temperature: -40...+70 °C
- Metal housing
- Selectable light/dark operation or light operation with alarm function
- Operating voltage: 10...30 VDC
- ■NPN switching output, changeover
- Wiring diagram





Functional principle

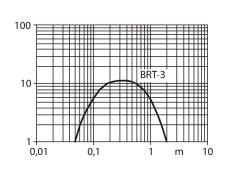
Retro-reflective sensors incorporate emitter and receiver in a single compact housing. The light beam of the emitter is directed towards a reflector which returns the light back to the receiver. An object is detected when it interrupts this beam. Retro-reflective sensors have a high function gain and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



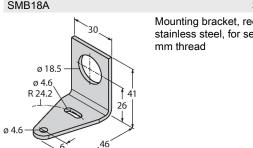
Technical data

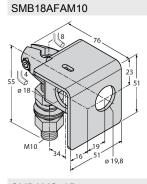
Core cross-section	0.5 mm ²
Ambient temperature	-40+70 °C
Protection class	IP69
Special features	Chemical-resistant Encapsulated Wash down
Power-on indication	LED, Green
Switching state	LED, Yellow
Error indication	LED, green, Flashing
Excess gain indication	LED
Alarm display	LED yellow Flashing
Tests/approvals	
Approvals	CE



Accessories

SMB18A 3033200 Mounting bracket, rectangular, stainless steel, for sensors with 18 mm thread ø 18.5

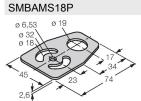




3012558 Mounting bracket, material VA 1.4401, for M10 x 1.5 thread, thread length 18 mm



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



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

3073134



Accessories

