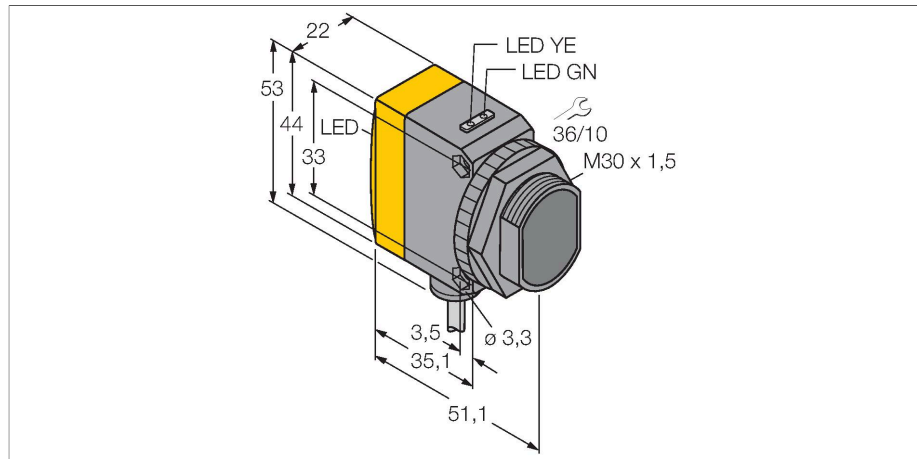


# LOP8M-BT30-VDZ38X3

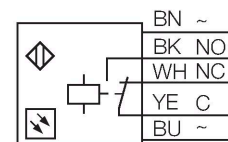
## Photoelectric Sensor – Retroreflective Sensor with Polarizing Filter



### Features

- Cable, PVC, 2 m
- Protection class IP67
- LED, all-round visible
- Sensitivity adjusted via potentiometer
- Operating voltage: 12...250 VDC or 24...250 VAC
- Relay output, changeover

### Wiring diagram



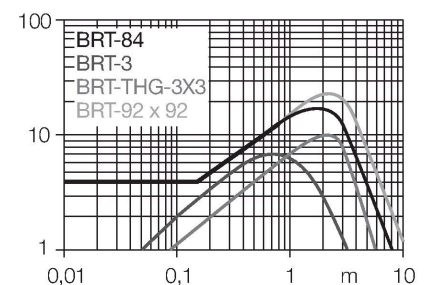
### Technical data

Type	LOP8M-BT30-VDZ38X3
ID	7700760
Function	Retroreflective sensor with polarizing filter
Light type	Red
Wavelength	630 nm
Range	0...8000 mm
Operating voltage	12...250 VDC
Operating voltage	24...250 VAC
No-load current	≤ 35 mA
Output function	NO/NC, Relay output
Switching frequency	≤ 250 Hz
Readiness delay	≤ 100 ms
Design	Rectangular, QS30
Dimensions	51.5 x 22 x 44 mm
Housing material	Plastic, ABS, Yellow
Lens	plastic, Acryl
Electrical connection	Cable, 2 m, PVC
Number of cores	5
Core cross-section	0.5 mm <sup>2</sup>
Ambient temperature	-20...+70 °C
Protection class	IP67
Power-on indication	LED, Green
Switching state	LED, Yellow
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 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 distance



Accessories

TMBM18FA

7700395

Mounting bracket; material VA 1.4401, for 18 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

SMB30A

3032723

Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread

SMBQS30L

3002809

Mounting bracket, stainless steel, for QS30 series

Accessories

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

