



## MH15V

Space-saving photoelectric sensors designed for wash down applications

PHOTOELECTRIC SENSORS

**SICK**  
Sensor Intelligence.



### Technical data overview

<b>Dimensions (W x H x D)</b>	18 mm x 18 mm x 52.9 mm
<b>Light source</b>	LED / PinPoint LED (depending on type)
<b>Type of light</b>	Infrared light / visible red light (depending on type)
<b>Enclosure rating</b>	IP67, IP68, IP69K
<b>Housing material</b>	Stainless steel
<b>Adjustment</b>	Potentiometer / none (depending on type)



### Product description

The stainless steel housing of the MH15V is specifically designed to operate in very harsh environments that use cleaning methods such as HPLV (High Pressure Low Volume), CIP (Clean-In-Place), and SIP (Sterilize-In-Place). Years of research and collaboration with customers in the food and beverage industry perfected the stainless steel housing design of the MH15V. It is designed to withstand chemical cleaning processes, high humidity, and high-pressure cleaning, all in order to reduce downtime caused by failing sensors in harsh wash down environments.

The MHTB15V's superior resistance to acidic and alkaline cleaning and disinfecting agents is field tested and certified in independent tests by ECOLAB and JohnsonDiversey. The 316L stainless steel housing and 3 mm thick flat sensor lens construction also allow for quick and easy, yet thorough, cleaning. This thorough cleaning reduces the risk of dirt build-up, bacteria growth and process contamination.

### At a glance

- Field-tested resistance to acidic and alkaline cleaning and disinfecting agents
- Corrosion-resistant stainless steel housing 316L, certified by ECOLAB und JohnsonDiversey
- IP 69K-rated housing is resistant to wash down environments
- Available as complete family including proximity, BGS, retro-reflective and through-beam
- 3 mm chemical resistant sensor lens

### Your benefits

- Field-tested, compact, stainless steel IP 69K design of the MH15V reduces downtime and replacement costs
- 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

## Ordering information

Other models and accessories → [www.sick.com/MH15V](http://www.sick.com/MH15V)

- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Energetic
- **Light source:** LED
- **Voltage type:** DC
- **Switching mode:** Dark switching
- **Type of light:** Infrared light

Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.
10 mm ... 100 mm	NPN	Potentiometer	Male connector M12, 4-pin	MHT15-N3217V	1043803
	PNP	Potentiometer	Male connector M12, 4-pin	MHT15-P3217V	1043805
10 mm ... 350 mm	NPN	Potentiometer	Male connector M12, 4-pin	MHT15-N3247V	1043808
	PNP	Potentiometer	Male connector M12, 4-pin	MHT15-P3247V	1043810

- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Energetic
- **Light source:** LED
- **Voltage type:** DC
- **Switching mode:** Light switching
- **Type of light:** Infrared light

Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.
10 mm ... 100 mm	NPN	Potentiometer	Male connector M12, 4-pin	MHT15-N3317V	1043804
	PNP	Potentiometer	Male connector M12, 4-pin	MHT15-P3317V	1043806
10 mm ... 350 mm	NPN	Potentiometer	Male connector M12, 4-pin	MHT15-N3347V	1043809
	PNP	Potentiometer	Male connector M12, 4-pin	MHT15-P3347V	1043811

- **Functional principle:** Photoelectric retro-reflective sensor
- **Functional principle detail:** Dual lens
- **Light source:** LED
- **Voltage type:** DC
- **Switching mode:** Dark switching
- **Type of light:** visible red light

Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.
0.035 m ... 5 m	NPN	None	Male connector M12, 4-pin	MHL15-N3236V	1043812
	PNP	None	Male connector M12, 4-pin	MHL15-P3236V	1043814

- **Functional principle:** Photoelectric retro-reflective sensor
- **Functional principle detail:** Dual lens
- **Light source:** LED
- **Voltage type:** DC
- **Switching mode:** Light switching
- **Type of light:** visible red light

Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.
0.035 m ... 5 m	NPN	None	Male connector M12, 4-pin	MHL15-N3336V	1043813
	PNP	None	Male connector M12, 4-pin	MHL15-P3336V	1043815

- **Functional principle:** Through-beam photoelectric sensor
- **Light source:** LED
- **Voltage type:** DC
- **Switching mode:** Dark switching
- **Type of light:** visible red light

Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.
0 m ... 5 m	NPN	None	Male connector M12, 4-pin	MHSE15-N3236V	1043816
	PNP	None	Male connector M12, 4-pin	MHSE15-P3236V	1043818

- **Functional principle:** Through-beam photoelectric sensor
- **Light source:** LED
- **Voltage type:** DC
- **Switching mode:** Light switching
- **Type of light:** visible red light

Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.
0 m ... 5 m	NPN	None	Male connector M12, 4-pin	MHSE15-N3336V	1043817
	PNP	None	Male connector M12, 4-pin	MHSE15-P3336V	1043819

- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression
- **Light source:** PinPoint LED
- **Voltage type:** DC
- **Switching mode:** Dark switching
- **Type of light:** visible red light

Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.
3 mm ... 300 mm	NPN	Potentiometer	Male connector M12, 4-pin	MHTB15-N3267V	1047159
	PNP	Potentiometer	Male connector M12, 4-pin	MHTB15-P3267V	1047160

- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression
- **Light source:** PinPoint LED
- **Voltage type:** DC
- **Switching mode:** Light switching
- **Type of light:** visible red light

Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.
3 mm ... 300 mm	NPN	Potentiometer	Male connector M12, 4-pin	MHTB15-N3367V	1046536
	PNP	Potentiometer	Male connector M12, 4-pin	MHTB15-P3367V	1046537

## SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

## WORLDWIDE PRESENCE:

Contacts and other locations –[www.sick.com](http://www.sick.com)