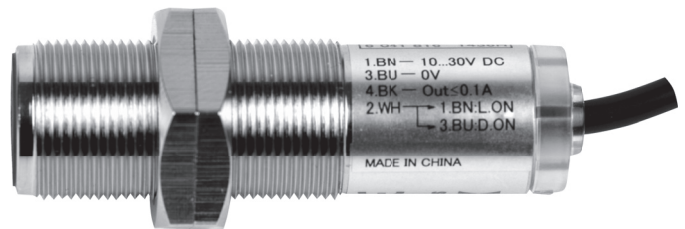


## Retro-Reflective Sensor Model MCS-655M

### 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.

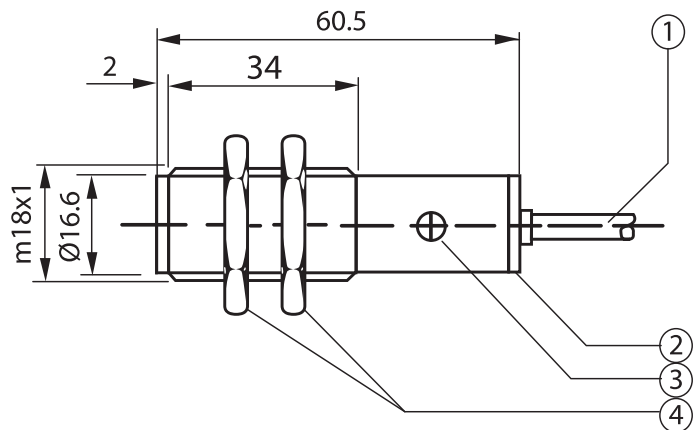


### SPECIFICATIONS

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