



W8 Laser

Laser photoelectric proximity sensor with background suppression for close-range applications

MINIATURE PHOTOELECTRIC SENSORS

SICK
Sensor Intelligence.



Technical data overview

Dimensions (W x H x D)	11 mm x 31 mm x 20 mm
Sensing range max.	5 mm ... 300 mm ¹⁾ (depending on type)
Light source	Laser
Type of light	Visible red light
Enclosure rating	IP67
Housing material	Plastic ABS
Adjustment	Potentiometer, 4 turns

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



Product description

The WTB8L is a high-quality miniature photoelectric proximity sensor with laser emitter LEDs and outstanding background suppression specially designed for close-range applications. High switching frequencies of 2 kHz make these sensors suitable for a broad range of applications. The housing design, with M3 threaded mounting holes, ensures easy and secure mounting.

At a glance

- Laser class 1
- Background suppression
- Standard miniature housing with M3 threaded mounting holes
- Switching frequency up to 2 kHz
- Light/dark switching via rotary switch
- Mounting bracket BEF-W100-A is included with delivery

Your benefits

- Highly flexible design and operational capabilities due to precise background suppression
- Reliable detection of small objects, regardless of color or surface qualities
- Rapid switching frequency reliably detects objects travelling at high speeds which allows to optimize the production processes
- Highly visible laser light spot simplifies alignment
- All necessary accessories are included with delivery, reducing installation and procurement costs

Ordering information

Other models and accessories → www.sick.com/W8_Laser

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

Sensing range max.	Switching output	Adjustment	Connection type	Laser class	Type	Part no.
30 mm ... 300 mm	NPN	Potentiometer	Cable, 4-wire, 2 m ¹⁾	1	WTB8L-N1131	6033216
			Connector M8, 3-pin	1	WTB8L-N2131	6033218
			Male connector M8, 4-pin	1	WTB8L-N2231	6033220
	PNP	Potentiometer	Cable, 4-wire, 2 m ¹⁾	1	WTB8L-P1131	6033217
			Connector M8, 3-pin	1	WTB8L-P2131	6033219
			Male connector M8, 4-pin	1	WTB8L-P2231	6033221
	NPN	Potentiometer	Cable, 4-wire, 2 m ¹⁾	1	WTB8L-N1111	6033222
			Connector M8, 3-pin	1	WTB8L-N2111	6033224
			Male connector M8, 4-pin	1	WTB8L-N2211	6033226
5 mm ... 100 mm	PNP	Potentiometer	Cable, 4-wire, 2 m ¹⁾	1	WTB8L-P1111	6033223
			Connector M8, 3-pin	1	WTB8L-P2111	6033225
			Male connector M8, 4-pin	1	WTB8L-P2211	6033227

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.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com