Product family overview

W4SL-3H

Laser technology and stainless steel hygienically combined

PHOTOELECTRIC SENSORS

SICK
Sensor Intelligence.

Technical data overview

Dimensions (W x H x D)	15.3 mm x 63.2 mm x 22.2 mm 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 / IP66 (depending on type)
Housing material	Stainless steel
Adjustment	Teach-in button

Product description

For the best possible hygienic performance: thanks to high immunity to ambient light, the new W4SL-3 Inox Hygiene miniature photoelectric sensors with precise laser light spot set new standards when it comes to preventing undesired background reflections and to ambient light immunity, even with modern energy-saving lights. The combination of SICK's latest proprietary laser and ASIC technologies reduces incorrect switching to minimize machine downtime. The photoelectric sensors complete this product family. One device can reliably detect all transparent objects as well as tiny non-transparent objects, thus reducing the variety of devices. The photoelectric sensors also feature an IO-Link function, so that initial system performance diagnostics can be done independently. The W4SL-3 Inox Hygiene is certified in accordance with ECOLAB. In addition to an innovative leak-tight design, the sensors also have an impressive smooth housing design, which follows current hygiene guidelines.

At a glance

- Precise laser light spot, laser class 1
- Stainless steel housing with wash down 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 wash down 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-3H

- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression
- **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.
25 mm ... 300 mm	PNP	Teach-in button	Male connector M8, 4-pin [1]	1	WTB4SL-3P5264H	1103456

[1] Max. tightening torque: 0.6 Nm.

- **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-3N4162H	1058275
	PNP	Teach-in button	Cable with M8 male connector, 4-pin, 150 mm [1]	1	WTB4SL-3P3262H	1096530
			Cable with M8 male connector, 4-pin, 150 mm [1] [2]	1	WTB4SL-3P7262H	1058272
			Cable, 4-wire, 2 m [1]	1	WTB4SL-3P4162H	1058274
			Cable, 4-wire, 5 m [1]	1	WTB4SL-3P4262H	1127818
			Male connector M8, 4-pin [2]	1	WTB4SL-3P5262H	1058271

[1] Do not bend below 0 °C.
[2] Max. tightening torque: 0.6 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	PNP	Teach-in button	Male connector M8, 4-pin [1]	1	WSE4SL-3P5237H	1092532

[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