

Operation Manual

The MCS-655P 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 alignment. Sensors also provide a sensitivity adjustment pot providing application flexibility. The MCS-655P model comes with a connection cable, LED status indicator, sensitivity control and mounting nuts.

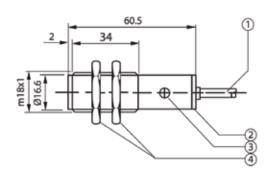


CONNECTIONS

Brown	10-30 VDC (positive)
Blue	OV
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



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, Se-

lectable 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: PBT and PC **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

