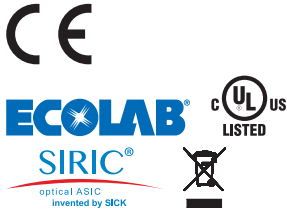


## W12 Teflon

SMALL PHOTOELECTRIC SENSORS

**SICK**  
Sensor Intelligence.



Technical data overview

<b>Dimensions (W x H x D)</b>	15.6 mm x 48.5 mm x 42 mm
<b>Sensing range max.</b>	30 mm ... 150 mm <sup>1)</sup> 20 mm ... 350 mm <sup>1)</sup> 20 mm ... 600 mm <sup>1)</sup> 0 m ... 7 m <sup>2)</sup> 0 m ... 20 m 0 m ... 4 m <sup>2)</sup>
<b>Light source</b>	LED
<b>Type of light</b>	Visible red light / Infrared light (depending on type)
<b>Enclosure rating</b>	IP66 IP67 IP69K
<b>Housing material</b>	PTFE coating
<b>Adjustment</b>	Potentiometer, 5 turns Double teach-in button Potentiometer, 11 turns

<sup>1)</sup> Object with 90 % reflectance (referred to standard white, DIN 5033).

<sup>2)</sup> Reflector PL80A.

## Ordering information

Other models and accessories → [www.sick.com/W12\\_Teflon](http://www.sick.com/W12_Teflon)

- **Sensor principle:** Photoelectric proximity sensor
- **Detection principle:** Foreground 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.
30 mm ... 150 mm	PNP	Potentiometer	Male connector M12, 4-pin	WTF12-3P2431T01	1041407

- **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.
20 mm ... 350 mm	PNP	Potentiometer	Male connector M12, 4-pin	WTB12-3P2431T01	1041414
		Teach-in button	Male connector M12, 4-pin	WTB12-3P2433T01	1048278

- **Sensor principle:** Photoelectric proximity sensor
- **Detection principle:** Background suppression
- **Light source:** LED
- **Voltage type:** DC
- **Switching mode:** Light/dark switching
- **Type of light:** Infrared light

Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.
20 mm ... 600 mm	PNP	Potentiometer	Male connector M12, 4-pin	WTB12-3P2411T01	1041425

- **Sensor principle:** Photoelectric retro-reflective sensor
- **Detection principle:** autocollimation
- **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 ... 7 m	NPN	Potentiometer	Male connector M12, 4-pin	WL12-3N2431T01	1041443
	PNP	Potentiometer	Male connector M12, 4-pin	WL12-3P2431T01	1041439

- **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 ... 20 m	PNP	Potentiometer	Male connector M12, 4-pin	WSE12-3P2431T01	1041461

- **Sensor principle:** Through-beam photoelectric sensor
- **Light source:** LED
- **Voltage type:** DC
- **Switching mode:** Light/dark switching
- **Type of light:** Infrared light

Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.
0 m ... 20 m	PNP	Potentiometer	Male connector M12, 4-pin	WSE12-3P2411T01	1041465

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

Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.
0 m ... 4 m	PNP, NPN	Potentiometer	Male connector M12, 5-pin	WL12G-3B2531T01	1041458

## 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.”

## WORLDWIDE PRESENCE:

Contacts and other locations –[www.sick.com](http://www.sick.com)