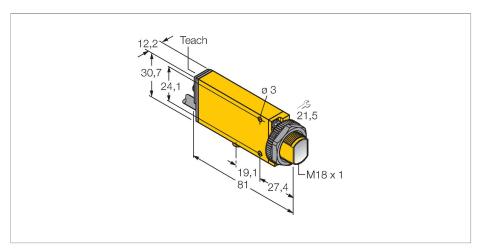
SMU315LP Photoelectric Sensor – Retroreflective Sensor with Polarizing Filter



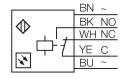
Technical data

Туре	SMU315LP
ID no.	3052574
Optical data	
Function	Retroreflective Sensor
Operating mode	Polarized
Reflector included in delivery	no
Light type	Red polarized
Wavelength	650 nm
Range	03000 mm
Electrical data	
Operating voltage	24240 VDC
Operating voltage	24240 VAC
DC rated operational current	≤ 3000 mA
AC rated operational current	≤ 3000 mA
Output function	NO/NC, Relay output
Switching frequency	0.025 kHz
Switching frequency	≤ 25 Hz
Readiness delay	≤ 0 ms
Response time typical	< 20 ms
Max. DC switching capacity	1 W
Setting option	Potentiometer
Mechanical data	
Design	Rectangular with thread, Mini Beam
Dimensions	Ø 18 x 81 x 12.3 x 30.7 mm
Housing material	Plastic, Thermoplastic material, Yellow
Lens	plastic, Acrylic

Features

- Cable, PVC, 2 m
- Protection class IP67
- Sensitivity adjustable via potentiometer
- ■Alignment indicator
- Operating voltage: 24...240 VDC or 24... 240 VAC
- ■Relay output

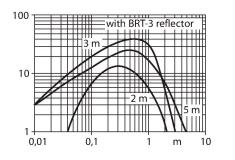
Wiring diagram



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 incorporate some of the advantages of opposed mode sensors (good contrast and high excess gain). Further it is merely required to install and wire a single device. A smaller sensing range and susceptibility of devices without polarisation filter can be of disadvantage when shiny objects have to be detected

Excess gain curve Excess gain in relation to the distance



Technical data

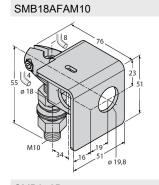
Electrical connection	Cable, 2 m, PVC
Number of cores	5
Core cross-section	0.5 mm ²
Ambient temperature	-20+55 °C
Protection class	IP67
Special features	Encapsulated
Switching state	LED, Red
Excess gain indication	LED, red, flashing
Tests/approvals	
Approvals	CE, cURus, CSA

Accessories

SMB18A Mounting bra stainless stemm thread ### Additional Control of the Contro

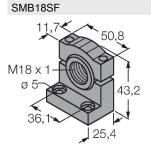
Mounting bracket, rectangular, stainless steel, for sensors with 18

3033200

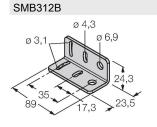


Mounting bracket, material VA 1.4401, for M10 x 1.5 thread, thread length 18 mm

3012558



3052519 Mounting bracket, PBT black, for sensors with 18 mm thread, rotatable



3025519 Mounting bracket, stainless steel, for MINI-BEAM NAMUR



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

TURCK

Accessories

