

MHTB15-N3367







Photoelectric sensors MH15, Photoelectric proximity sensor, Background suppression

Model Name > MHTB15-N3367

Part No. > 1046533





Illustration may differ

At a glance

- · Long sensing distance up to 300 mm
- Shortest M18 sensor housing on the market
- Superior background suppression technology based on OES3 ASIC technology, with second LED emitter
- · Indicator LED shows active switching output and operating reserve
- · Simple adjustment via potentiometer
- · Mounting accessories are included

Your benefits

- Photoelectric proximity sensor with best-in-class background suppression, reducing product loss and increasing throughput
- Shortest M18 housing on the market enables installation in tight spaces and reduces manufacturing costs
- Light spot visibility and light spot geometry via PinPoint LED technology simplifies alignment
- Reliable object detection, even in difficult environments reduces miscount and increases machine throughput
- Compatible with many competitor models, making it easy to install and commission
- Flush mounting reduces setup time and prevents obstructions to material flow on conveyor sections



Features

Sensor/detection principle: Photoelectric proximity sensor, Background suppression

Housing design (light emission): Cylindrical, straight

Housing length: 36.8 mm
Thread diameter (housing): M18 x 1
Optical axis: Axial

Sensing range max.:

Sensing range:

3 mm ... 300 mm

Type of light:

Light source:

Visible red light

PinPoint LED

PinPoint LED

Wave length: 650 nm

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_A = +25 °C

Mechanics/electronics

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

Output type: NPN

Switching mode: Light switching Uv/< 2,9 V 100 4) Signal voltage NPN HIGH/LOW: Output current Imax.: Response time:

 $\leq 0.72 \text{ ms}^{5)}$ Switching frequency:

Connector M12, 3-pin A, C, D 7) 8) 9) Connection type:

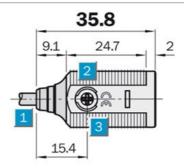
Circuit protection::: Protection class: 7 g Weight: Polarisation filter: Front screen heating:

ABS, Plastic Housing material: Optics material: **PMMA** Enclosure rating: **IP 67** IP 69K

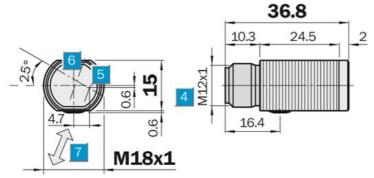
Ambient operating temperature: -25 ... 55 °C -25 ... 70 °C Ambient storage temperature:

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

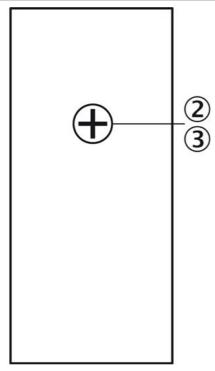
¹⁾ Limit values 2) May not exceed or fall short of V tolerances 3) Without load 4) Reduced output current at ambient operating temperatures > 50 °C: IAmax = 50 mA 5) Signal transit time with resistive load 6) With light/dark ratio 1:1 7) A = V_S connections reverse-polarity protected 8) C = interference suppression 9) D = outputs overcurrent and short-circuit protected



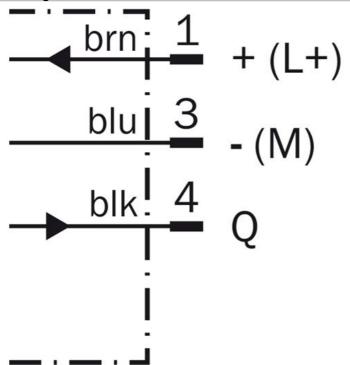
- |1| Connection cable 2 m
- |2| Status indicator LED, yellow: Status of received light beam
- |3| Sensing range adjustment: potentiometer, 270°
- |5| Optical axis sender
- |6| Standard direction of the material being scanned



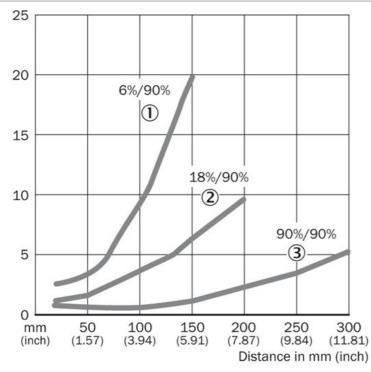
Adjustments possible



- |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



Characteristic curve



Connection type



Sensing range diagram

1	3	20		15	50				4			
2	3	20		15	50	200						
3	3	20		15	50					300		
(0	50 (1.97)			150 5.91)		00 87)	25 (9.8		30		
						Distance in mm (inch)						
Sensing range					Sensing range typ. max.							

- ① Sensing range on black, 6 % remission
- ② Sensing range on gray, 18 % remission
- $\ensuremath{\mathfrak{B}}$ Sensing range on white, 90 % remission

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