

Retro-Reflective Sensor Model MCS-655M

GENERAL

The MCS-655M is a photo-reflective NPN open collector photo sensor with Light / Dark activated output that operates up to 1000 Hz. For simplified installation purposes the integral LED aids in the MCS-655M model comes in a robust metal housing with a connection cable, LED status indicator, sensitivity control and mounting nuts.



SPECIFICATIONS

Sensor/detection principle: Photoelectric retro-reflective sensor

Housing length: 2.5" (62.9 mm)

Housing thread diameter: M18 x 1

Sensing range: 2" - 23' (0.05 - 7 m)

Light/Source: Visible red LED

Light spot @ distance 19.7' (6 m): 15.75" (400 mm)

Wave length: 645 nm

Sensitivity adjustment: Turnable Potentiometer over 270°

Supply voltage: 10-30 V DC

Switching output: NPN open collector, Light/dark-switching, Selectable via L/D control wire

Signal voltage NPN HIGH/LOW: Approx. VS / < 1.8 V

Output current max.: ≤ 100 mA

Response time: ≤ 0.5 ms

Switching frequency: 1,000 Hz with light/dark ratio 1:1

Angle of dispersion: Ca. 4.5 °

Ambient Operating temperature: -13 to 131 °F (-25 to 55 °C)

Housing material: Nickel-plated brass

Optics material: PMMA

Cable material: PVC

Connection type: Cable, 4-wire, 6.6' (2 m)

Circuit protection: Inputs and output reverse-polarity protected; outputs overcurrent and short-circuit protected

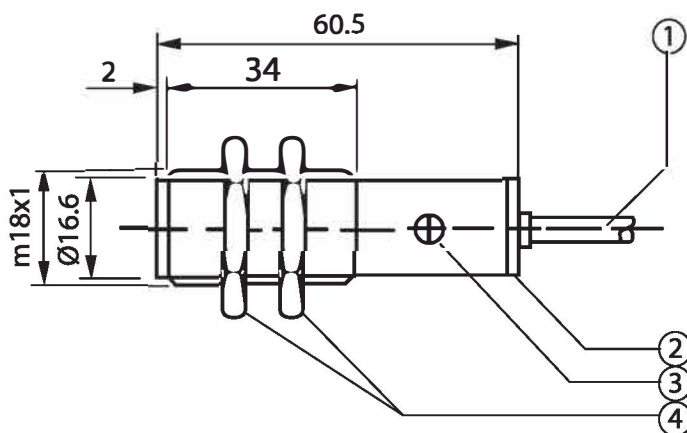
Weight: 3.35 oz (95 g)

Enclosure rating: IP 67

Items supplied: Fastening nuts (2 x), Reflector target, reflection tape

DIMENSIONS

1. Connection Cable
2. LED status indicator
3. Sensitivity control
4. Mounting nuts



CONNECTIONS

Brown - +10-30VDC

Blue - 0V

Black - Output (NPN open collector)

White - Connect to Brown : Light Operate

Connect to Blue : Dark Operate