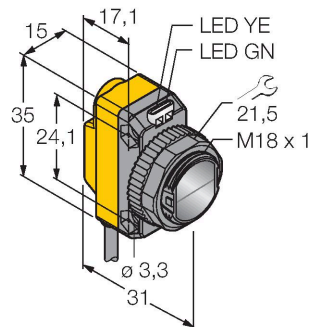


RO20M-BT18-VP6X2

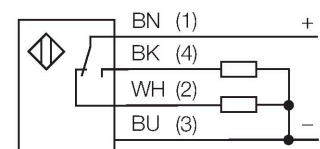
Photoelectric Sensor – Opposed Mode Sensor (Receiver)



Features

- Cable, PVC, 2 m
- Protection class IP67
- LED, all-round visible

Wiring diagram



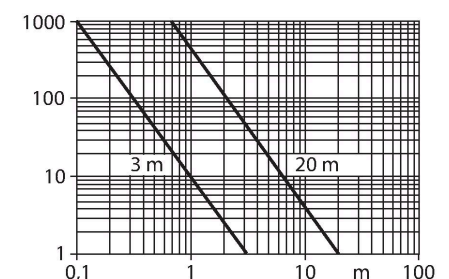
Technical data

Type	RO20M-BT18-VP6X2
ID	7700660
Function	Opposed mode sensor (receiver)
Range	0...20000 mm
Operating voltage	10...30 VDC
Residual ripple	< 10 % U _{ss}
DC rated operational current	≤ 100 mA
Short-circuit protection	yes
Reverse polarity protection	yes
Output function	NO/NC, PNP
Current output	100 mA
Switching frequency	≤ 400 Hz
Design	Rectangular, QS18
Dimensions	31 x 15 x 35 mm
Housing material	Plastic, ABS
Lens	plastic, Acryl
Electrical connection	Cable, 2 m, PVC
Number of cores	4
Core cross-section	0.35 mm ²
Ambient temperature	-20...+70 °C
Protection class	IP67
Power-on indication	LED, Green
Switching state	LED, Yellow
Error indication	LED, green, flashing
Excess gain indication	LED, yellow, flashing
MTTF	2952 years acc. to SN 29500 (Ed. 99) 40 °C

Functional principle

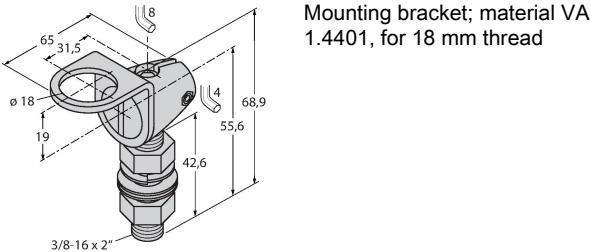
Opposed mode sensors consist of an emitter and a receiver. They are installed opposite to each other whereby the emitted light aims directly at the receiver. When an object interrupts or weakens the light beam, the sensor switches. Opposed mode sensors are the most reliable photoelectric sensors for 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 the distance (type 6EB/RB)

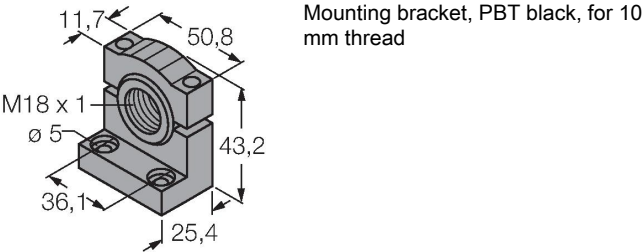


Accessories

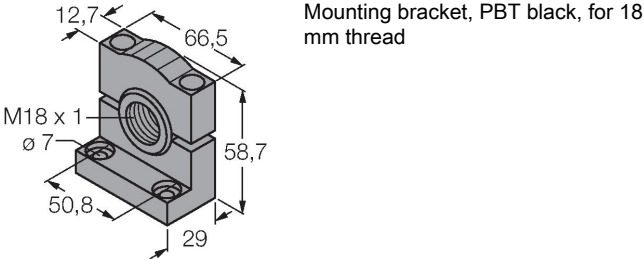
TMBM18FA 7700395



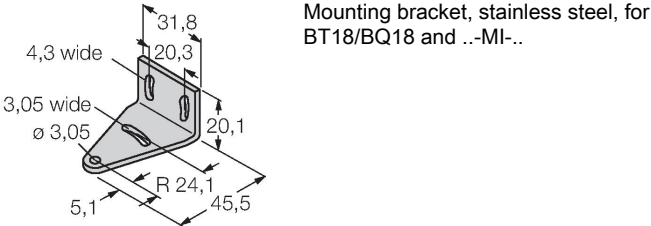
TMB18SF 7700396



TMB3018SC 7700397



TMBMIS 7700401



TMBBT18Y 7700425

