W4SLG-3H

Detects all objects in the harshest of environments

PHOTOELECTRIC SENSORS

SICK
Sensor Intelligence.

W4SLG-3H
PHOTOELECTRIC SENSORS

Technical data overview

Dimensions (W x H x D)	15.3 mm x 63.2 mm x 22.2 mm
Light source	Laser
Type of light	Visible red light
Enclosure rating	IP66, IP67, IP68, IP69K
Housing material	Stainless steel
Adjustment	Cable Teach-in button (depending on type)

Product description

The stainless steel housing of the WL4SLG-3 Inox Hygiene photoelectric retro-reflective sensor, which is designed based on hygiene guidelines, is ideal for machines in which hygiene is already part of the design. The sensor mode can be switched between the detection of transparent and non-transparent objects at the touch of a button. This means that one device can be used to detect both transparent vials and metallic needles, for example. This reduces the variety of sensors needed. The precise, highly visible laser light spot ensures a high level of detection quality and facilitates alignment. Autocollimation technology ensures that the sensor can be relied upon to detect objects at close range as well as through small drilled holes. The photoelectric sensors also feature an IO-Link function, so that initial system performance diagnostics can be carried out independently. Furthermore, IO-Link permits the integration of additional functions such as meters directly into the sensor. There is no need for complex control programming.

At a glance

• Stainless steel housing in hygiene design
• Precise laser light spot, laser class 1, no blind zone
• Latest SICK proprietary ASIC and laser technologies for outstanding background suppression and ambient light immunity
• ECOLAB-certified, tested for IP66, IP67, IP68, and IP69K
• Teach-in button to switch between detection of transparent and tiny non-transparent objects
• IO-Link (optional)

Your benefits

• Precise laser light spot for highly accurate switching behavior
• Stainless steel housing designed based on hygiene guidelines reduces the risk of microbacterial contamination
• Innovative hygienic design with unique patented membrane teach-in button and pin-cast D12 adapter shaft
• High system throughput and minimum operating costs thanks to high-quality production and inspection
• One sensor for detecting both transparent objects and the smallest non-transparent objects, The corresponding mode can be set simply at the touch of a button for sensing ranges of up to 8 m, thus reducing the variety of sensors and saving on storage costs.

Fields of application

• Precise object positioning – Detection of slices of sausage before primary packaging on a coarse-meshed, hygienic conveyor
• Precise edge detection – Controlling the exact position of ampulla-tubes before final closing
• Application are mostly in the pharmaceutical industry but also e.g. at the packaging, electronic and solar industry as well as food and beverage industry

Ordering information

Other models and accessories ➜ www.sick.com/W4SLG-3H

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

Sensing range max.	Switching output	Adjustment	Connection type	Laser class	Type	Part no.
0 m … 3.5 m	PNP	Cable	Male connector M8, 4-pin [1]	1	WL4SLG-3F5254H	1076064
		Cable, Teach-in button	Cable with M8 male connector, 4-pin, 150 mm [1] [2]	1	WL4SLG-3F7254H	1076066

[1] Max. tightening torque: 0.6 Nm.

[2] Do not bend below 0 °C.

- **Functional principle:** Photoelectric retro-reflective sensor
- **Functional principle detail:** autocollimation
- **Light source:** laser
- **Voltage type:** DC
- **Switching mode:** Light/dark switching
- **Type of light:** visible red light

Sensing range max.	Switching output	Adjustment	Connection type	Laser class	Type	Part no.
0 m … 3.5 m	PNP	Teach-in button	Cable with M8 male connector, 4-pin, 150 mm [1] [2]	1	WL4SLG-3P7252H	1076065
			Male connector M8, 4-pin [1]	1	WL4SLG-3P5252H	1076062
0 m … 4.5 m	PNP	Teach-in button	Cable with M8 male connector, 4-pin, 150 mm [1] [2]	1	WL4SLG-3P3232H	1068109
			Male connector M8, 4-pin [1]	1	WL4SLG-3P5234HS03	1110468

[1] Max. tightening torque: 0.6 Nm.

[2] Do not bend below 0 °C.

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

Sensing range max.	Switching output	Adjustment	Connection type	Laser class	Type	Part no.
0 m ... 3.5 m	PNP	Cable	Male connector M8, 4-pin [1]	1	WL4SLG-3P5254H	1109333

[1] Max. tightening torque: 0.6 Nm.

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**

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