

M12 SERIES

M12 Series

Image



Series Description

Cylindrical Photoelectric Sensor

- Standard 12mm Housing
- Pre-wired or Quick Disconnect
- Self-contained Amplifier

Modes

- Through Beam
- Retroreflective
- Diffuse

Range

- 5.2m
- 1m
- 200mm

	Through-beam	Diffuse	Retroreflective (Polarized)
Operating Range	5.2m (17.06 ft.)	0.2m (0.66 ft.)	1m (3.28 ft.)
Light Emission	880nm Infrared LED		660nm Red LED

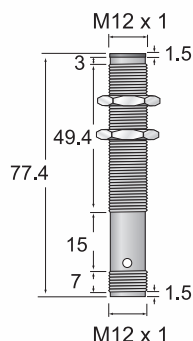
Part Numbers

Emitter	M12B-T5200D-EX9Q4LE		
NPN - Light/Dark	M12B-T5200N-CX9Q4UE	M12B-D0200N-CX9Q4UE	M12B-L1000N-CX6Q4UE-PF
PNP - Light/Dark	M12B-T5200P-CX9Q4UE	M12B-D0200P-CX9Q4UE	M12B-L1000P-CX6Q4UE-PF

Technical Data

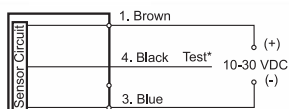
Power Supply	10...30 VDC
Current Consumption	30mA max.
Indicator LEDs	Red LED (output activated)
Voltage Drop	2.5 V or less
Current Load Max	200mA
Response Time	1.5ms
Connection	M12 - Recommended Mating Cable: part # R-FS4TZ-V075 (straight), R-FA4TZ-V075 (right-angle)
Electrical Protection	Short-circuit, Reverse Polarity and Overload Current Protection
Mechanical Protection	IP67 (IEC)
Housing Material	Metal: Nickel-plated Brass; Plastic: PBT
Environment	-25°C to +55°C (-13°F to 131°F) ; 35-85% RH
Storage Temp.	-25°C to + 70°C (-13°F to +158°F)
Reference Standard	IEC 60947-5-2

Dimensions



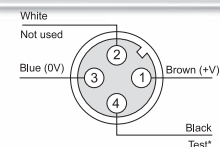
Connections

Emitter

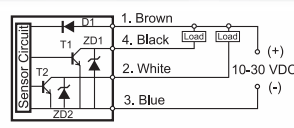


* Connect to 0V to turn off emitter.

Emitter

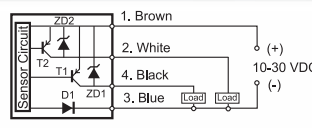


NPN



D1: Reverse polarity protection diode
ZD1, ZD2: Surge absorption zener diode
T1, T2: NPN output transistor

PNP



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ZD1, ZD2: Surge absorption zener diode
T1, T2: PNP output transistor

NPN / PNP

