



**RoHS
Compliant**

Description

Compact photoelectric sensors for industrial presence detection. The range includes diffuse-reflective, retroreflective and through-beam variants, with lead-wire or M8 plug connections. All models provide complementary NPN and PNP outputs and are available in IP65 and IP67 versions.

Features

- Compact body: 13.5mm W x 25mm H x 30mm L
- Sensing distances up to 60cm reflective, 2m retroreflective and 6m through-beam
- 10V DC to 30V DC supply
- Complementary NPN and PNP outputs
- 150 mA maximum output current
- 2 ms maximum response time
- Short-circuit and reverse-polarity protection
- IP65 and IP67 variants
- Lead-wire and M8 plug connection options

Specifications

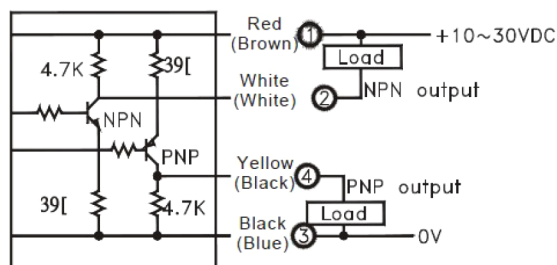
Operating voltage	: 10 V DC to 30 V DC; ripple <20% peak-to-peak
Output method	: Complementary NPN and PNP transistor outputs
Output status	: Normally open; normally closed versions available
Output current	: 150 mA max.
Leakage current	: 0.8 mA max.
Residual voltage	: 0.6 V max.
Protection circuit	: Short-circuit and reverse-polarity protection
Response time	: 2 ms max.
Sensitivity adjustment	: 270° trimmer
Emitter	: Infrared LED
Ambient light immunity	: Sunlight <10,000 lx; incandescent light <5,000 lx
Hysteresis	: 10% of sensing distance max.
Housing material	: PBT housing; polycarbonate lens
Operating temperature / humidity	: -20 °C to +60 °C; 35% to 85% RH
Connection Lead wire	: 4-core, 5mm dia. × 2m; plug: 4-pin M8

Reflective Type

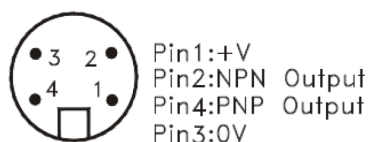
Connection	IP rating	Sensing distance	Current	Weight
Lead wire	IP67	30 cm	30 mA max.	84 g

Output Circuit and Connection Diagram

Lead Wire Type

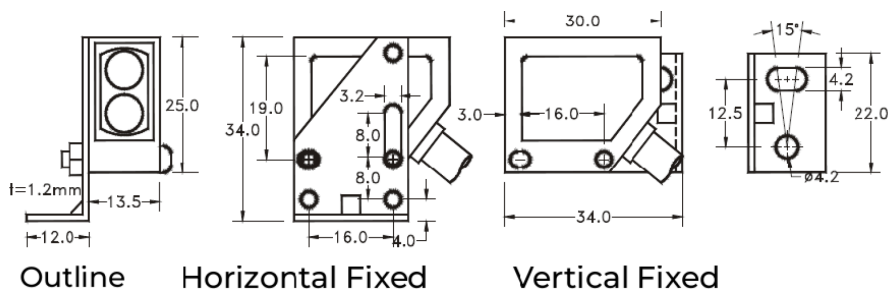


Plug Type

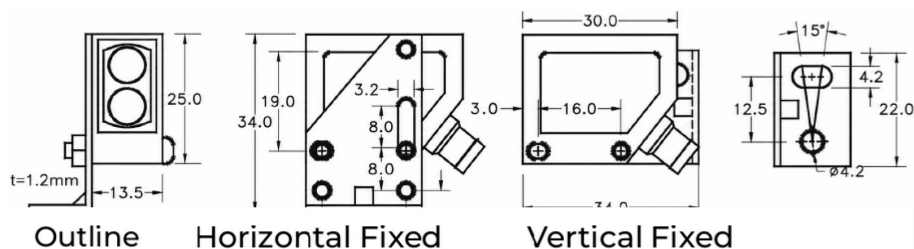


Dimensions

Lead Wire Type



Plug Type - M8 x 1.0



Part Number Table

Description	Part Number
Photoelectric Sensor, 30mA, 10 to 30V DC, 30cm	MP-MR-30XP

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