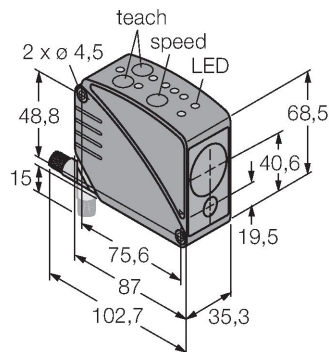


DO2L5M-Q68-2ANP5X5-H1181

Photoelectric Sensor – Diffuse Mode Sensor

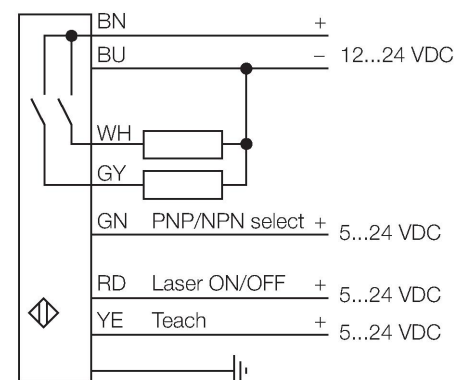
Laser Running Time Meter



Features

- Male, M12 x 1, 8-pin
- Indication of signal intensity
- Protection class IP67
- Measuring range (distance to white object): 5 m
- 3 response times adjustable for switching output
- Operating voltage: 12...24 VDC
- Two independently adjustable switching ranges

Wiring diagram



Functional principle

This distance sensor uses pulsed time-of-flight technology and is thus extremely powerful. The laser pulses one million times per second. The microprocessor records the time required for each pulse to travel to the object and back to the sensor. Every millisecond, one thousand pulse times are averaged and the corresponding value is transferred to the output. The sensor achieves its highest accuracy after a 30-min. warm-up period.

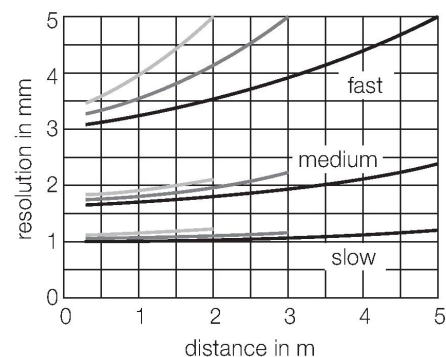
Technical data

Type	DO2L5M-Q68-2ANP5X5-H1181
ID	7700449
Function	Laser sensor, diffuse mode (time-of-flight)
Light type	Red
Wavelength	658 nm
Laser class	▲ 2
Repeatability	1 mm
Range	300...5000 mm
Operating voltage	12...24 VDC
Residual ripple	< 10 % U _{ss}
DC rated operational current	≤ 100 mA
No-load current	≤ 108 mA
Short-circuit protection	yes
Reverse polarity protection	yes
Output function	2 normally open contact, PNP/NPN
Switching frequency	≤ 1000 Hz
Readiness delay	≤ 1 s
Design	Rectangular, LT3
Dimensions	87 x 35.3 x 68.5 mm
Housing material	Plastic, ABS, Black
Lens	plastic, Acryl
Electrical connection	Connector, M12 x 1
Ambient temperature	0...+50 °C
Protection class	IP67
Special features	Laser Teach input

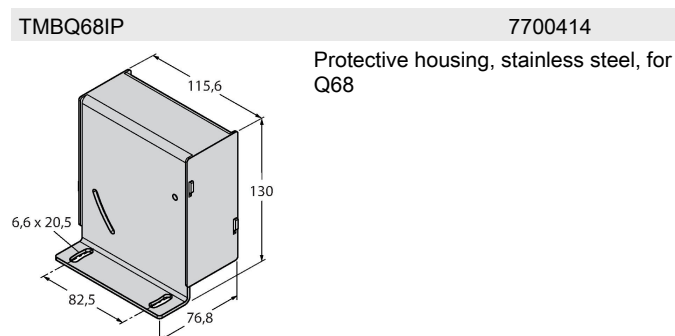
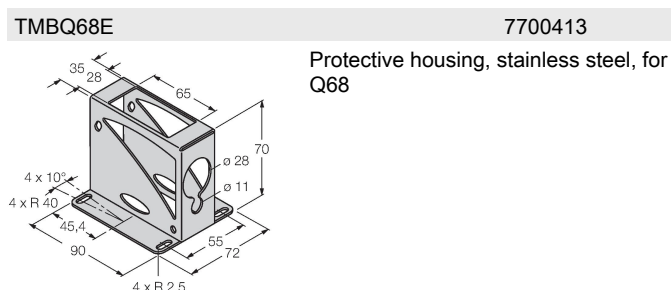
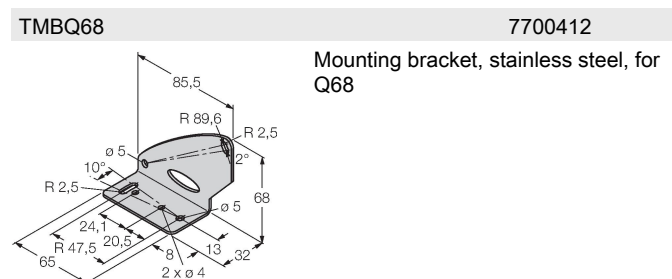
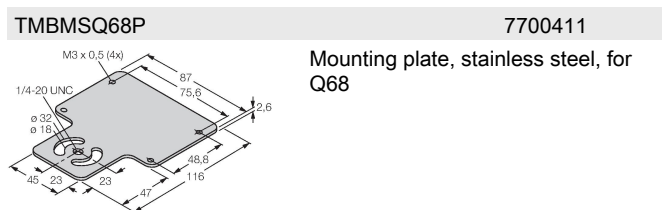
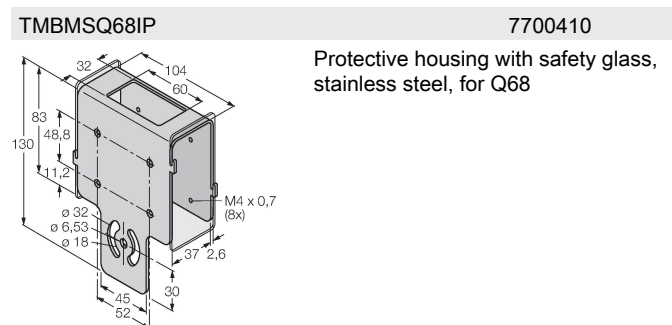
Technical data

Power-on indication	LED, Green
Switching state	LED, Yellow
Error indication	LED
Excess gain indication	LED, red
MTTF	15 years acc. to SN 29500 (Ed. 99) 40 °C

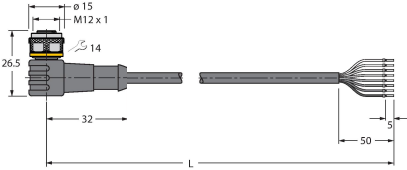
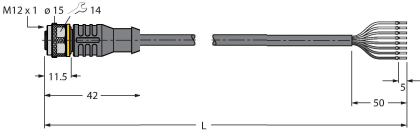
Resolution in Dependence on Distance



Accessories



Accessories

Dimension drawing	Type	ID	
	WKC8T-2/TEL	6625133	Connection cable, M12 female connector, angled, 8-pin, cable length: 2 m, jacket material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com
	RKC8T-2/TEL	6625130	Connection cable, M12 female, straight, 8-pin, cable length: 2 m, jacket material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com