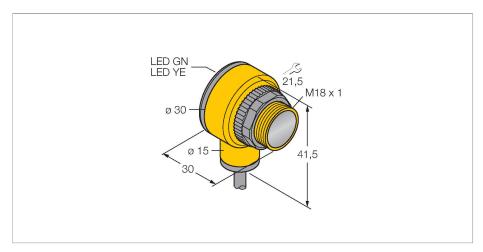


# T18RP6LP Photoelectric Sensor – Retroreflective Sensor with Polarizing Filter



#### Technical data

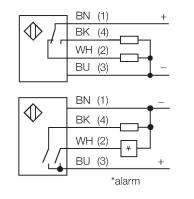
Туре	T18RP6LP
ID	3044386
Optical data	
Function	Retroreflective Sensor
Operating mode	Polarized
Reflector included in delivery	no
Light type	Red polarized
Wavelength	680 nm
Range	502000 mm
Electrical data	
Operating voltage	1030 VDC
No-load current	≤ 30 mA
Short-circuit protection	yes / Cyclic
Reverse polarity protection	yes
Output function	Connection programmable, PNP
Switching frequency	≤ 160 Hz
Readiness delay	≤ 100 ms
Overcurrent release	> 220 mA
Mechanical data	
Design	Tube, 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>



## **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

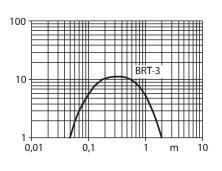
Retro-reflective sensors incorporate emitter and receiver in a single compact housing. The light beam of the emitter is directed towards a reflector which returns the light back to the receiver. An object is detected when it interrupts this beam. Retro-reflective sensors have a high function gain and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

Excess gain curve

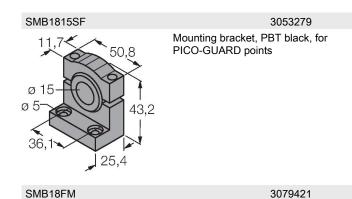
Excess gain in relation to the distance

## Technical data

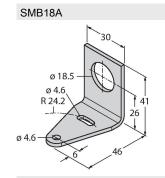
Ambient temperature	-40+70 °C
Protection class	IP67
Special features	Wash down
Power-on indication	LED, Green
Switching state	LED, Yellow
Error indication	LED, green, Flashing
Alarm display	LED yellow Flashing
Tests/approvals	
Approvals	CE, UL, CSA



## Accessories

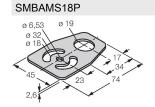


3079421 mounting bracket, black, M22 x1.5 mm, male thread, female thread M18 x 1, for sensors with 18 mm thread



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

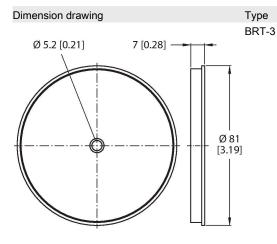
3033200



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