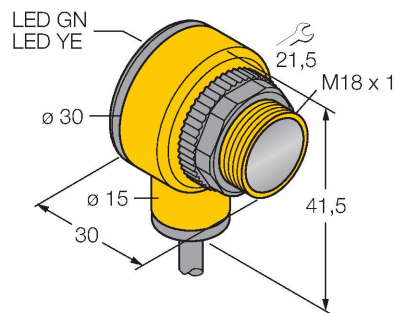


# T18RP6LP

## Photoelectric Sensor – Retroreflective Sensor with Polarizing Filter



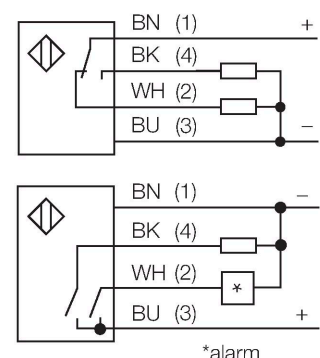
### Technical data

Type	T18RP6LP
ID no.	3044386
<b>Optical data</b>	
Function	Retroreflective sensor with polarizing filter
Reflector included in delivery	no
Light type	Red polarized
Wavelength	680 nm
Range	50...2000 mm
<b>Electrical data</b>	
Operating voltage	10...30 VDC
No-load current	≤ 30 mA
Short-circuit protection	yes / Cyclic
Reverse polarity protection	yes
Output function	Connection programmable, PNP
Switching frequency	≤ 160 Hz
Overcurrent release	> 220 mA
<b>Mechanical data</b>	
Design	Rectangular with thread, T18
Dimensions	30 x 30 x 41.5 mm
Housing material	Plastic, PBT
Lens	plastic, Acrylic
Electrical connection	Cable, 2 m, PVC
Number of cores	4
Core cross-section	0.5 mm <sup>2</sup>
Ambient temperature	-40...+70 °C
Protection class	IP67

### Features

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

### Wiring diagram



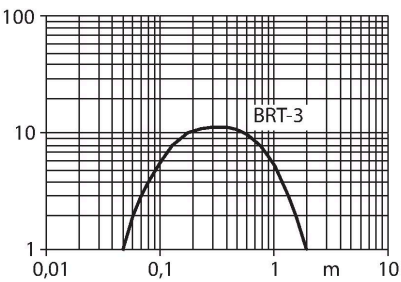
### Functional principle

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

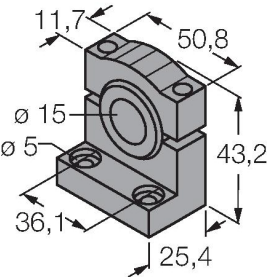
Special features	Wash down
Power-on indication	LED, Green
Switching state	LED, Yellow
Error indication	LED, green, Flashing
Alarm display	LED yellow Flashing
Tests/approvals	
Approvals	CE, UL, CSA



Accessories

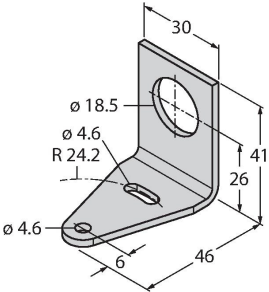
SMB1815SF 3053279

Mounting bracket, PBT black, for PICO-GUARD points



SMB18A 3033200

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



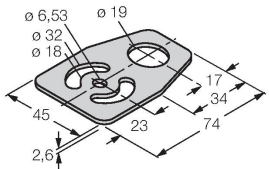
SMB18FM 3079421

mounting bracket, black, M22 x1.5 mm, male thread, female thread M18 x 1, for sensors with 18 mm thread



SMBAMS18P 3073134

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



Accessories

Dimension drawing Type ID no.

BRT-3

3016164

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

