



Photoelectric sensors MH15, Photoelectric retro-reflective sensor

MHL15-P2236S07

Model Name > [MHL15-P2236S07](#)
Part No. > [1047772](#)



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, angled
Housing length:	35.8 mm
Thread diameter (housing):	M18 x 1
Optical axis:	Axial
Sensing range max.:	0.035 ... 0.8 m, 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):	0.8 m

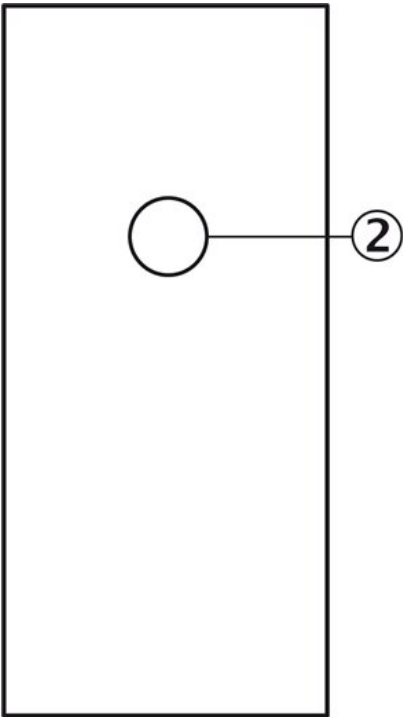
^{1) 2)} PL80A ³⁾ Average service life of 100,000 h at T_A = +25 °C

Mechanics/electronics

Supply voltage:	10 V DC ... 30 ¹⁾
Ripple:	$\leq 5 \text{ V}_{pp}$ ²⁾
Power consumption:	30 ³⁾
Output type:	PNP
Switching mode:	Dark-switching
Signal voltage PNP HIGH/LOW:	$U_v - (< 2,9 \text{ V}) / \text{ca. } 0 \text{ V}$
Output current $I_{max.}$:	100
Response time:	$\leq 1.25 \text{ ms}$ ⁴⁾
Switching frequency:	400 ⁵⁾
Connection type:	Cable, 3-wire, 2 m ⁶⁾
Cable material:	PVC
Conductor cross-section:	0.14 mm ²
Cable diameter:	3.7 mm
Circuit protection:::	A, C, D ⁷⁾ ⁸⁾ ⁹⁾
Protection class:	III
Weight:	91 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

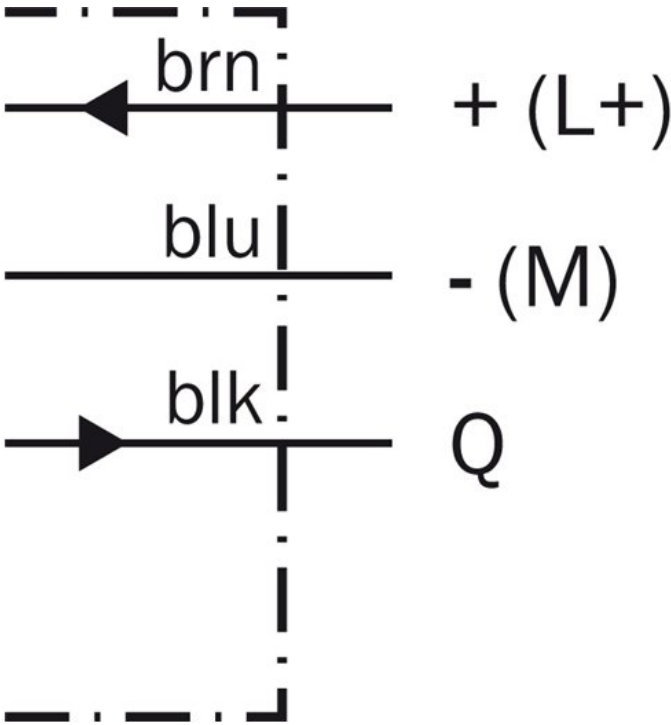
¹⁾ Limit values ²⁾ May not exceed or fall short of V_S tolerances ³⁾ Without load ⁴⁾ Signal transit time with resistive load ⁵⁾ With light/dark ratio 1:1 ⁶⁾ Do not bend below 0 °C ⁷⁾ A = V_S connections reverse-polarity protected ⁸⁾ C = interference suppression ⁹⁾ D = outputs overcurrent and short-circuit protected

Adjustments possible

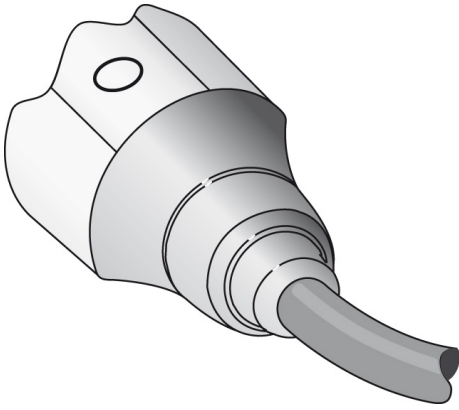


[2] Yellow LED indicator,-lights continously: Light
reception> reserve factor 1,5-blinks: Light recepti
on >reserve factor 1,5but light reception>switching thres

Connection diagram



Connection type



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