



W4SLG-3

Detect all objects with one device - Change mode via teach button



PHOTOELECTRIC SENSORS



Technical data overview

Dimensions (W x H x D)	12.2 mm x 41.8 mm x 17.3 mm			
Light source	Laser			
Type of light	Visible red light			
Enclosure rating	IP66, IP67			
Housing material	Plastic			
Adjustment	Teach-in button / cable / Teach-in button (depending on type)			



Product description

The WL4SLG-3 detects all types of objects, including transparent vials, PET bottles, metallic needles, and wires, The precise, highly visible laser light spot ensures a high level of detection quality and facilitates sensor alignment. Autocollimation technology ensures that the sensor reliably detects objects at close range and through small drilled holes. The sensor uses automatic switching threshold adaptation to adjust automatically to changing light conditions, helping ensure maintenance-free system operation. The photoelectric sensors also provide an IO-Link interface to allow performing initial system performance diagnostics. In addition, 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

- Precise laser light spot, laser class 1
- · Teach-in button can be switched between detection of transparent and smallest non-transparent objects
- · Automatic switching threshold adaptation provides automatic adjustment to changes in light conditions
- Sensing ranges up to 4.5 m
- Autocollimation optics prevent blind spots
- · Choice of adjustment via teach-in button, potentiometer, cable, or IO-Link

Your benefits

- One device for detecting both transparent objects and the smallest non-transparent objects at sensing ranges up 4.5 m, thus reducing the variety of sensors and saving on storage costs.
- · Highly visible, even laser light spot with a sharp contour to facilitate alignment
- The highest degree of machine design flexibility. Autocollimation permits detection even through small drilled holes.
- · High-quality sensor manufacturing and testing reduce maintenance costs
- · Established and proven housing design for easy installation
- IO-Link facilitates initial system performance diagnostics and uses additional sensor functions to reduce complex control programming

Fields of application

- Overhang control sensor avoids overhanging panels
- Precise object positioning Monitoring the exact position of a part in order to prepare a quality check
- Precise edge detection of glass panel
- Monitoring additional features of a part such as boreholes
- Check whether a part is located in the gripper of the robot
- Application are, e.g. at the packaging, automotive and part supplier, electronic and solar industry, machine building and the industries of commercial goods

Ordering information

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

- 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	Туре	Part no.
0 m 3.5 m NPN PNP	NPN	Teach-in button	Cable, 4-wire, 2 m	1	WL4SLG-3N1152	1076053
	PNP	Teach-in button	Male connec- tor M8, 4-pin	1	WL4SLG-3P2252	1076046
		Cable, Teach- in button	Cable with M8 male connector, 4-pin, 150 mm	1	WL4SLGC- 3P3052B01	1119068
			Male connec- tor M8, 4-pin	1	WL4SLGC- 3P2252A00	1080951
					WL4SLGC- 3P2252A70	1080953
					WL4SLGC- 3P2252A71	1080955
0 m 4.5 m	NPN	Teach-in button	Cable, 4-wire, 2 m $^{1)}$	1	WL4SLG- 3N1162P01	1101033
					WL4SLG-3N1132	1058247
	PNP	Teach-in button	Male connec- tor M8, 4-pin	1	WL4SLG-3F2232	1132822
					WL4SLG-3P2232	1058243

 $^{1)}$ Do not bend below 0 °C.

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



Online data sheet

