

MHT15-N3219







Photoelectric sensors MH15, Photoelectric proximity sensor, energetic

Model Name > MHT15-N3219 Part No. > 1026099





Illustration may differ

At a glance

- · Energetic variant with a long sensing distance
- Sensitivity control via 270° potentiometer
- · Indicator LED with an active switching output and operating reserve
- · Straight or right-angle housing designs available
- 100 mm or 350 mm sensing distances for straight housing; 90 mm or 250 mm (each with 90% remission) for right-angle housings
- · Mounting accessories (M18 nuts and snap ring) are included
- IP 69K-tested housing offers a long service life that withstands harsh environments

Your benefits

- Reliably detects and positions parts without a reflector, saving installation time and costs
- Shortest M18 body on the market, saving installation space
- Flush mounting via snap ring reduces setup time and prevents obstructions to material flow on conveyor systems
- MHT15 is compatible with competitor sensors for easy replacement that saves installation time and costs
- IP 69K-tested housing offers a long service life that withstands harsh environments, reducing maintenance time and costs



Features

Sensor/detection principle: Photoelectric proximity sensor, energetic

Housing design (light emission): Cylindrical, angled

Housing length: 50.3 mm
Thread diameter (housing): M18 x 1
Optical axis: radial

Sensing range max.: 5 mm ... 90 mm

Sensing range: 5 mm ... 75 mm

Type of light: Infrared light
Light source: LED

Wave length: 950 nm

Angle of dispersion: Ca. 5 °

Adjustment: Potentiometer, 270 ° Light spot size (distance): Ø 25 mm (90 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⁾
30 Supply voltage: Ripple:

Power consumption: Output type: NPN

Switching mode: Dark switching Signal voltage NPN HIGH/LOW: Uv/< 2,9 V Output current Imax.: 100

 $\leq 1.25 \text{ ms}^{4)}$ $400^{5)}$ Response time: Switching frequency:

Connector M12, 3-pin A, C, D 6) 7) 8) Connection type:

Circuit protection::: Protection class:

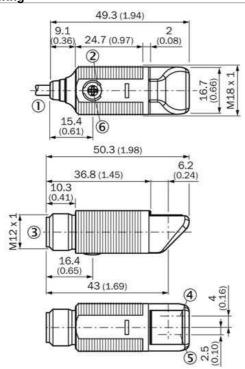
8 g Weight: Housing material: ABS, Plastic Optics material: **PMMA** Enclosure rating: **IP 67** IP 69K

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

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

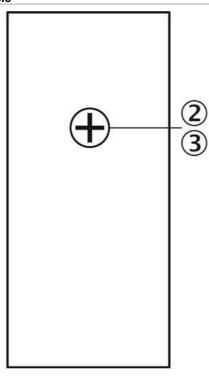
¹⁾ Limit values 2) May not exceed or fall short of V tolerances 3) Without load 4) Signal transit time with resistive load 5) With light/dark ratio 1:1 6) A = V S connections reverse-polarity protected 7) C = interference suppression D = outputs overcurrent and short-circuit protected

Dimensional drawing

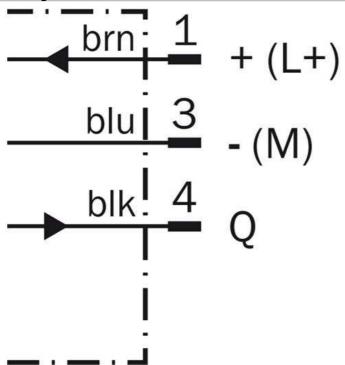


- |1| Connection cable 2 m
- |2| Sensitivity adjustment 270°
- Yellow LED indicator:- lights
 continuously:light reception> reserve factor 1
 .3- blinks: light reception < reserve factor 1.3 but > swit

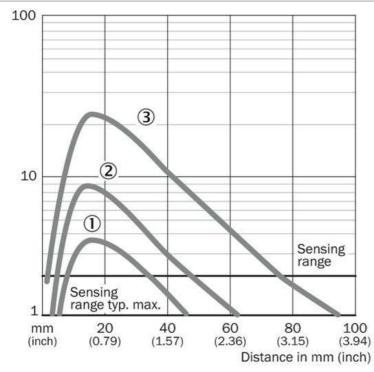
Adjustments possible



- |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



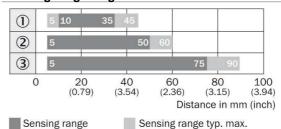
Characteristic curve



Connection type



Sensing range diagram



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

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