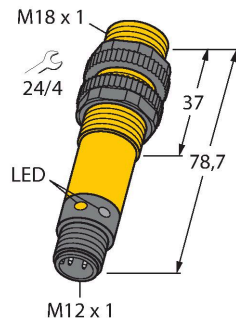


EOIR20M-BS18-6X-H1141

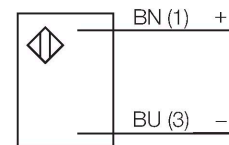
Photoelectric Sensor – Opposed Mode Sensor (Emitter)



Features

- Male, M12 x 1, 5-pin
- Protection classes IP67 / IP69K
- Ambient temperature: -40...+70° C
- Operating voltage: 10...30 VDC

Wiring diagram



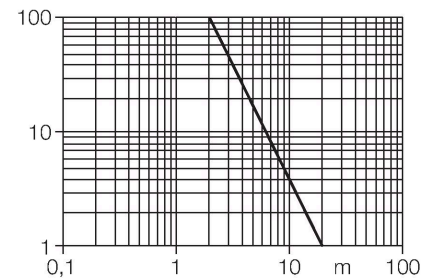
Technical data

Type	EOIR20M-BS18-6X-H1141
ID	7700627
Function	Opposed mode sensor (emitter)
Light type	IR
Wavelength	950 nm
Range	0...20000 mm
Operating voltage	10...30 VDC
Residual ripple	< 10 % U _{ss}
No-load current	≤ 20 mA
Design	Cylinder, threaded, S18
Dimensions	Ø 18 x 78.7 mm
Housing material	Plastic, PBT
Lens	plastic, Lexan
Electrical connection	Connector, M12 × 1
Number of cores	2
Ambient temperature	-40...+70 °C
Protection class	IP67 IP69K
Special features	Wash down
Power-on indication	LED, Green

Functional principle

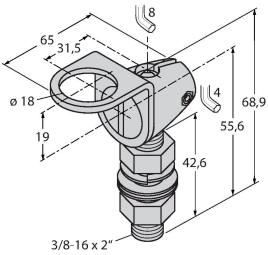
Opposed mode sensors consist of an emitter and a receiver. They are installed opposite to each other whereby the emitted light aims directly at the receiver. When an object interrupts or weakens the light beam, the sensor switches. Opposed mode sensors are the most reliable photoelectric sensors for detection of opaque objects. The high light/dark contrast and the very high excess gain are typical for this function mode and enable operation over large distances and under difficult conditions.

Excess gain curve
Excess gain in relation to distance



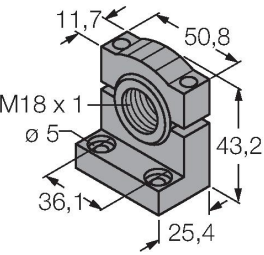
Accessories

TMBM18FA **7700395**



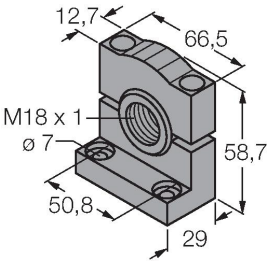
Mounting bracket; material VA 1.4401, for 18 mm thread

TMB18SF **7700396**



Mounting bracket, PBT black, for 10 mm thread

TMB3018SC **7700397**



Mounting bracket, PBT black, for 18 mm thread