W4S-3 Inox Glass

Reliable detection of transparent objects

PHOTOELECTRIC SENSORS

SICK
Sensor Intelligence.

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Technical data overview

Dimensions (W x H x D)	15.25 mm x 48.6 mm x 22.2 mm 15.25 mm x 44.5 mm x 22.2 mm 15.25 mm x 49.2 mm x 22.2 mm 15.25 mm x 44.9 mm x 22.2 mm
Light source	PinPoint LED
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 WLG4S-3 INOX photoelectric retro-reflective sensor in WashDown design combines rugged watertight IP 69K stainless steel housing with "best-in-class" optical functionality.
Designed to detect transparent objects, the sensors also boast advanced features such as continuous adjustment of switching thresholds. These space-saving miniature sensors are able to withstand the most aggressive cleaning agents and disinfectants thanks to a teach-in membrane that is 100% watertight and pin-cast M12 connections. They can be relied upon for long-term service in critical applications in the food and beverage, pharmaceutical, solar, and electronics industries. Corresponding accessories including chemically-resistant reflectors are available for these truly harsh applications.

At a glance

- IP 66, IP 67, IP 68 and IP 69K enclosure rating and Ecolab certified
- Tough stainless steel housing (316L/1.4404)
- Resistant to a variety of common cleaning and disinfection agents
- Modern electrical connection available – M12 connector with pin casting
- PinPoint LED technology provides a highly visible laser-like light spot
- Teach-in via stainless steel pushbutton with a metal membrane
- Continuous threshold adjustment technology reliably detects objects in changing conditions

Your benefits

- Long service life in harsh conditions ensures less downtime and fewer replacement costs
- Reliable detection of all materials, including transparent objects in the pharmaceutical, packaging, and food and beverage industries
- Easy adjustment via a stainless steel metal membrane teach-in pushbutton
- Quick and easy alignment due to highly visible PinPoint emitter LED
- Remote monitoring and quick diagnostics via IO-Link (optional)

Ordering information

Other models and accessories ➜ www.sick.com/W4S-3_Inox_Glass

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

Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.
0 m ... 5 m	NPN	Cable	Cable, 4-wire, 2 m [1]	WLG4S-3E1135V	1046438
		Cable, Teach-in button	Cable, 4-wire, 2 m [1]	WLG4S-3E1134V	1048027
	PNP	Teach-in button	Male connector M8, 4-pin [2]	WLG4S-3V2232V	1046447
		Cable	Cable with M12 male connector, 4-pin, 150 mm [1] [3]	WLG4S-3F3435V	1062552
			Male connector M8, 4-pin [2]	WLG4S-3F2235V	1045098
		Cable, Teach-in button	Cable with M12 male connector, 4-pin, 150 mm [1] [3]	WLG4S-3F3434V	1048024
			Male connector M12, 4-pin [1] [3]	WLG4S-3F2434V	1054727
			Male connector M8, 4-pin [2]	WLG4S-3F2234V	1047653
				WLG4S-3F2234VS04	1050832

[1] Do not bend below 0 °C.
[2] Max. tightening torque: 0.6 Nm.
[3] Max. tightening torque: 0.7 Nm.

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

Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.
0 m ... 5 m	PNP	Cable	Male connector M8, 4-pin [1]	WLG4S-3P2235V	1069744
		Cable, Teach-in button	Male connector M8, 4-pin [1]	WLG4S-3P2234V	1051456
				WLG4S-3P2234VS05	1058027

[1] Max. tightening torque: 0.6 Nm.

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

Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.
0 m … 5 m	NPN	Teach-in button	Cable, 4-wire, 2 m [1]	WLG4S-3N1132V	1046450
			Male connector M12, 4-pin [1] [2]	WLG4S-3N2432V	1054728
	PNP	Teach-in button	Cable with M12 male connector, 4-pin, 150 mm [1] [2]	WLG4S-3P3432V	1046449
				WLG4SC-3P3432VA00	1097829
			Cable with M8 male connector, 4-pin, 150 mm [1] [3]	WLG4S-3P3232V	1046448
			Cable, 4-wire, 2 m [1]	WLG4S-3P1132V	1055044
			Cable, 4-wire, 5 m [1]	WLG4S-3P1232V	1088867
			Male connector M12, 4-pin [1] [2]	WLG4S-3P2432V	1054725
				WLG4SC-3P2432VA00	1090947
			Male connector M8, 4-pin [3]	WLG4S-3P2232V	1046446
				WLG4S-3P2232VS03	1050831
				WLG4S-3P2232VS07	1051943
				WLG4SC-3P2232VA00	1097830
		Cable, Teach-in button	Male connector M8, 4-pin [3]	WLG4S-3P2234VS06	1069434

[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."

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