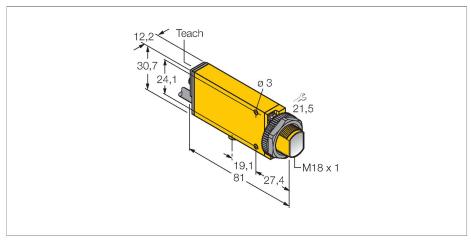


SMU315LV W/30' Photoelectric Sensor – Retroreflective Sensor



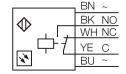
Technical data

Туре	SMU315LV W/30'
ID no.	3062424
Optical data	
Function	Retroreflective Sensor
Operating mode	Unpolarized
Reflector included in delivery	no
Light type	Red
Wavelength	650 nm
Range	05000 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	≤ 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
Electrical connection	Cable, 9 m, PVC
Number of cores	5

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

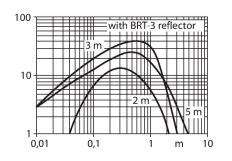
Wiring diagram



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 (type LV)



Technical data

Core cross-section	0.5 mm ²
Ambient temperature	-20+55 °C
Protection class	IP67
Switching state	LED, Red
Excess gain indication	LED, red, flashing
Tests/approvals	
Approvals	CE, cURus, CSA

Accessories

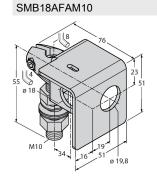
SMB18A 0 18.5 0 4.6 R 24.2 26 0 4.6 46

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

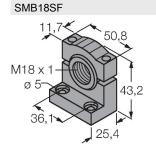
3033200

3052519

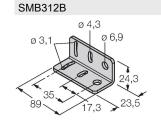
3053952



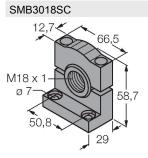
3012558 Mounting bracket, material VA 1.4401, for M10 x 1.5 thread, thread length 18 mm



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



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



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



Accessories

