W8G

Photoelectric sensor detects transparent objects at close range

SICK
Sensor Intelligence.

Technical data overview

Dimensions (W x H x D)	11 mm x 31 mm x 20 mm
Functional principle detail	Without reflector minimum distance (autocollimation/coaxial optics)
Light source	LED
Type of light	Visible red light
Enclosure rating	IP67
Housing material	Plastic
Adjustment	Potentiometer
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Product description

The WL8G is a high-quality, miniature retro-reflective clear material photoelectric sensor for detection of transparent objects in close-range applications. Autocollimation optics enable the reflector to be positioned as close to the sensor's front face as necessary. The housing design, with M3 threaded mounting holes, ensures easy and secure installation.

At a glance

- Autocollimation
- Standard miniature housing with M3 threaded mounting holes
- Light/dark switching selectable via rotary switch
- Adjustable sensing range
- Necessary accessories are included with delivery

Your benefits

- Reliable object detection of transparent objects even at the shortest distances (no blind spot) or through narrow gaps
- Highly visible light spot makes alignment quick and easy
- Reliable detection of all materials, including small and/or transparent objects, min. attenuation 15 %
- All necessary accessories (bracket and reflector) are included with delivery, reducing installation and procurement costs
- M3 mounting hole provides quick installation

Ordering information

Other models and accessories ➜ www.sick.com/W8G

- **Functional principle:** Photoelectric retro-reflective sensor
- **Functional principle detail:** Without reflector minimum distance (autocollimation/coaxial optics)
- **Light source:** 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 … 3 m	NPN	Potentiometer	Cable, 3-wire, 2 m [1]	WL8G-N1131	6033183
			Connector M8, 3-pin	WL8G-N2131	6033185
			Male connector M8, 4-pin	WL8G-N2231	6033187
	PNP	Potentiometer	Cable with M12 male connector, 4-pin, 300 mm [1]	WL8G-P1131S03	6052330
			Cable with connector M8, 3-pin, 1,000 mm [1]	WLG8-P1131S04	1072259
			Cable with connector M8, 3-pin, 600 mm [1]	WL8G-P1131S02	1051347
			Cable, 3-wire, 2 m [1]	WL8G-P1131	6033184
			Connector M8, 3-pin	WL8G-P2131	6033186
			Male connector M8, 4-pin	WL8G-P2231	6033188
				WL8G-P2231S01	6036082

[1] Do not bend below 0 °C.

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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