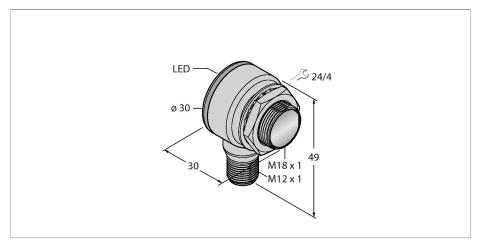
TURCK

TM18AP6DVQ8 Photoelectric Sensor – Opposed Mode Sensor (Receiver)



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 operation
- 18 mm thread
- Die-cast zinc housing

Wiring diagram



Technical data

Туре	TM18AP6DVQ8
ID no.	3018021
Optical data	
Function	Proximity switch
Operating mode	Diffuse
Light type	Red
Wavelength	880 nm
Range	0500 mm
Electrical data	
Operating voltage	1030 VDC
No-load current	≤ 25 mA
Short-circuit protection	yes / Cyclic
Reverse polarity protection	yes
Output function	NO contact, light operation, PNP
Switching frequency	≤ 440 Hz
Readiness delay	≤ 100 ms
Response time typical	< 3 ms
Mechanical data	
Design	Rectangular with thread, 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	Connectors, M12 × 1, PVC
Number of cores	4
Ambient temperature	-40+70 °C
Protection class	IP67 IP69

Functional principle

Opposed mode sensors consist of an emitter and receiver. They are installed opposite each other so that the light from the emitter is aimed directly at the receiver. When an object interrupts or weakens the light beam, the sensor switches. Opposed mode sensors are the most reliable photoelectric sensors for detection of opaque targets. An excellent contrast between light and dark conditions and an extremly high excess gain are typical of this sensing mode, thus allowing operation over larger distances and under difficult conditions. Excess gain curve Excess gain in relation to the distance

1000 100 10 m 100

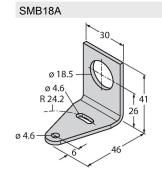


Technical data

Special features	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, UL

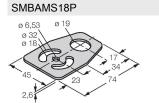
Accessories

SMBT18Y	3069554
	mounting bracket, rectangular, for sensors with 18 mm thread, 15.3 mm cable feedthrough or M12 x 1 male



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

3033200



3073134 Mounting bracket, stainless steel, for sensors with 18 mm thread

Accessories

