



Photoelectric sensors MH15, Through-beam photoelectric sensor

MHSE15-N2238



Model Name > [MHSE15-N2238](#)
Part No. > [1026146](#)



Illustration may differ

At a glance

- Long sensing distance up to 5 m
- Indicator LED shows active switching output and operating reserve
- Straight or right-angle housing designs available
- Mounting accessories (M18 nuts and snap ring) are included

Your benefits

- MHSE15 sender/ receiver photoelectric sensors reduce miscounts and false triggers for increased machine throughput
- 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
- MHSE15 is compatible with competitor sensors for easy replacement that saves installation time and costs
- Rugged IP 69K-rated housing offers a long service life that withstands harsh environments, reducing maintenance time and costs



Features

Sensor/detection principle:	Through-beam photoelectric sensor
Housing design (light emission):	Cylindrical, angled
Housing length:	49.3 mm
Thread diameter (housing):	M18 x 1
Optical axis:	Radial
Sensing range max.:	0 m ... 4 m
Sensing range:	0 m ... 2.8 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 50 mm (3 m)

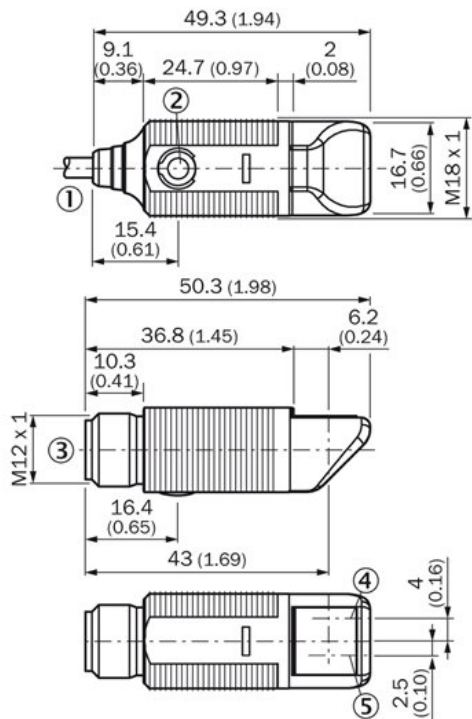
¹⁾ Average service life of 100,000 h at $T_A = +25\text{ °C}$

Mechanics/electronics

Supply voltage:	10 V DC ... 30 ¹⁾
Power consumption:	30 ²⁾
Output type:	NPN
Switching mode:	Dark-switching

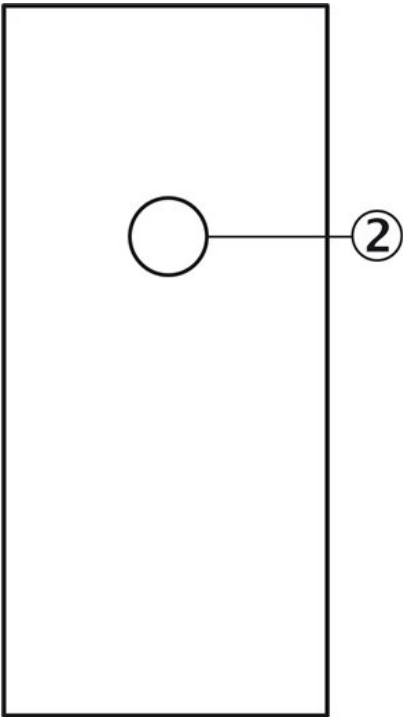
Signal voltage NPN HIGH/LOW:	Uv / < 2,9 V
Output current I _{max} :	100
Response time:	≤ 1.4 ms ³⁾
Switching frequency:	350 ⁴⁾
Connection type:	Cable, 3-wire, 2 m ⁵⁾
Cable material:	PVC
Conductor cross-section:	0.14 mm ²
Cable diameter:	3.7 mm
Circuit protection:::	A, C, D ⁶⁾ ⁷⁾ ⁸⁾
Protection class:	III
Weight:	91 g
Polarisation filter:	-
Front screen heating:	-
Housing material:	ABS, Plastic
Optics material:	PMMA
Enclosure rating:	IP 67 IP 69K
Ambient operating temperature:	-25 ... 55 °C
Ambient storage temperature:	-25 ... 70 °C
Part number of individual components:	Receiver, MHE15-N2238, 2031155, Sender, MHS15-D2038, 2031165
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⁾ Do not bend below 0 °C ⁶⁾ A = V _S connections reverse-polarity protected ⁷⁾ C = interference suppression ⁸⁾ D = outputs overcurrent and short-circuit protected	

Dimensional drawing



- [1] Connection cable 2 m
- [2] LED indicator yellow,- lights continuously: Light reception > switching threshold 1
- [4] Axis of sender
- [5] axis of receiver

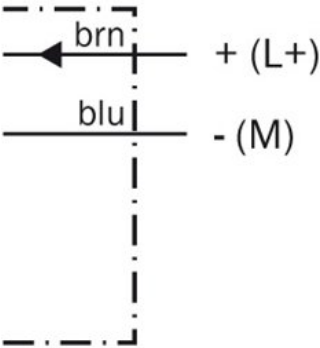
Adjustments possible



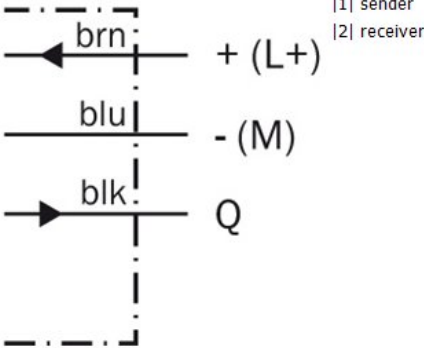
[2] Yellow LED indicator,-lights continously: Light reception> reserve factor 1,5-blinks: Light reception >reserve factor 1,5but light reception>switching threshold

Connection diagram

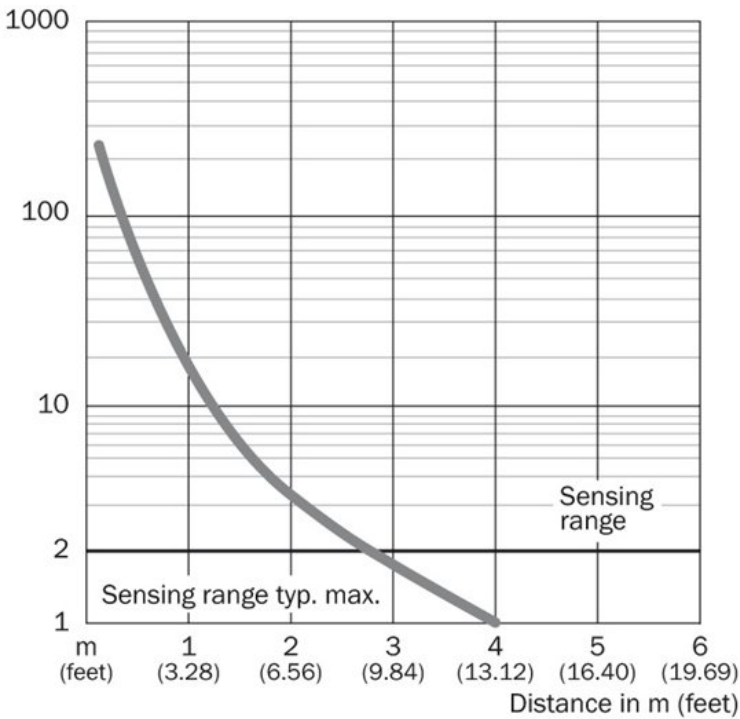
①



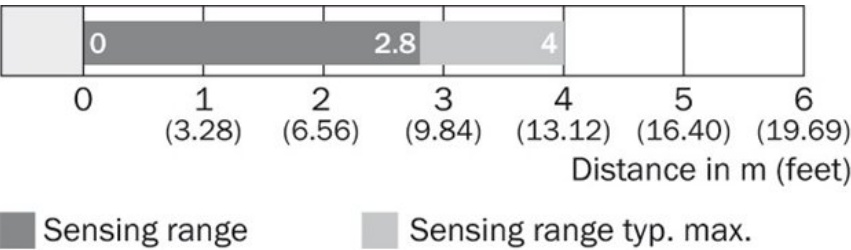
②



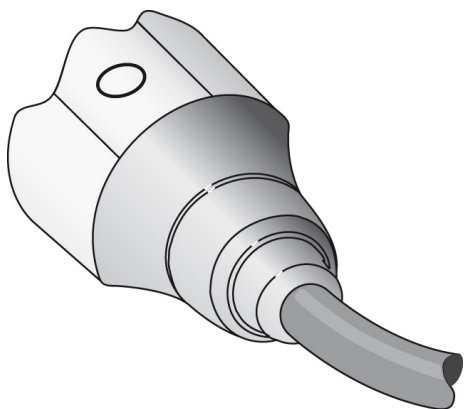
Characteristic curve



Sensing range diagram



Connection type



Australia

Phone +61 3 9457 0600
1800 334 802 – tollfree
E-Mail sales@sick.com.au

Belgium/Luxembourg

Phone +32 (0)2 466 55 66
E-Mail info@sick.be

Brasil

Phone +55 11 3215-4900
E-Mail sac@sick.com.br

Canada

Phone +1 905 771 14 44
E-Mail information@sick.com

Ceská Republika

Phone +420 2 57 91 18 50
E-Mail sick@sick.cz

China

Phone +86 4000 121 000
E-Mail info.china@sick.net.cn
Phone +852-2153 6300
E-Mail ghk@sick.com.hk

Danmark

Phone +45 45 82 64 00
E-Mail sick@sick.dk

Deutschland

Phone +49 211 5301-301
E-Mail kundenservice@sick.de

España

Phone +34 93 480 31 00
E-Mail info@sick.es

France

Phone +33 1 64 62 35 00
E-Mail info@sick.fr

Great Britain

Phone +44 (0)1727 831121
E-Mail info@sick.co.uk

India

Phone +91-22-4033 8333
E-Mail info@sick-india.com

Israel

Phone +972-4-6801000
E-Mail info@sick-sensors.com

Italia

Phone +39 02 27 43 41
E-Mail info@sick.it

Japan

Phone +81 (0)3 3358 1341
E-Mail support@sick.jp

Magyarország

Phone +36 1 371 2680
E-Mail office@sick.hu

Nederlands

Phone +31 (0)30 229 25 44
E-Mail info@sick.nl

Norge

Phone +47 67 81 50 00
E-Mail austefjord@sick.no

Österreich

Phone +43 (0)22 36 62 28 8-0
E-Mail office@sick.at

Polska

Phone +48 22 837 40 50
E-Mail info@sick.pl

România

Phone +40 356 171 120
E-Mail office@sick.ro

Russia

Phone +7-495-775-05-30
E-Mail info@sick.ru

Schweiz

Phone +41 41 619 29 39
E-Mail contact@sick.ch

Singapore

Phone +65 6744 3732
E-Mail admin@sicksgp.com.sg

Slovenija

Phone +386 (0)1-47 69 990
E-Mail office@sick.si

South Africa

Phone +27 11 472 3733
E-Mail info@sickautomation.co.za

South Korea

Phone +82 2 786 6321/4
E-Mail info@sickkorea.net

Suomi

Phone +358-9-25 15 800
E-Mail sick@sick.fi

Sverige

Phone +46 10 110 10 00
E-Mail info@sick.se

Taiwan

Phone +886-2-2375-6288
E-Mail sales@sick.com.tw

Türkiye

Phone +90 (216) 528 50 00
E-Mail info@sick.com.tr

United Arab Emirates

Phone +971 (0) 4 8865 878
E-Mail info@sick.ae

USA/México

Phone +1(952) 941-6780
1 800-325-7425 – tollfree
E-Mail info@sickusa.com

More representatives and agencies
at www.sick.com