



W4SLG-3V

Detects all objects in the harshest of environments

PHOTOELECTRIC SENSORS

SICK
Sensor Intelligence.



Technical data overview

Dimensions (W x H x D)	15.3 mm x 55.4 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 / Teach-in button (depending on type)



Product description

A single press of a button on the WL4SLG-3 Inox allows operation in the detection mode for transparent and/or non-transparent objects. This means that one device can be used to detect transparent vials and PET bottles, but also metallic needles and wires, for example. The precise, highly visible laser light spot with sharp contour ensures a high level of detection quality and facilitates alignment. Autocollimation technology ensures that the sensor reliably detects objects at close range as well as through narrow gaps or small drilled holes. The photoelectric sensors also feature an IO-Link function, so that initial system performance diagnostics can be done independently. Furthermore, IO-Link permits the integration of additional functions such as meters or profile recognition directly into the sensor. There is no need for complex control programming.

At a glance

- Precise laser light spot, laser class 1, no blind spots
- Stainless steel housing with washdown design
- Latest SICK proprietary ASIC and laser technologies for very good background suppression and ambient light immunity
- ECOLAB certified, tested to IP66, IP67, IP68 and IP69K enclosure rating
- Teach-in pushbutton can be switched between detection of transparent and tiny non-transparent objects
- IO-Link (optional)

Your benefits

- Precise laser light spot for highly accurate switching behavior
- Washdown stainless steel housing reduces the risk of microbacterial contamination
- Washdown design with sealed connections and patented membrane teach-in button
- The highest degree of machine design flexibility. Autocollimation permits detection even through small drilled holes.
- 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
- IO-Link facilitates initial system performance diagnostics and uses additional sensor functions to reduce complex control programming

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-3V

- **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, Teach-in button	Male connector M8, 4-pin ¹⁾	1	WL4SLG-3F2254V	1076059

¹⁾ Max. tightening torque: 0.6 Nm.

- **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, Teach-in button	Male connector M8, 4-pin ¹⁾	1	WL4SLG-3P2254V	1076061

¹⁾ Max. tightening torque: 0.6 Nm.

- **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 M12 male connector, 4-pin, 150 mm ¹⁾	1	WL4SLG-3P3452V	1076057
0 m ... 4.5 m	PNP	Teach-in button	Male connector M12, 4-pin ²⁾	1	WL4SLG-3K2432VS01	1065697

¹⁾ Max. tightening torque: 0.6 Nm.

²⁾ Max. tightening torque: 0.7 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