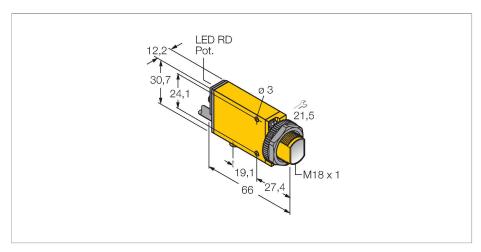


MIAD9LVAG W/30' Photoelectric Sensor – Retroreflective Sensor with Polarizing Filter



Technical data

Туре	MIAD9LVAG W/30'
ID	3038025
Optical data	
Function	Retroreflective Sensor
Operating mode	Polarized
Reflector included in delivery	no
Light type	Red polarized
Wavelength	650 nm
Range	502000 mm
Electrical data	
Operating voltage	515 VDC
Voltage	Nom. 8.2 VDC
Current consumption non-actuated	≤ 1.2 mA
Actuated current consumption	≥ 2.1 mA
Output function	Light operation, NAMUR
Switching frequency	≤ 100 Hz
Readiness delay	≤ 0 ms
Response time typical	< 5 ms
Setting option	Potentiometer
Mechanical data	
Design	Rectangular with thread, Mini Beam
Dimensions	Ø 18 x 66 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	2

Features

- Cable, PVC, 9 m
- Protection class IP67
- Sensitivity adjustable via potentiometer
- Alignment indicator
- Operating voltage: 5...15 VDC (NAMUR)
- NAMUR output in accordance with DIN 19234 (IEC/EN 60947-5-6)

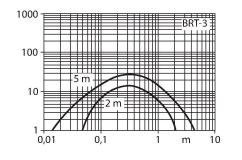
Wiring diagram



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

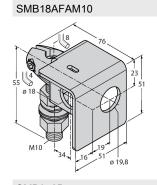
Core cross-section	0.5 mm ²
Ambient temperature	-40+70 °C
Protection class	IP67
Special features	Encapsulated
Switching state	LED, Red
Excess gain indication	LED, red, flashing
Tests/approvals	
Approvals	CE, FM, CSA
Ignition protection category	Ex ia IIC T5 Ga
Ex approval acc. to conformity certificate	FM12ATEX0094X

Accessories

SMB18A
Ø 18.5 Ø 4.6 R 24.2 Ø 4.6

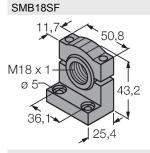
Mounting bracket, rectangular, stainless steel, for sensors with 18 mm thread

3033200

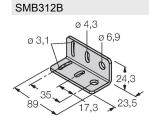


Mounting bracket, material VA 1.4401, for M10 x 1.5 thread, thread length 18 mm

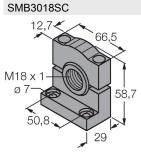
3012558



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



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



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

3053952



Accessories

