

W4S-3 Glass

Slim photoelectric sensors reliably detect transparent objects

PHOTOELECTRIC SENSORS

SICKSensor Intelligence.



Technical data overview

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



Product description

The WLG4S-3 is a retro-reflective sensor enclosed in a slim housing that reliably detects transparent objects. Even small gaps between objects, highly transparent thin films, and vials with flow marks and severe lens defects can be reliably detected. Setting the sensor requires a single press of the teach-in pushbutton. The sensor reliably adjusts for any changes to environmental conditions such as temperature, dust or dirt. The single-lens autocollimation system "sees" through even the smallest of openings. The Pin-Point LED's small but intense light spot enables quick and easy alignment even when using the smallest reflectors. Plus, variants with IO-Link provide continuous diagnostics data.

At a glance

- · Continuous threshold adaption of the switching threshold compensates for environmental changes
- Single-lens autocollimation optics
- Simple setting either via teach-in pushbutton, cable or IO-Link
- PinPoint LED technology with a small, highly visible, well-defined light spot enables high reserve levels when using small reflectors
- Flexible sensor settings, monitoring, advanced diagnostics, and visualization thanks to IO-Link

Your benefits

- Optimal detection of any kind of transparent object
- · Quick and easy operation via the push of a button automatic setting of the correct switching threshold
- Less downtime due to a Continuous Threshold Adaption which compensates for changing environmental conditions, including temperature, dust and drift effects
- The well-defined, highly visible intense light spot provides quick and reliable alignment
- IO-Link provides easy data access from the PLC
- Quick and easy configuration
- Quick and easy integration using function blocks
- · Easy device replacement and identification

Ordering information

Other models and accessories → www.sick.com/W4S-3_Glass

• 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	Туре	Part no.
0.01 m 5 m NPN	NPN	Teach-in button	Cable with special connector, 276 mm ¹⁾	WLG4S-3N1332A01	1047821
			Cable, 3-wire, 2 m ¹⁾	WLG4S-3N1332	1046111
	Teach-in button	Cable with connector M8, 3-pin, 100 mm ¹⁾	WLG4S-3P3132	1043839	
		Cable, Teach-in button	Cable with M12 male connector, 4-pin, 150 mm ¹⁾	WLG4S-3P3434	1046819
		Cable with M8 male connector, 4-pin, 100 mm ¹⁾	WLG4S-3P3234	1054098	
			Male connector M8, 4-pin	WLG4S-3P2234	1052999
0 m 4 m	NPN	Teach-in button	Cable, 3-wire, 2 m ¹⁾	WLG4S-3N1332S12	1129078

 $^{^{1)}}$ Do not bend below 0 $^{\circ}\text{C}.$

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• Functional principle: Photoelectric retro-reflective sensor

• Functional principle detail: autocollimation

• Light source: PinPoint LED

• Voltage type: DC

Switching mode: Dark switchingType of light: visible red light

Sensing range max.	Switching output	Adjustment	Connection type	Туре	Part no.
0.01 m 5 m	NPN	Teach-in button	Cable with MOLEX- connector, 220 mm ¹⁾	WLG4S-3W3032S13	1091964
			Cable, 4-wire, 2 m ¹⁾	WLG4S-3W1132	1042086
			Cable with special connector, 3-wire, 300 mm ¹⁾	WLG4S-3E1334S03	1055060
		Cable, Teach-in button	Cable, 4-wire, 2 m ¹⁾	WLG4S-3E1134	1042085
	PNP	Teach-in button	Cable with connector M12, 3-pin, 150 mm ¹⁾	WLG4S-3F3332	1059718
			Cable with connector M8, 3-pin, 100 mm ¹⁾	WLG4S-3F3132	1043838
			Cable, 4-wire, 2 m ¹⁾	WLG4S-3V1132	1055895
			Male connector M8, 4-pin	WLG4S-3V2232	1042087
		Cable, Teach-in button	Cable with M8 male connector, 4-pin, 100 mm ¹⁾	WLG4S-3F3234	1043840
			Male connector M8, 4-pin	WLG4S-3F2234	1042084
0 m 5 m	PNP	Cable, Teach-in button	Male connector M8, 4-pin	WLG4SC- 3P2232S12	1080804

 $^{^{1)}}$ Do not bend below 0 °C.

• 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	Туре	Part no.
0.01 m 5 m	NPN	Teach-in button	Cable with M12 male connector, 4-pin, 150 mm ¹⁾	WLG4S-3N3432	1052210
	PNP	Teach-in button		WLG4S-3K3432	1106887
				WLG4S-3P3432	1051097
			Cable with M8 male connector, 4-pin, 100 mm ¹⁾	WLG4S-3P3232	1052963
			Male connector M8, 4-pin	WLG4S-3K2232	1069998
				WLG4S-3P2232	1044186

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Sensing range max.	Switching output	Adjustment	Connection type	Туре	Part no.
0 m 5 m PNP	PNP	Cable, Teach-in button	Cable with M8 male connector, 4-pin, 100 mm ¹⁾	WLG4SC- 3P3232B01	1070334
			Cable with M8 male connector, 4-pin, 120 mm	WLG4SC- 3P3232A00	1131816
		Male connector M8, 4-pin	WLG4SC- 3P2232A00	1057177	
			WLG4SC- 3P2232A70	1067763	
			WLG4SC- 3P2232A71	1067765	
				WLG4SC- 3P2232A91	1067766

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SICK AT A GLANCE

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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.

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