



Photoelectric sensors MH15V, Photoelectric proximity sensor, energetic

MHT15-N3217V



Model Name > [MHT15-N3217V](#)
Part No. > [1043803](#)



Illustration may differ

At a glance

- Long sensing distance up to 350 mm (90% remission)
- Sensitivity control via 270° potentiometer
- Stainless steel housing (316L/1.4404)
- Resistant to cleaning agents as per ECOLAB and JohnsonDiversey
- IP 69K, IP 67 enclosure rating
- Indicator LED for active switching output and operating reserve
- Accessories available for flush mounting
- Shortest M18 housing on the market

Your benefits

- Field tested, compact, stainless steel IP 69K design of the MH15V reduces downtime and replacement costs
- 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 space
- ECOLAB and JohnsonDiversey certified MH15V sensors are suitable for hygienic environments, reducing maintenance costs
- Innovative stainless steel mounting accessories provide fast and low-cost installation



Features

Sensor/detection principle:	Photoelectric proximity sensor, energetic
Housing design (light emission):	Cylindrical, straight
Housing length:	52.9 mm
Thread diameter (housing):	M18 x 1
Optical axis:	Axial
Sensing range max.:	10 mm ... 100 mm ¹⁾
Sensing range:	10 mm ... 90 mm
Type of light:	Infrared light
Light source:	LED ²⁾
Wave length:	950 nm
Angle of dispersion:	Ca. 4.5 °
Adjustment:	Potentiometer, 270°
Light spot size (distance):	Ø 20 mm (100 mm)

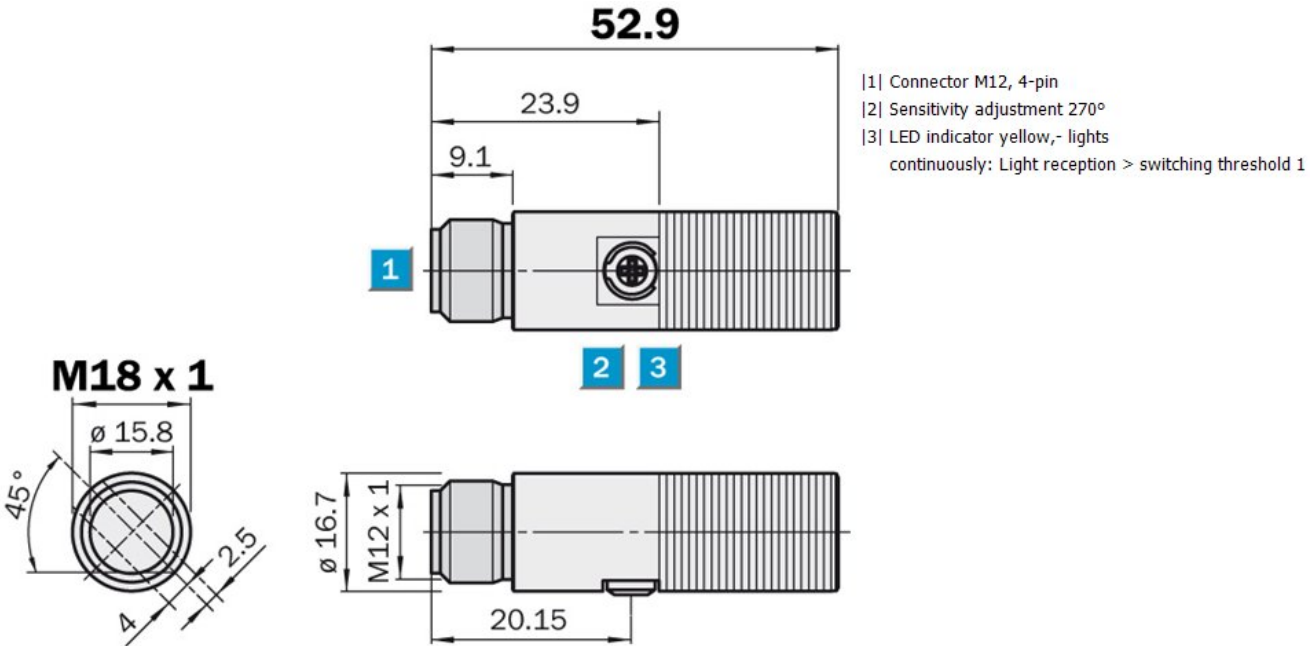
¹⁾ Object with 90 % reflectance (referred to standard white DIN 5033) ²⁾ Average service life of 100,000 h at $T_A = +25\text{ °C}$

Mechanics/electronics

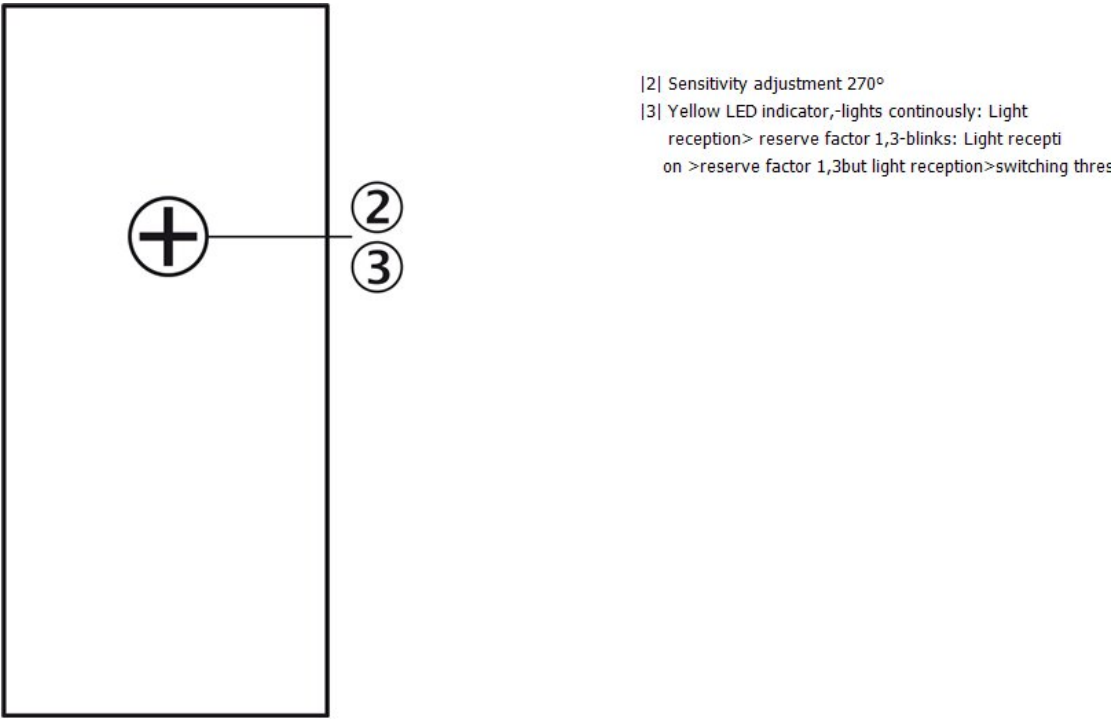
Supply voltage:	10 V DC... 30 ¹⁾
Ripple:	$\leq 5\text{ V}_{pp}$ ²⁾
Power consumption:	30 ³⁾
Output type:	NPN
Switching mode:	Dark-switching
Signal voltage NPN HIGH/LOW:	$U_V / < 2,9\text{ V}$
Output current $I_{max.}$:	100
Response time:	$\leq 1.25\text{ ms}$ ⁴⁾
Switching frequency:	400 ⁵⁾
Connection type:	Connector M12, 4-pin ⁶⁾
Circuit protection:::	A, C, D ^{7) 8) 9)}
Protection class:	III
Weight:	50 g
Polarisation filter:	-
Front screen heating:	-
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 V_S 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⁾ $A = V_S$ 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

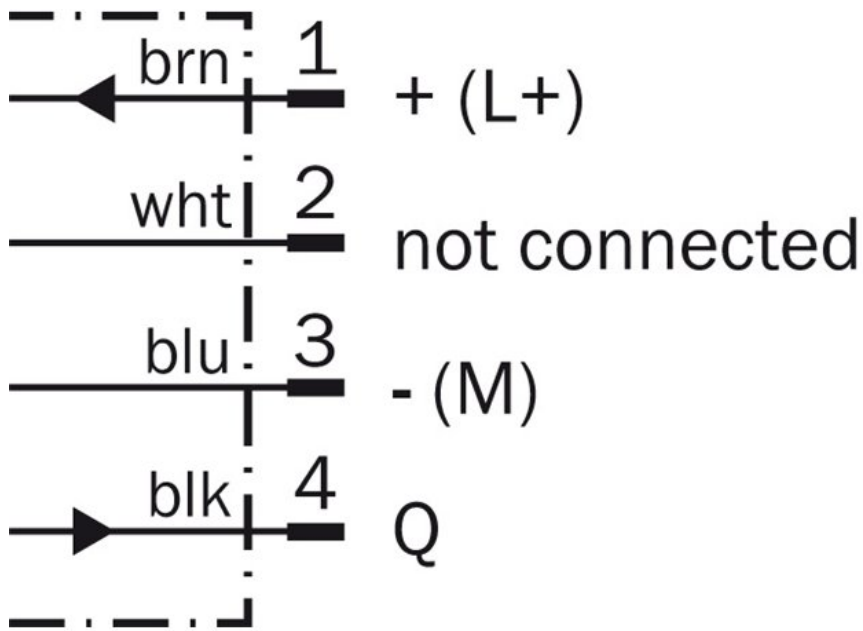
Dimensional drawing



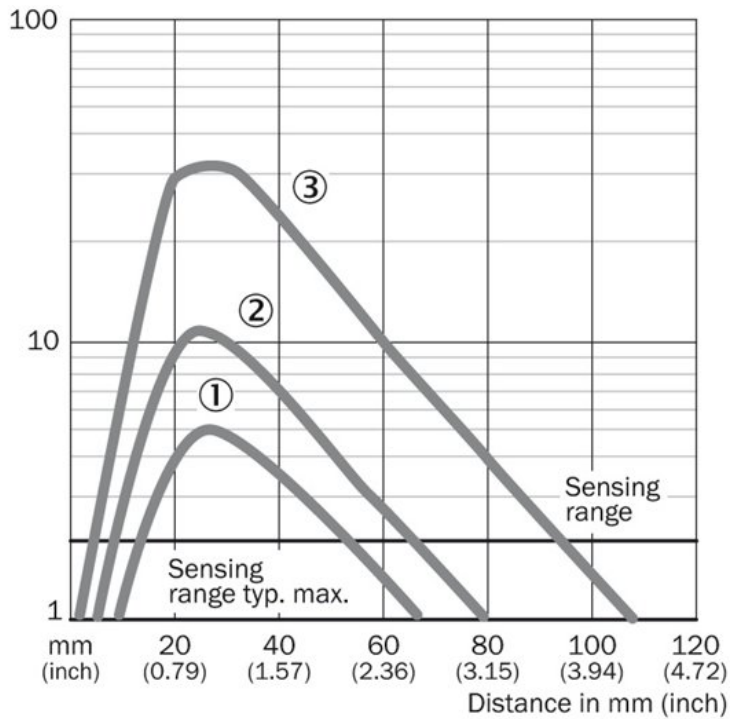
Adjustments possible



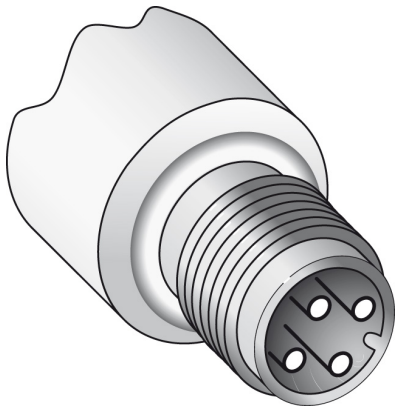
Connection diagram



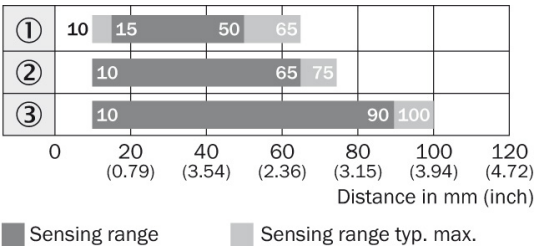
Characteristic curve



Connection type



Sensing range diagram



- ① Sensing range on black, 6 % remission
- ② Sensing range on gray, 18 % remission
- ③ Sensing range on white, 90 % remission

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