



Photoelectric sensors MH15, Photoelectric retro-reflective sensor

MHL15-N4336S01

Model Name > [MHL15-N4336S01](#)
Part No. > [1027674](#)



At a glance

- Long sensing distance up to 5.0 m with PL80A reflector
- Polarizing filter reliably detects shiny object surfaces
- 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
- IP 69K-tested housing

Your benefits

- 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
- Polarizing filter prevents false readings on reflective objects, reducing downtime
- Highly visible red light provides simple installation and time-saving alignment to the reflector
- MHL15 is compatible with competitor sensors for easy replacement that saves installation time and costs
- IP 69K-tested housing offers a long service life that withstands harsh environments, reducing maintenance time and costs



Features

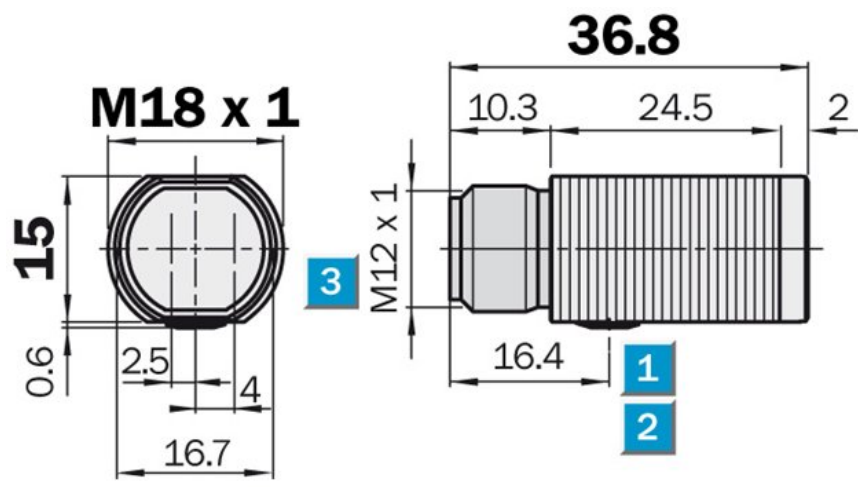
Sensor/detection principle:	Photoelectric retro-reflective sensor
Housing design (light emission):	Cylindrical, straight
Housing length:	36.8 mm
Thread diameter (housing):	M18 x 1
Optical axis:	Axial
Sensing range max.:	0.035 m ... 5 m ¹⁾
Sensing range:	0.035 m ... 3.5 m ²⁾
Type of light:	Visible red light
Light source:	LED ³⁾
Wave length:	650 nm
Angle of dispersion:	Ca. 1.5 °
Light spot size (distance):	Ø 80 mm (3.5 m)

^{1) 2)} PL80A ³⁾ Average service life of 100,000 h at T_A = +25 °C

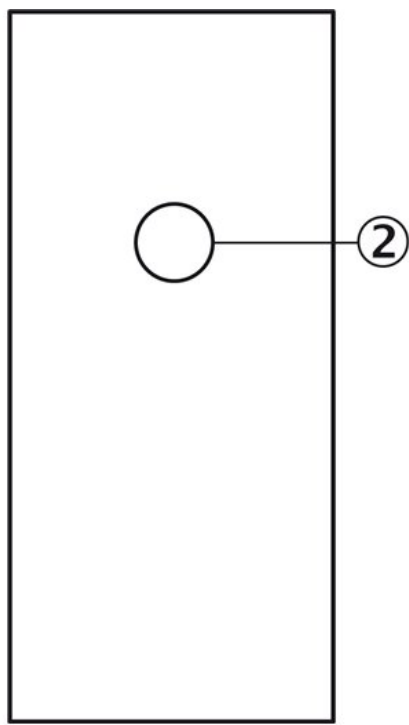
Mechanics/electronics

Supply voltage:	10 V DC ... 30 ¹⁾
Ripple:	$\leq 5 \text{ Vpp}$ ²⁾
Power consumption:	30 ³⁾
Output type:	NPN
Switching mode:	Light switching
Signal voltage NPN HIGH/LOW:	$U_v / < 2,9 \text{ V}$
Output current I _{max.} :	$\leq 100 \text{ mA}$
Response time:	$\leq 1.25 \text{ ms}$ ⁴⁾
Switching frequency:	400 Hz ⁵⁾
Connection type:	Connector M12, 4-pin
Circuit protection:::	A, C, D ⁶⁾ ⁷⁾ ⁸⁾
Protection class:	III
Weight:	7 g
Polarisation filter:	✓
Front screen heating:	-
Special device:	✓
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
UL File No.:	NRKH.E189383 & NRKH7.E189383

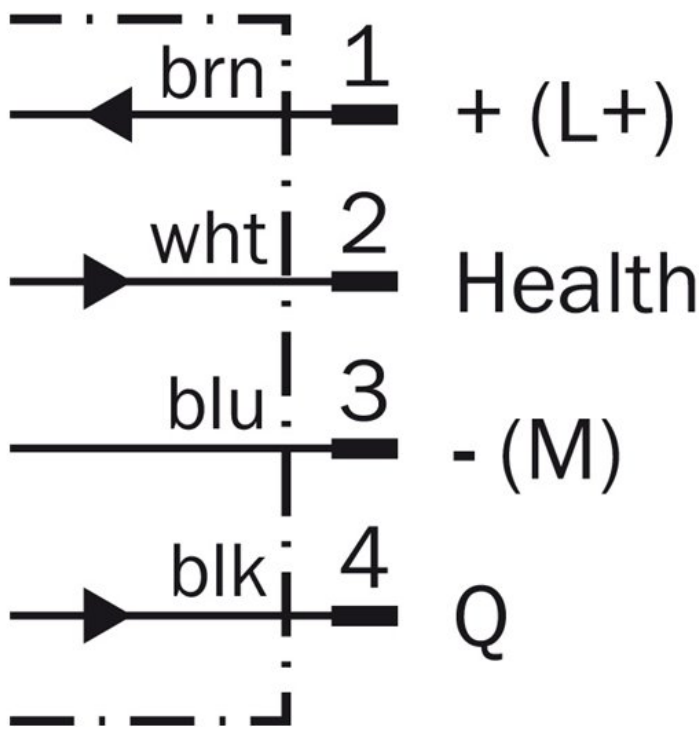
¹⁾ Limit values ²⁾ May not exceed or fall short of V_S tolerances ³⁾ Without load ⁴⁾ Signal transit time with resistive load ⁵⁾ With light/dark ratio 1:1 ⁶⁾ A = V_S
connections reverse-polarity protected ⁷⁾ C = interference suppression ⁸⁾ D = outputs overcurrent and short-circuit protected



Adjustments possible



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



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