



W4SL-3V

The new standard for optical and mechanical ruggedness

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	Teach-in button / cable / Teach-in button (depending on type)



Product description

For the best possible performance in a wet environment: thanks to high light immunity, the new W4SL-3 Inox miniature photoelectric sensors from SICK with precise laser light spot set new standards when it comes to preventing undesired background reflections and to ambient light immunity, even in modern energy-saving lights. The combination of SICK's latest proprietary laser and ASIC technologies reduces incorrect switching. The photoelectric sensors complete this product family. One device can reliably detect all transparent objects as well as tiny non-transparent objects. This reduces the variety of devices and saves on storage costs. The photoelectric sensors also feature an IO-Link function, so that initial system performance diagnostics can be done independently. The W4SL-3 Inox is certified in accordance with ECOLAB. The membrane teach-in pushbutton and the pin-cast electrical connections make it reliable even in critical ambient conditions.

At a glance

- Precise laser light spot, laser class 1
- Stainless steel housing with washdown design
- Latest SICK proprietary ASIC and laser technologies for outstanding background suppression and ambient light immunity
- Teach-in pushbutton can be switched between detection of transparent and tiny non-transparent objects
- ECOLAB certified, tested to IP 66, IP 67, IP 68 and IP 69K enclosure rating
- IO-Link (optional)

Your benefits

- Precise laser light spot for highly accurate switching
- Washable stainless steel housing reduces bacterial contamination
- Innovative washdown design with sealed connections and unique patented membrane teach-in pushbutton
- High ambient light immunity reduces incorrect switching and ultimately machine downtime, even when modern energy-saving lights are used
- The highest degree of machine design flexibility. Outstanding BGS (background suppression) eliminates the effect of undesired background reflections. Autocollimation permits detection through very small drilled holes.
- IO-Link provides effortless initial diagnostics of system performance

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/W4SL-3V

- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression
- **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.
25 mm ... 300 mm	NPN	Teach-in button	Cable, 4-wire, 2 m ¹⁾	1	WTB4SL-3N1162V	1058257
			Male connector M12, 4-pin	1	WTB4SL-3N2462V	1058254
			Male connector M8, 4-pin ²⁾	1	WTB4SL-3N2262V	1058252
	PNP	Teach-in button	Cable with M12 male connector, 4-pin, 150 mm ^{1) 3)}	1	WTB4SL-3P3462V	1058255
			Cable, 4-wire, 2 m ¹⁾	1	WTB4SL-3P1162V	1058256
			Male connector M12, 4-pin	1	WTB4SL-3P2462V	1058253
			Male connector M8, 4-pin ²⁾	1	WTB4SL-3P2262V	1058251
			Teach-in button, cable	1	WTB4SL-3P2264VS01	1070085
	40 mm ... 200 mm	PNP	Teach-in button, cable	Male connector M8, 4-pin ²⁾	1	WTB4SL-3P2264VS02

¹⁾ Do not bend below 0 °C.

²⁾ Max. tightening torque: 0.6 Nm.

³⁾ Max. tightening torque: 0.7 Nm.

- **Functional principle:** Through-beam photoelectric sensor
- **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 ... 60 m	NPN	Teach-in button	Cable, 4-wire, 2 m ¹⁾	1	WSE4SL-3N1137V	1058270
			Cable, 4-wire, 2 m ¹⁾	1	WSE4SL-3P1137V	1115139
	PNP	Teach-in button	Male connector M12, 4-pin ²⁾	1	WSE4SL-3P2437V	1058269
			Male connector M8, 4-pin ³⁾	1	WSE4SL-3P2237V	1058267

¹⁾ Do not bend below 0 °C.

²⁾ Max. tightening torque: 0.7 Nm.

³⁾ 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