MCS-655M Retro-Reflective Sensor

Operation Manual

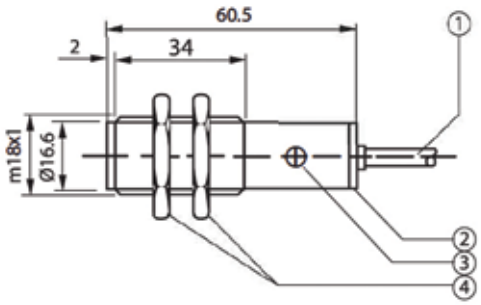
The MCS-655M is a photo-reflective NPN open collector photo sensor with Light / Dark activated output that operates up to 1000 Hz. For simplified installation purposes the integral LED aids in the MCS-655M model comes in a robust metal housing with a connection cable, LED status indicator, sensitivity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

CONNECTIONS

Brown	10-30 VDC (positive)
Blue	0V
Black	Output (NPN Open Collector)
White	Connect to Brown: Light Operate Connect to Blue: Dark Operate

DIMENSIONS

1. Connection Cable
2. LED Status Indicator
3. Sensitivity Control
4. Mounting Nuts



SPECIFICATONS

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: 2.2 oz (62 g)
Enclosure Rating: IP 67
Items Supplied: Fastening nuts (2 x), Reflector target, reflection tape

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