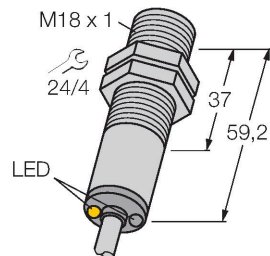


M18SP6D

Photoelectric Sensor – Diffuse Mode Sensor



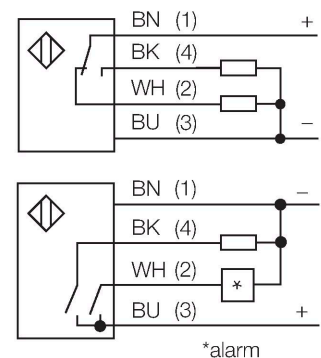
Technical data

Type	M18SP6D
ID no.	3048662
Optical data	
Function	Proximity switch
Operating mode	Diffuse
Light type	IR
Wavelength	880 nm
Range	0...100 mm
Electrical data	
Operating voltage	10...30 VDC
No-load current	≤ 25 mA
Short-circuit protection	yes / Cyclic
Reverse polarity protection	yes
Output function	Connection programmable, PNP
Switching frequency	≤ 160 Hz
Readiness delay	≤ 100 ms
Response time typical	< 3 ms
Overcurrent release	> 220 mA
Mechanical data	
Design	Threaded barrel, M18
Dimensions	Ø 18 x 59.2 mm
Housing material	Metal, Stainless steel
Lens	plastic, Acrylic
Electrical connection	Cable, 2 m, PVC
Number of cores	4
Core cross-section	0.5 mm ²
Ambient temperature	-40...+70 °C

Features

- Cable, 2 m
- Protection class IP67
- Ambient temperature: -40...+70 °C
- Metal housing
- Connecting cable, 2 m
- Stainless steel housing
- Operating voltage: 10...30 VDC
- PNP switching output, changeover

Wiring diagram



Functional principle

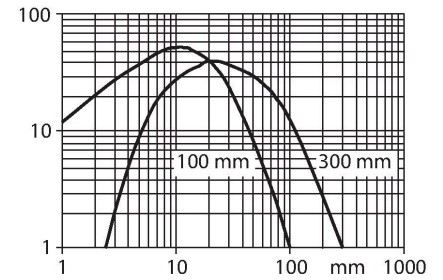
The emitter and receiver are incorporated in a single housing. The light reflection of the target is detected and triggers the sensor to switch. Thus the switching distance largely depends on the reflectivity of the target.

Excess gain curve

Excess gain in relation to the distance

Technical data

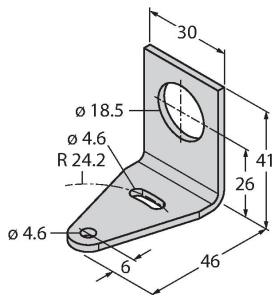
Protection class	IP69
Special features	Chemical-resistant Encapsulated Wash down
Power-on indication	LED, Green
Switching state	LED, Yellow
Error indication	LED, green, Flashing
Excess gain indication	LED
Alarm display	LED yellow Flashing
Tests/approvals	
Approvals	CE



Accessories

SMB18A

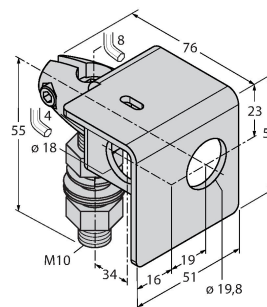
3033200



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

SMB18AFAM10

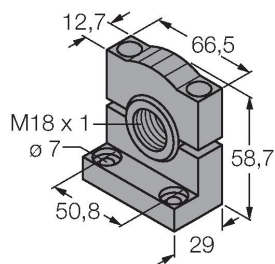
3012558



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

SMB3018SC

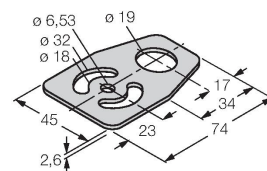
3053952



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

SMBAMS18P

3073134



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