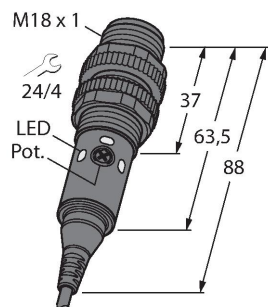


M18-3VPDS-2M

Photoelectric Sensor – Diffuse Mode Sensor



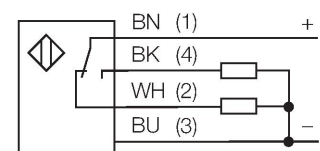
Technical data

Type	M18-3VPDS-2M
ID	3092553
Optical data	
Function	Proximity switch
Operating mode	Diffuse
Light type	Red
Wavelength	624 nm
Range	1...300 mm
Electrical data	
Operating voltage	10...30 VDC
No-load current	≤ 16 mA
Short-circuit protection	yes / Cyclic
Reverse polarity protection	yes
Output function	Complementary contact, PNP
Readiness delay	≤ 100 ms
Response time typical	< 1.5 ms
Setting option	Potentiometer
Mechanical data	
Design	Tube, M18
Dimensions	Ø 18 x 88 mm
Housing material	Metal, Nickel-plated brass
Lens	Acrylic
Electrical connection	Cable, 2 m, PVC
Number of cores	4
Core cross-section	0.5 mm ²
Ambient temperature	-40...+70 °C
Protection class	IP67

Features

- Cable, 2 m
- Protection classes IP67 IP69K
- Ambient temperature: -40...+70 °C
- Operating voltage: 10...30 VDC
- PNP switching output, changeover

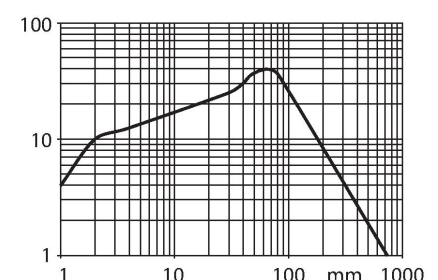
Wiring diagram



Functional principle

Emitter and receiver are incorporated in the same housing. The light reflected by the target is detected and causes the sensor to switch. The switching distance thereby depends largely on the reflectivity of the target.

Excess Gain Curve

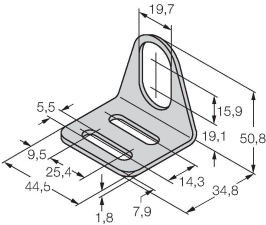


Technical data

	IP69
Special features	Wash down
Power-on indication	LED, Green
Switching state	2 × LEDs, Yellow
Error indication	Flashing
Excess gain indication	LED
Alarm display	Flashing
Tests/approvals	
Approvals	CE, cULus

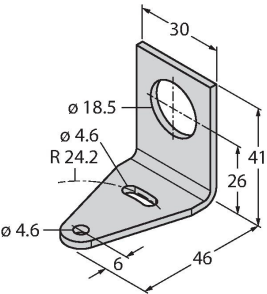
Accessories

MW-186945004



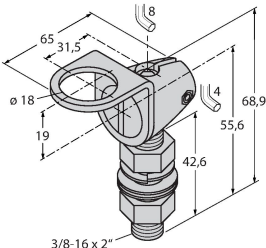
Mounting bracket for threaded barrel sensors; material: Stainless steel A2 1.4301 (AISI 304)

SMB18A3033200



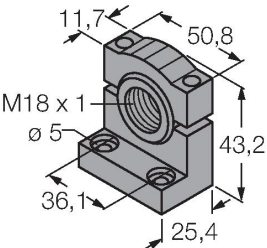
Mounting bracket, rectangular, stainless steel, for sensors with 18 mm thread

SMB18FAM103011184



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

SMB18SF3052519



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

SMBS18-2-13085931