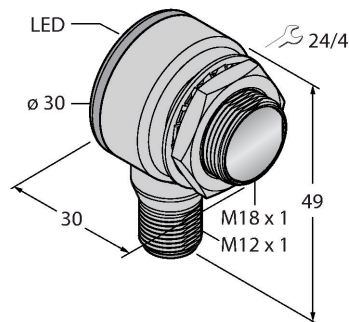


TM18VP6DVQ8

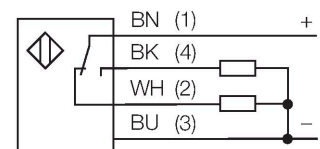
Photoelectric Sensor – Diffuse Mode Sensor



Features

- M12 × 1 male connector, 4-pin
- Protection classes IP67/IP69K
- Ambient temperature: -40 °C...+70 °C
- Metal housing
- 500 mm range
- Operating voltage: 10...30 VDC
- PNP switching output, light and dark operation

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

Type	TM18VP6DVQ8
ID	3018027
Optical data	
Function	Proximity switch
Operating mode	Diffuse
Light type	Red
Wavelength	880 nm
Range	500 mm
Electrical data	
Operating voltage	10...30 VDC
No-load current	≤ 25 mA
Short-circuit protection	yes / Cyclic
Reverse polarity protection	yes
Output function	Complementary contact, PNP
Readiness delay	≤ 100 ms
Response time typical	< 3 ms
Mechanical data	
Design	Tube, TM18
Dimensions	Ø 18 x 30 x 30 x 49 mm
Housing material	Metal, Zinc Die-Cast with Nickel-Plating
Lens	plastic, Acrylic
Electrical connection	Connector, M12 × 1, PVC
Number of cores	4
Ambient temperature	-40...+70 °C
Protection class	IP67 IP69
Special features	Encapsulated Wash down

Technical data

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, UL

Accessories

SMBT18Y

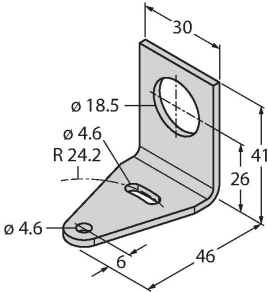
3069554

mounting bracket, rectangular, for sensors with 18 mm thread, 15.3 mm cable feedthrough or M12 x 1 male

SMB18A

3033200

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



SMBAMS18P

3073134

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

Technical drawing of the SMBAMS18P mounting bracket. It is a rectangular bracket with a complex shape. Dimensions include a top width of 45 mm, a base width of 74 mm, and a base height of 2.6 mm. There are two circular holes with diameters of 6.53 mm and 19 mm. A central hole has a diameter of 18 mm. The distance between the two circular holes is 23 mm. The distance from the top edge to the center of the 19 mm hole is 32 mm. The distance from the bottom edge to the center of the 18 mm hole is 17 mm. The distance from the right edge to the center of the 18 mm hole is 34 mm.