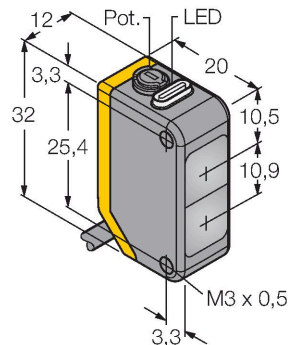


LO6M-Q18-VP6X2

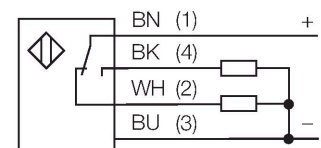
Photoelectric Sensor – Retroreflective Sensor



Features

- Cable, PVC, 2 m
- Protection class IP67
- LED, all-round visible
- Sensitivity adjusted via potentiometer
- Operating voltage: 10...30 VDC
- PNP switching output, changeover

Wiring diagram



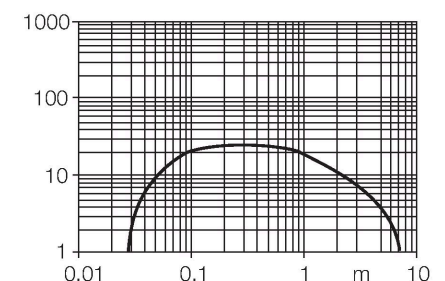
Technical data

Type	LO6M-Q18-VP6X2
ID	7700116
Function	Retroreflective sensor
Light type	Red
Wavelength	660 nm
Range	30...6000 mm
Operating voltage	10...30 VDC
Residual ripple	< 10 % U _{ss}
DC rated operational current	≤ 100 mA
No-load current	≤ 18 mA
Reverse polarity protection	yes
Output function	Complementary contact, PNP
Switching frequency	≤ 600 Hz
Readiness delay	≤ 100 ms
Design	Rectangular, Q20
Dimensions	20 x 12 x 32 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...+60 °C
Protection class	IP67
Power-on indication	LED, Green
Switching state	LED, Yellow
Error indication	LED, green, flashing
Excess gain indication	LED, yellow, 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 detected 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.

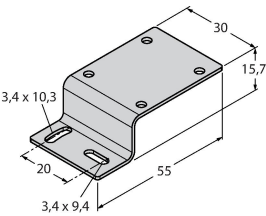
Excess gain curve
Excess gain in relation to distance



Accessories

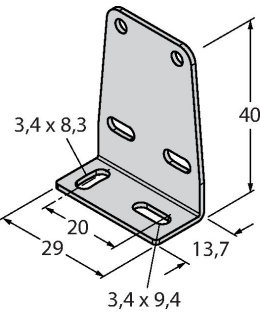
TMBQ18H 7700420

Mounting bracket, stainless steel, for Q18



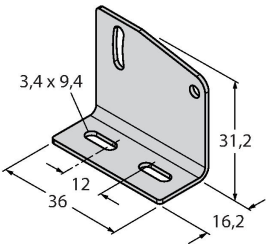
TMBQ18L 7700421

Mounting bracket, stainless steel, for Q18



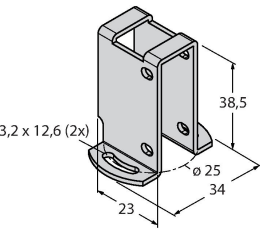
TMBQ18LV 7700422

Mounting bracket, stainless steel, for Q18



TMBQ18U 7700423

Protective housing, stainless steel, for Q18



Accessories

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

