



Photoelectric sensors MH15V, Through-beam photoelectric sensor

MHSE15-N3336V



Model Name > **MHSE15-N3336V**
Part No. > **1043817**



Illustration may differ

At a glance

- Long sensing distance up to 3.5 m
- Stainless steel housing (316L/1.4404)
- Resistant to cleaning agents according to ECOLAB and JohnsonDiversey
- IP 69K, IP 67 enclosure rating
- Shortest M18 housing on the market
- Accessories for flush mounting are available

Your benefits

- Field-tested, compact, stainless steel IP 69K design of the MH15V reduces downtime and replacement costs
- MHSE15 sender/ receiver photoelectric sensors reduce miscounts and false triggers and increase machine throughput
- 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 are suitable for hygienic environments, reducing maintenance costs
- Innovative stainless steel mounting accessories provide fast and low-cost installation



Features

Sensor/detection principle:	Through-beam photoelectric sensor
Housing design (light emission):	Cylindrical, straight
Housing length:	52.9 mm
Thread diameter (housing):	M18 x 1
Optical axis:	Axial
Sensing range max.:	0 m ... 5 m
Sensing range:	0 m ... 3.8 m
Type of light:	Visible red light
Light source:	LED ¹⁾
Wave length:	650 nm
Angle of dispersion:	Ca. 1.5 °
Light spot size (distance):	Ø 65 mm (4 m)

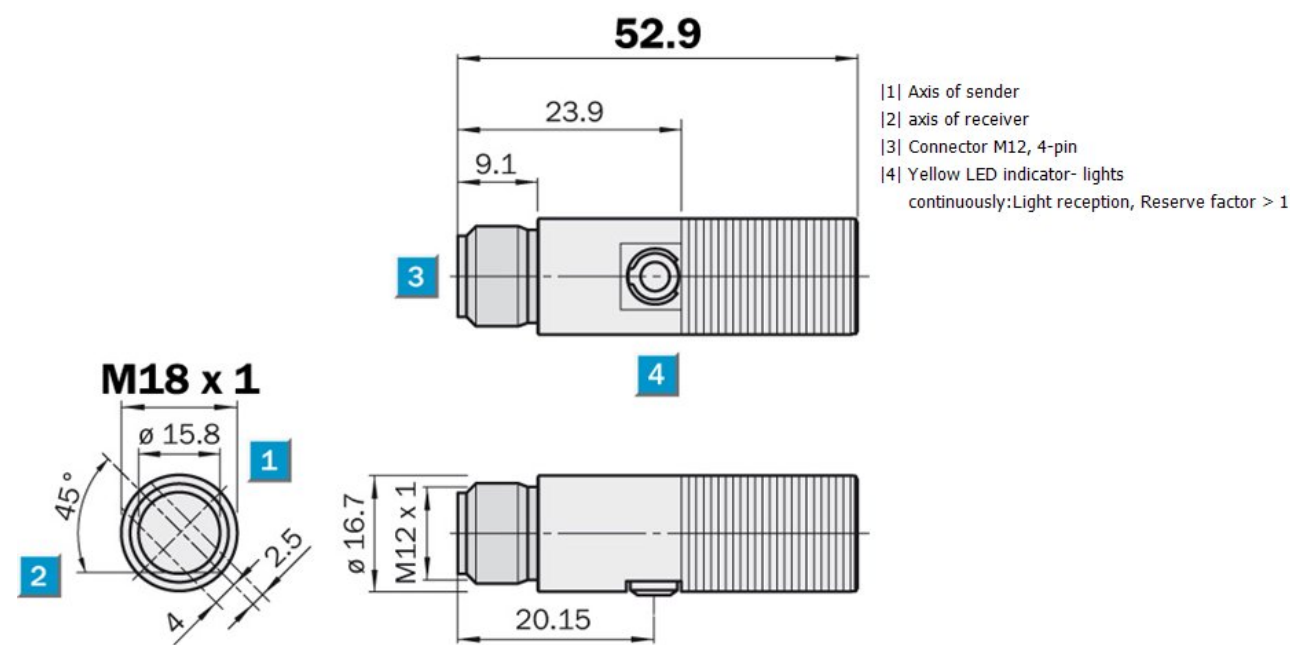
1) Average service life of 100,000 h at $T_A = +25\text{ °C}$

Mechanics/electronics

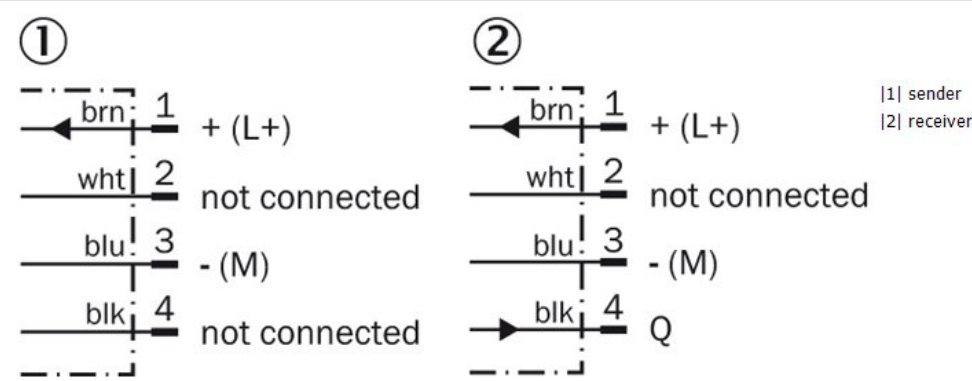
Supply voltage:	10 V DC ... 30 ¹⁾
Power consumption:	30 ²⁾
Output type:	NPN
Switching mode:	Light switching
Signal voltage NPN HIGH/LOW:	$U_v / < 2,9\text{ V}$
Output current $I_{max.}$:	100
Response time:	$\leq 1.4\text{ ms}$ ³⁾
Switching frequency:	350 ⁴⁾
Connection type:	Connector M12, 4-pin ⁵⁾
Circuit protection:::	A, C, D ^{6) 7) 8)}
Protection class:	III
Weight:	100 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 ^{9) 10)}
Ambient storage temperature:	-25 ... 70 °C
Part number of individual components:	Receiver, MHE15-N3336V, 2045303, Sender, MHS15-D3036V, 2045306
UL File No.:	NRKH.E189383 & NRKH7.E189383

¹⁾ Limit values ²⁾ Without load ³⁾ Signal transit time with resistive load ⁴⁾ With light/dark ratio 1:1 ⁵⁾ With gold plated contact pins ⁶⁾ A = V_S connections reverse-polarity protected ⁷⁾ C = interference suppression ⁸⁾ D = outputs overcurrent and short-circuit protected ⁹⁾ Use at higher ambient temperatures reduce the sender LED lifetime ¹⁰⁾ +100 °C for 15 minutes

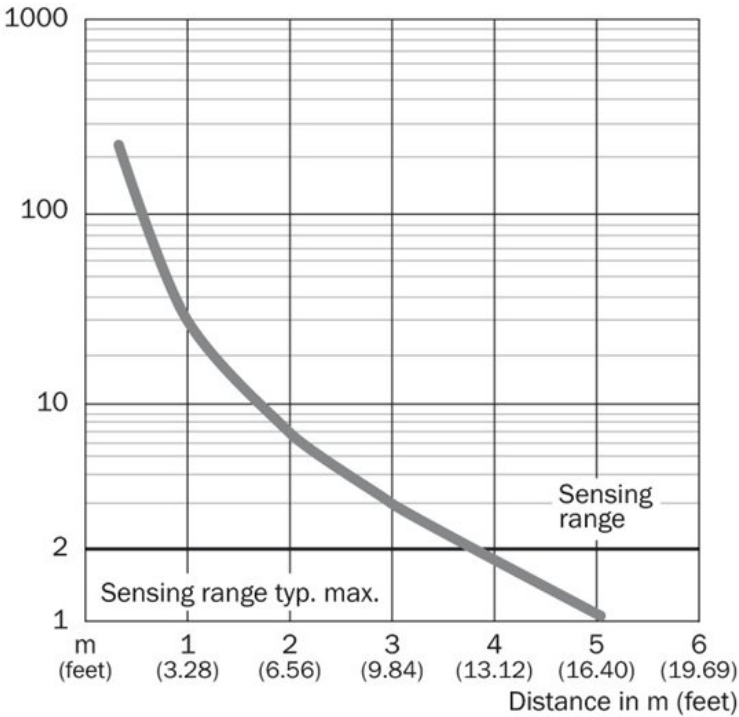
Dimensional drawing



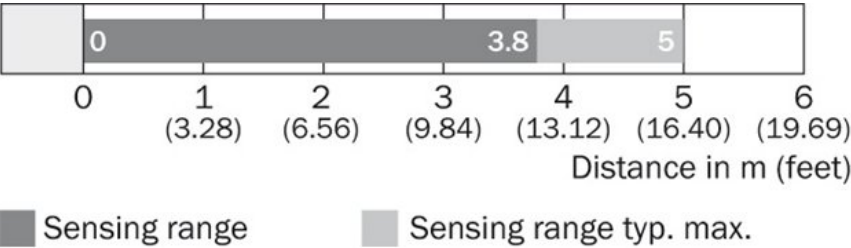
Connection diagram



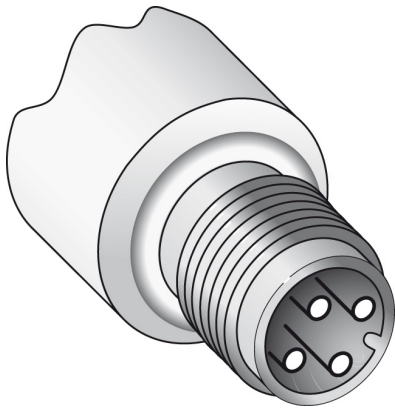
Characteristic curve



Sensing range diagram



Connection type



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