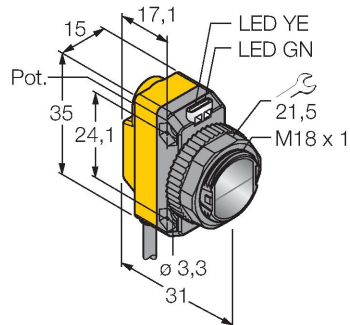


LOP3.5M-BT18-VP6X2

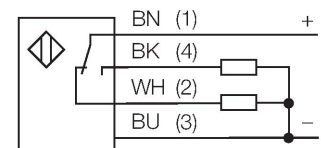
Photoelectric Sensor – Retroreflective Sensor with Polarizing Filter



Features

- Cable, PVC, 2 m
- Protection class IP67
- LED, all-round visible
- Sensitivity adjusted via potentiometer

Wiring diagram



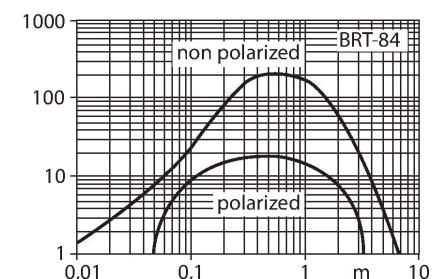
Technical data

Type	LOP3.5M-BT18-VP6X2
ID	7700664
Function	Retroreflective sensor with polarizing filter
Light type	Red
Wavelength	660 nm
Range	50...3500 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	≤ 800 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

Functional principle

Retroreflective sensors have emitter and receiver incorporated in the same housing. The light beam of the emitter is directed towards a reflector which returns the light back to the receiver. A target is captured when it interrupts this beam. Retroreflective sensors feature some of the advantages of opposed mode sensors, such as good contrast and high excess gain. Furthermore, only one device has to be installed and wired. Devices without polarizing filter have a smaller sensing range and are more susceptible to disturbances caused by shiny objects.

Excess gain curve
Excess gain in relation to the distance (polarized)

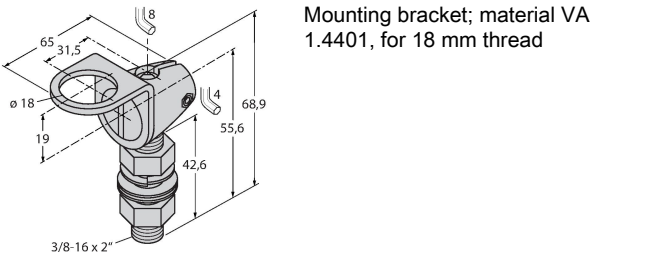


Technical data

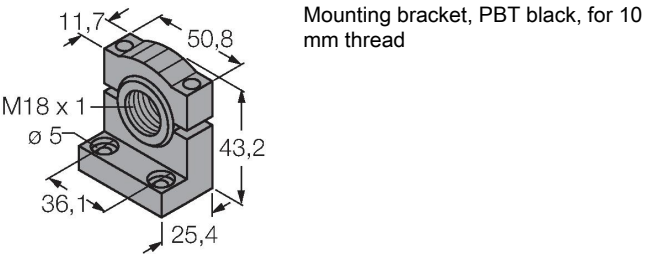
Excess gain indication	LED, yellow, flashing
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Accessories

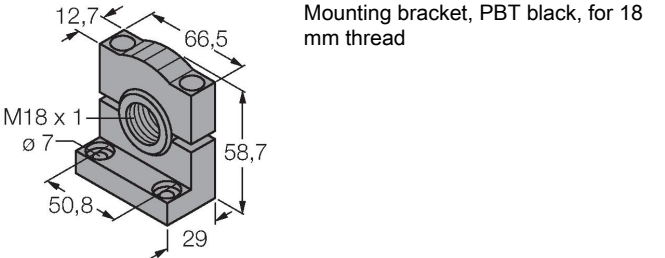
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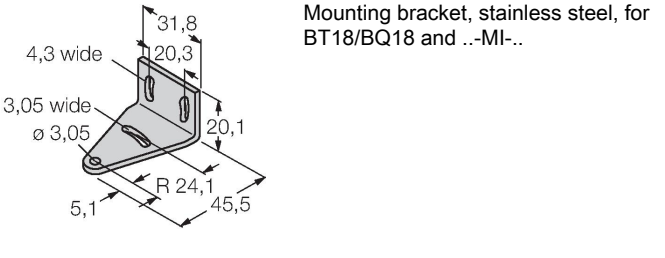
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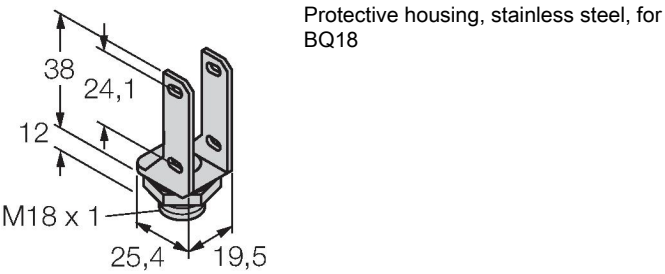
TMB3018SC	7700397
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TMBMIS	7700401
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TMBBT18Y	7700425
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Accessories

Dimension drawing	Type	ID	
	T-BRT-84	7700382	Round reflector, reflection coefficient 1.4, material acrylic, ambient temperature -20 ... +60 °C

