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Product family overview



W150

Miniature photoelectric sensor family for applications with limited space

PHOTOELECTRIC SENSORS

SICK
Sensor Intelligence.



Technical data overview

Dimensions (W x H x D)	10 mm x 28 mm x 18 mm 10 mm x 28 mm x 17.5 mm (depending on type)
Sensing range max.	2 mm ... 100 mm [1] 10 mm ... 250 mm [1] 0 m ... 2.4 m [2] 0.01 m ... 0.7 m [2] 0 m ... 4.4 m (depending on type)
Light source	LED
Type of light	Visible red light
Enclosure rating	IP67
Housing material	Plastic ABS
Adjustment	Potentiometer, 5 turns / Potentiometer, 270° (depending on type) (depending on type)

[1] Object with 90 % reflectance (referred to standard white, DIN 5033).
[2] Reflector PL80A.

Product description

The W150 photoelectric sensors product family includes a background suppression sensor, an energetic proximity sensor, a retro-reflective sensor and a through-beam photoelectric sensor. This product family features an extra small design, which enables usage in the smallest of machines.

At a glance

- Extra small plastic housing
- IP 67 enclosure rating
- Highly visible red light
- Light or dark switching selectable by wire

Your benefits

- Reliable detection of the smallest objects, regardless of color or surface qualities
- Detection of objects regardless of color or surface qualities
- Suitable for high-speed applications
- Brackets included with delivery, ensuring quick and easy installation
- Highly visible red light simplifies alignment

Ordering information

Other models and accessories ➜ www.sick.com/W150

- **Sensor principle:** Photoelectric proximity sensor
- **Detection principle:** Background suppression
- **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.
2 mm ... 100 mm	NPN	Potentiometer	Cable, 4-wire, 2 m [1]	WT150-N162	6011045
			Cable, 4-wire, 5 m [1]	WT150-N165	6011046
			Male connector M8, 4-pin	WT150-N460	6011047
	PNP	Potentiometer	Cable, 4-wire, 2 m [1]	WT150-P162	6011048
			Cable, 4-wire, 5 m [1]	WT150-P165	6011049
			Male connector M8, 4-pin	WT150-P460	6011050
				WT150-P460S03	1022302
				WT150-P460S05	6028040

[1] Do not bend below 0 °C.

- **Sensor principle:** Photoelectric proximity sensor
- **Detection principle:** Energetic
- **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.
10 mm ... 250 mm	NPN	Potentiometer	Cable, 4-wire, 2 m [1]	WT150-N132	6011039
			Male connector M8, 4-pin	WT150-N430	6011041
	PNP	Potentiometer	Cable, 4-wire, 2 m [1]	WT150-P132	6011042
			Male connector M8, 4-pin	WT150-P430	6011044

[1] Do not bend below 0 °C.

- **Sensor principle:** Photoelectric retro-reflective sensor
- **Detection principle:** Dual lens
- **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.
0.01 m ... 0.7 m	NPN	Potentiometer	Cable, 4-wire, 2 m [1]	WL150-N122	6020683
			Male connector M8, 4-pin	WL150-N420	6020685
	PNP	Potentiometer	Cable, 4-wire, 2 m [1]	WL150-P122	6020686
			Cable, 4-wire, 5 m [1]	WL150-P125	6020687
			Male connector M8, 4-pin	WL150-P420	6020688
0 m ... 2.4 m	NPN	Potentiometer	Cable, 4-wire, 2 m [1]	WL150-N132	6011033
			Cable, 4-wire, 5 m [1]	WL150-N135	6011034
			Male connector M8, 4-pin	WL150-N430	6011035
	PNP	Potentiometer	Cable, 4-wire, 0.5 m [2]	WL150-P132S06	6035762
			Cable, 4-wire, 2 m [1]	WL150-P132	6011036
			Cable, 4-wire, 5 m [1]	WL150-P135	6011037
			Male connector M8, 4-pin	WL150-P430	6011038

[1] Do not bend below 0 °C.
[2] Cable with Berg-Dubox 65240-004LF male connector.

- **Sensor principle:** Through-beam photoelectric sensor
- **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 ... 4.4 m	NPN	Potentiometer	Cable, 4-wire, 2 m [1]	WS/WE150-N132	6011027
			Male connector M8, 4-pin	WS/WE150-N430	6011029
	PNP	Potentiometer	Cable, 4-wire, 2 m [1]	WS/WE150-P132	6011030
			Male connector M8, 4-pin	WS/WE150-P430	6011032

[1] Do not bend below 0 °C.

- **Sensor principle:** Through-beam photoelectric sensor
- **Light source:** LED
- **Voltage type:** DC
- **Type of light:** visible red light

Sensing range max.	Adjustment	Connection type	Type	Part no.
0 m ... 4.4 m	Potentiometer	Cable, 4-wire, 5 m [1]	WS/WE150-S01	1018548

[1] Receiver.

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.

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For us, that is “Sensor Intelligence.”

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