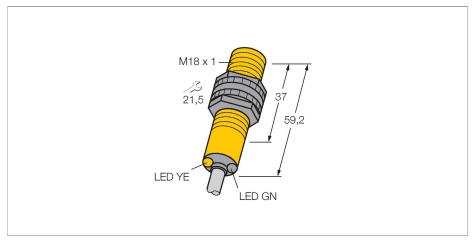
TURCK

RO20M-BS18-VP6X2E Photoelectric Sensor – Opposed Mode Sensor (Receiver)



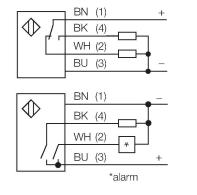
Technical data

Туре	RO20M-BS18-VP6X2E
ID	7700630
Function	Opposed mode sensor (receiver)
Range	020000 mm
Operating voltage	1030 VDC
No-load current	≤ 25 mA
Short-circuit protection	yes / Cyclic
Reverse polarity protection	yes
Output function	Connection programmable, PNP
Switching frequency	≤ 160 Hz
Overcurrent release	> 220 mA
Design	Cylinder, threaded, S18
Dimensions	Ø 18 mm
Housing material	Plastic, PBT
Lens	plastic, Lexan
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
Special features	Wash down
Power-on indication	LED, Green
Switching state	LED, Yellow
Error indication	LED, green, flashing
Alarm display	LED yellow flashing

Features

- Cable, 2 m
- Protection class IP67
- ■Ambient temperature: -40...+70 °C
- Selectable light/dark operation or light operation with alarm function
- Operating voltage: 10...30 VDC
- ■PNP switching output, changeover

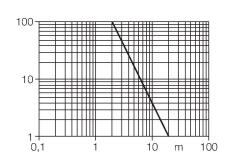
Wiring diagram



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





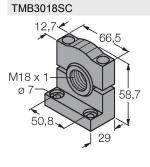
7700396

Accessories

TMBM18FA

7700395 TMB18SF Mounting bracket; material VA 1.4401, for 18 mm thread 50,8 M18 x 1 ø5 36,1 25,4

Mounting bracket, PBT black, for 10 mm thread



Mounting bracket, PBT black, for 18 mm thread

7700397