



Photoelectric sensors MH15, Through-beam photoelectric sensor

MHSE15-P3338



Model Name > **MHSE15-P3338**
Part No. > **1026153**



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: | 50.3 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 $T_A = +25\text{ °C}$

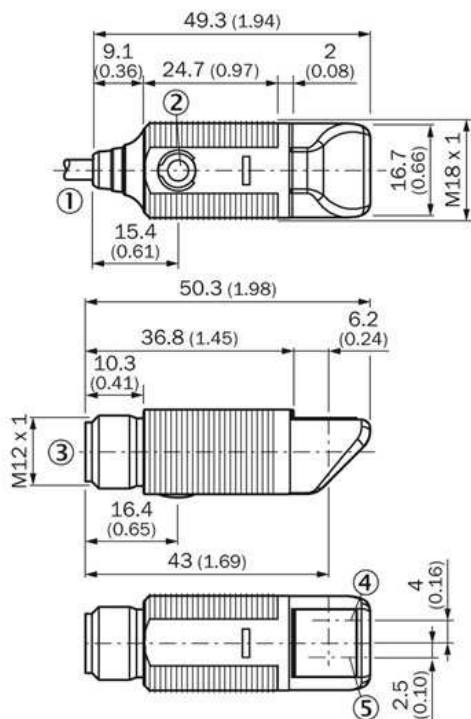
Mechanics/electronics

| | |
|--------------------|------------------------------|
| Supply voltage: | 10 V DC ... 30 ¹⁾ |
| Power consumption: | 30 ²⁾ |
| Output type: | PNP |
| Switching mode: | Light switching |

| | |
|---------------------------------------|--|
| Signal voltage PNP HIGH/LOW: | U _v - (< 2,9 V)/ca. 0 V |
| Output current I _{max} :: | 100 |
| Response time: | ≤ 1.4 ms ³⁾ |
| Switching frequency: | 350 ⁴⁾ |
| Connection type: | Connector M12, 3-pin |
| Circuit protection::: | A, C, D ^{5) 6) 7)} |
| Protection class: | III |
| Weight: | 8 g |
| 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-P3338, 2031162, Sender, MHS15-D3038, 2031166 |
| UL File No.: | NRKH.E189383 & NRKH7.E189383 |

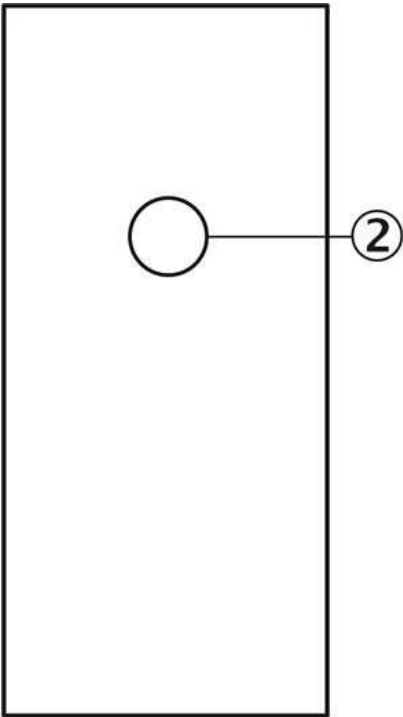
1) Limit values 2) Without load 3) Signal transit time with resistive load 4) With light/dark ratio 1:1 5) A = V_S connections reverse-polarity protected 6) C = interference suppression 7) D = outputs overcurrent and short-circuit protected

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

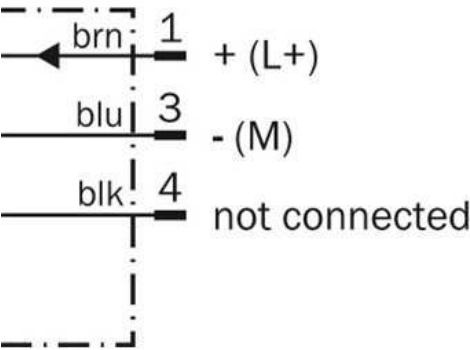
Adjustments possible



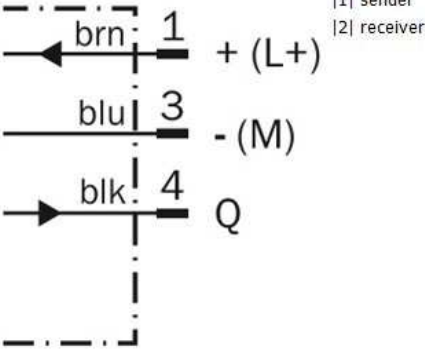
|2| Yellow LED indicator,-lights continously: Light reception> reserve factor 1,5-blinks: Light reception >reserve factor 1,5but light reception>switching threshold

Connection diagram

①

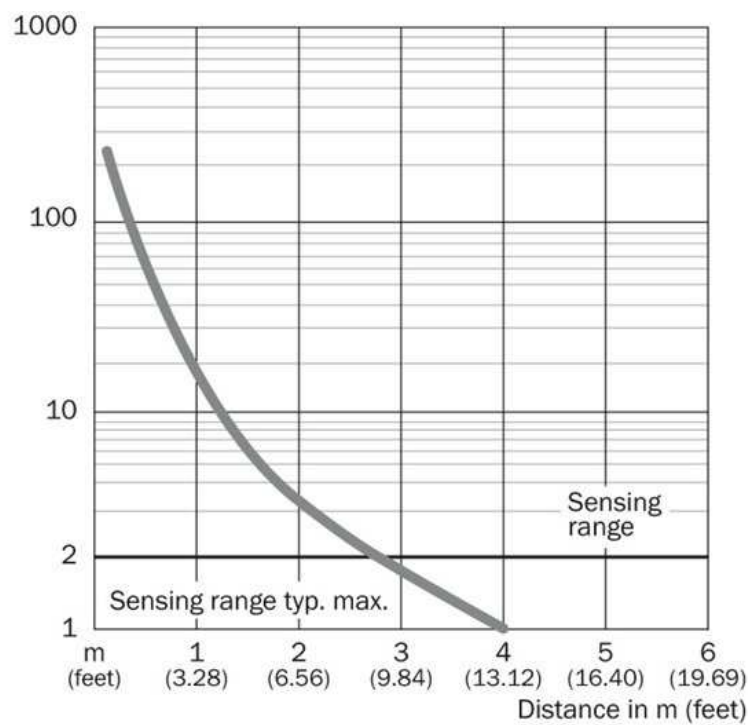


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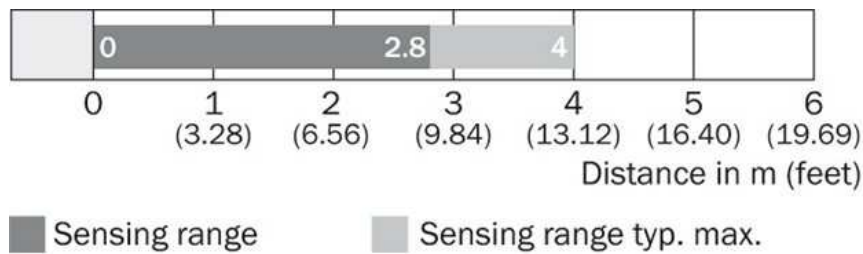


|1| sender
|2| receiver

Characteristic curve



Sensing range diagram



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