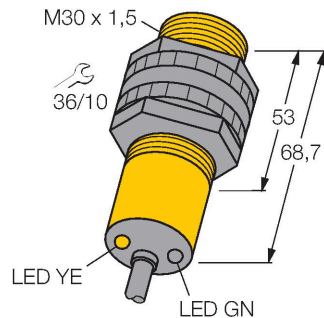


RO60M-BS30-VN6X2E

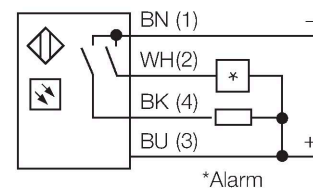
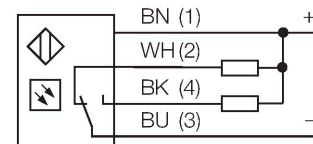
Photoelectric Sensor – Opposed Mode Sensor (Receiver)



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
- NPN switching output, changeover

Wiring diagram



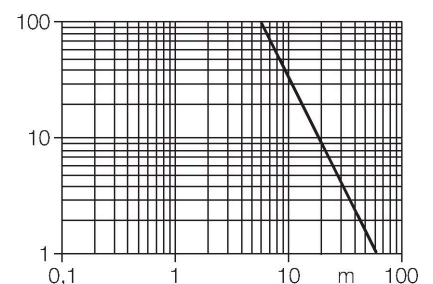
Technical data

Type	RO60M-BS30-VN6X2E
ID	7700780
Function	Opposed mode sensor (receiver)
Range	0...60000 mm
Operating voltage	10...30 VDC
No-load current	≤ 25 mA
Short-circuit protection	yes / Cyclic
Reverse polarity protection	yes
Output function	Connection programmable, NPN
Switching frequency	≤ 160 Hz
Overcurrent release	> 220 mA
Design	Cylinder, threaded, S30
Dimensions	Ø 30 x 68.7 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

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.

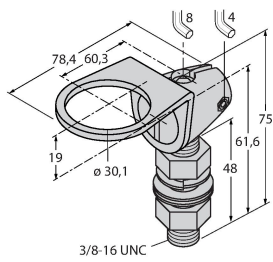
Excess gain curve
Excess gain in relation to distance



Accessories

TMBM30FA

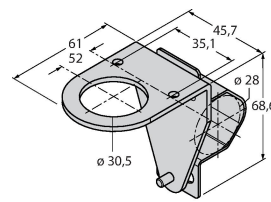
7700398



Mounting bracket, stainless steel, for 30 mm thread

TMB30RAVK

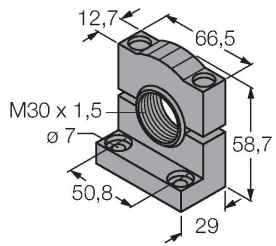
7700399



Mounting bracket, stainless steel, for sensors with 30 mm thread, for cylinders Ø 28 mm

TMB30SC

7700400



Mounting bracket, PBT black; 30 mm thread; with 4 screws M5 x 0.8