W4-3 Glass

Reliable detection of transparent objects

PHOTOELECTRIC SENSORS

SICK
Sensor Intelligence.

W4-3 Glass
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Technical data overview

Dimensions (W x H x D)	16 mm x 39.5 mm x 12 mm
Sensing range max.	0.01 m … 4.5 m [1] (depending on type)
Light source	PinPoint LED
Type of light	Visible red light
Enclosure rating	IP67 IP66
Housing material	Plastic ABS
Adjustment	Single teach-in button Cable IO-Link None Single teach-in button [2]

[1] Reflector PL80A.

[2] 2 s teach = 50 % switching threshold.

Product description

The WLG4-3 photoelectric retro-reflective sensor reliably detects transparent objects such as glass. Its small size is ideal for applications with limited mounting space. Adjusting these sensors can be done with the click of an easy-to-use teach-in pushbutton. Plus, these sensors don't require any brackets, making them easy to mount directly to the machine – even in tight spaces.

At a glance

- Fast and reliable setup via teach-in pushbutton
- Continuous threshold adjustment technology to detect objects in changing conditions such as temperature, contamination and reflector wear
- Versions without polarizing filters to better detect depolarizing objects such as PET bottles, CD sleeves and shrink-wrapped, glossy objects

Your benefits

- Reliable and quick setting via the push of a button
- Flat housing design eliminates alignment or mounting brackets, which saves time and money
- Low-cost machine integration due to small dimensions that enable mounting in areas with space restrictions
- Quick and easy setup due to highly visible intensive light spot
- The PinPoint LED's well-defined, intense light spot simplifies alignment
- Nearly all transparent objects can be reliably detected

Ordering information

Other models and accessories → www.sick.com/W4-3_Glass

- **Sensor principle:** Photoelectric retro-reflective sensor
- **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.
0.01 m … 1.5 m	PNP	Teach-in button	Cable with connector M8, 3-pin, 100 mm [1]	WLG4-3F3182S06	1044190
			Cable, 3-wire, 5 m [1]	WLG4-3F1482S04	1042291
0.01 m … 1.6 m	NPN	Teach-in button	Cable, 3-wire, 2 m [1]	WLG4-3E1382	1028138
		Cable, Teach-in button	Cable, 4-wire, 2 m [1]	WLG4-3E1184	1028140
	PNP	Teach-in button	Cable with connector M8, 3-pin, 100 mm [1]	WLG4-3F3182	1028135
			Connector M8, 3-pin	WLG4-3F2182	1028134
		Cable, Teach-in button	Male connector M8, 4-pin	WLG4-3F2284	1028137
0.01 m … 4.5 m	NPN	Teach-in button	Cable, 3-wire, 2 m [1]	WLG4-3E1332	1028131
			Connector M8, 3-pin	WLG4-3E2132	1028132
		Cable, Teach-in button	Cable, 4-wire, 2 m [1]	WLG4-3E1134	1028133
	PNP	Teach-in button	Cable with connector M8, 3-pin, 100 mm [1]	WLG4-3F3132	1028128
			Connector M8, 3-pin	WLG4-3F2132	1028127
		Cable, Teach-in button	Cable with M12 male connector, 4-pin, 150 mm [1]	WLG4-3F3434	1043683
			Cable with M8 male connector, 4-pin, 100 mm [1]	WLG4-3F3234	1028129
			Male connector M8, 4-pin	WLG4-3F2234	1028130
0.01 m … 4 m	PNP	Cable, Teach-in button	Cable with M8 male connector, 4-pin, 100 mm [1]	WLG4-3F3234S05	1043538

[1] Do not bend below 0 °C.

- **Sensor principle:** Photoelectric retro-reflective sensor
- **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.
0.01 m … 1.6 m	NPN	Teach-in button	Cable, 3-wire, 2 m [1]	WLG4-3N1382	1040493
	PNP	Teach-in button	Cable, 3-wire, 5 m [1]	WLG4-3P1482	1029897
			Connector M8, 3-pin	WLG4-3P2182	1044179

[1] Do not bend below 0 °C.

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Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.
0.01 m … 4.5 m	PNP	Teach-in button	Cable, 3-wire, 2 m [1]	WLG4-3P1332	1042844
			Connector M8, 3-pin	WLG4-3P2132	1029567
0.01 m … 4 m	PNP	None	Connector M8, 3-pin	WLG4-3P2132S07	1060007

[1] Do not bend below 0 °C.

- **Sensor principle:** Photoelectric retro-reflective sensor
- **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.
0.01 m … 4.5 m	PNP	Teach-in button	Male connector M8, 4-pin	WLG4-3K2232	1070194
				WLG4C-3P2232A00	1080933
				WLG4C-3P2232A70	1080934
				WLG4C-3P2232A71	1080935

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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