

MHTB15-P3267V







Photoelectric sensors MH15V, Photoelectric proximity sensor, Background suppression

Model Name > MHTB15-P3267V

Part No. > 1047160





Illustration may differ

At a glance

- · Long sensing distance as 300 mm
- Stainless steel housing (316L/1.4404) with IP 69K, IP 67 enclosure rating
- Resistant to cleaning agents according to ECOLAB and JohnsonDiversey
- Superior background suppression technology based on OES3 ASIC technology, with second LED emitter
- PinPoint LED with short, highly visible light spot
- · Indicator LED shows active switching output and operating reserve
- · Simple adjustment via potentiometer

Your benefits

- Field-tested, compact, stainless steel IP 69K design of the MH15V reduces downtime and replacement costs
- Photoelectric proximity sensor with best-in-class background suppression reduces product loss and increases throughput
- Shortest M18 housing on the market enables installation in tight spaces, which reduces manufacturing costs
- Light spot visibility and light spot geometry via PinPoint LED technology simplify alignment
- Reliable object detection, even in difficult environments reduces miscount and increases machine throughput
- Flush mounting reduces setup time and prevents obstructions to material flow on conveyor sections







Features

Sensor/detection principle: Photoelectric proximity sensor, Background suppression

Cylindrical, straight Housing design (light emission):

Housing length: 52.9 mm Thread diameter (housing): M18 x 1

Optical axis: axial

3 mm ... 300 mm ¹⁾ Sensing range max.: 3 mm ... 300 mm Sensing range: Type of light: Visible red light PinPoint LED 2) Light source: 650 nm Wave length:

Adjustment: Potentiometer, 270° Light spot size (distance): Ø 7 mm (100 mm)

1) Object with 90 % reflectance (referred to standard white DIN 5033) 2) Average service life of 100,000 h at T_{Λ} = +25 °C

Mechanics/electronics

10 V DC ... 30 ¹⁾
≤ 5 Vpp ²⁾ Supply voltage: Ripple:

Power consumption: **PNP** Output type:

Switching mode: Dark switching

Uv - (< 2,9 V)/ca. 0 V 100 4) Signal voltage PNP HIGH/LOW:

Output current Imax.: $\leq 0.72 \text{ ms}^{5)}$ Response time:

Switching frequency:

Connector M12, 4-pin ⁷⁾ A, C, D Connection type: Circuit protection:::

Ш Protection class: 50 g Weight:

Housing material: Stainless steel, Stainless steel V4A (1.4404, 316L)

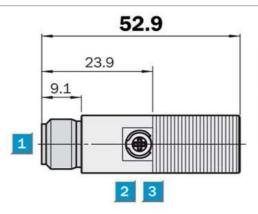
PMMA Optics material: Enclosure rating: IP 69K

-25 ... 55 °C ^{11) 12)} Ambient operating temperature::

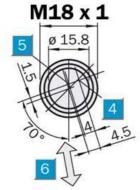
-25 ... 70 °C Ambient storage temperature:

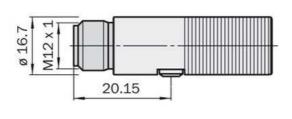
UL File No .: NRKH.E189383 & NRKH7.E189383

¹⁾ Limit values 2) May not exceed or fall short of V tolerances 3) Without load 4) Reduced output current at ambient operating temperatures > 50 °C: IAmax = 50 mA 5) Signal transit time with resistive load 6) With light/dark ratio 1:1 7) With gold plated contact pins 8) A = V connections reverse-polarity protected 9) C = interference 10) suppression D = outputs overcurrent and short-circuit protected 11) Use at higher ambient temperatures reduce the sender LED lifetime +100 °C for 15 minutes

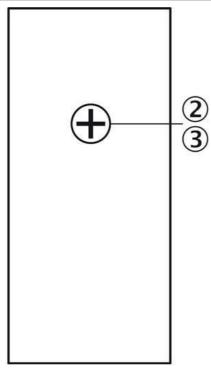


- |1| Connector M12, 4-pin
- |2| Sensing range adjustment: potentiometer, 270°
- |3| Status indicator LED, yellow: Status of received light beam
- |4| Optical axis, sender
- |5| Optical axis, receiver
- |6| Standard direction of the material being scanned



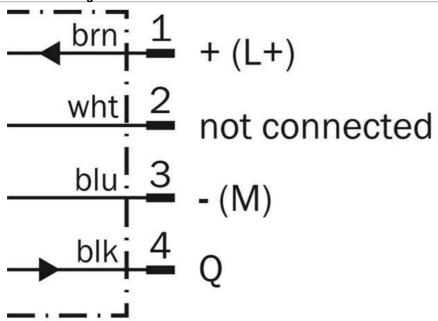


Adjustments possible

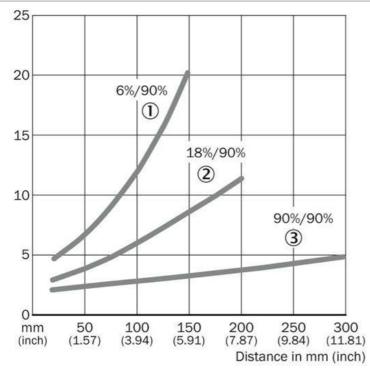


- |2| Sensitivity adjustment 270°
- |3| Yellow LED indicator,-lights continously: Light reception> reserve factor 1,3-blinks: Light recepti on >reserve factor 1,3but light reception>switching thres

Connection diagram



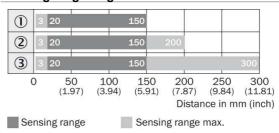
Characteristic curve



Connection type



Sensing range diagram



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