

MHL15-N3236V







# Photoelectric sensors MH15V, Photoelectric retro-reflective sensor, Standard optics

**Model Name** > MHL15-N3236V Part No. > 1043812





Illustration may differ

### At a glance

- · Long sensing distance up to 5.0 m with PL80A reflector
- · Polarizing filter for reliable detection of shiny object surfaces
- Stainless steel housing (316L/1.4404)
- Resistant to cleaning agents according to ECOLAB and Johnson Diversey
- IP 69K, IP 67 enclosure rating
- Shortest M18 housing on the market
- Accessories, including stainless steel flush mount and chemical resistance IP69K reflectors, are available

#### Your benefits

- Field-tested, compact, stainless steel IP 69K design of the MH15V reduces downtime and replacement costs
- Long sensing range up to 3.5 m in combination with a reflector (PL80A) makes the MHL15V suitable for a broad range of applications
- 3 mm flat, chemically resistant material of the sensor lens offers a long service life, reducing maintenance time and costs
- · Reliable object detection, even in difficult environments reduces miscount and increases machine throughput
- Short M18 housing with flush mounting fits in tight areas, which saves machine
- ECOLAB and JohnsonDiversey certified MH15V are suitable for hygienic environments, reducing maintenance costs
- Innovative stainless steel mounting accessories provide fast and low-cost installation





#### **Features**

Sensor/detection principle: Photoelectric retro-reflective sensor, Standard optics

Housing design (light emission): Cylindrical, straight

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

Optical axis:

0.035 m ... 5 m <sup>1)</sup> Sensing range max.: 0.035 m ... 3.5 m <sup>2)</sup> Sensing range: Visible red light Type of light:

LED Light source: Wave length: 650 nm Angle of dispersion: Ca. 1.5 °

Light spot size (distance): Ø 80 mm (3.5 m)

#### Mechanics/electronics

Supply voltage:  $10 \lor DC \dots 30^{1}$ Ripple:  $\leq 5 \lor pp^{2}$ 

Power consumption: 30 3)
Output type: NPN

Switching mode:

Signal voltage NPN HIGH/LOW:

Output current Imax.:

Dark switching

Uv/< 2,9 V

100

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

Connection type:

Circuit protection:::

Connector M12, 4-pin

A, C, D

Connector M12, 4-pin

Circuit protection:::

Protection class:

Weight:

50 g

Polarisation filter:

✓

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

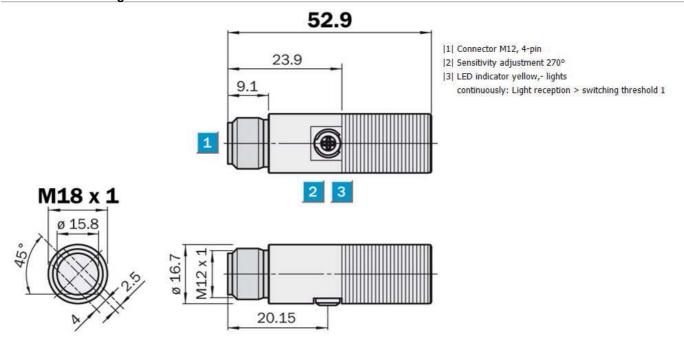
Optics material: PMMA
Enclosure rating: IP 67
IP 68
IP 69K

Ambient operating temperature:: -25 ... 55 °C 10) 11)

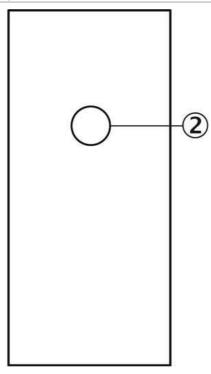
Ambient storage temperature: -25 ... 70 °C

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

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

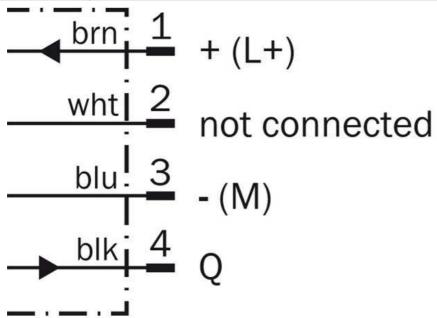


## Adjustments possible

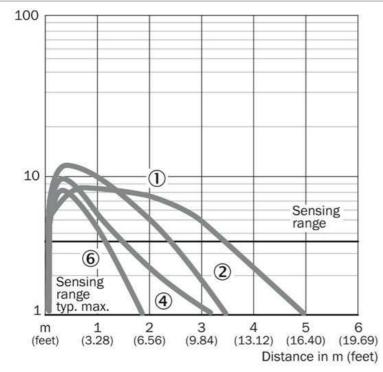


|2| Yellow LED indicator,-lights continously: Light reception> reserve factor 1,5-blinks: Light recepti on >reserve factor 1,5but light reception>switching thres

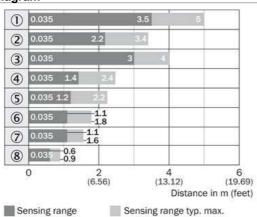
**Connection diagram** 



### Characteristic curve



# Sensing range diagram



### Reflector type

- ① PL80A
- ② P250
- 3 C110
- PL50A/PL40A
- ⑤ PL30A/PL31A
- @ PL20A
- 7 P250CHEM
- ® PL20CHEM

## **Connection type**



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