



MultiPulse

Switch to autopilot

PHOTOELECTRIC SENSORS

SICK
Sensor Intelligence.



Technical data overview

Dimensions (W x H x D)	16 mm x 39.5 mm x 12 mm
Light source	PinPoint LED
Type of light	Visible red light
Enclosure rating	IP67, IP66
Housing material	Plastic
Adjustment	Potentiometer / none (depending on type)

Product description

In addition to the presence signal itself, the MultiPulse sensor also delivers freedom from errors as well as the status of the application. As a result, the control is informed that the sensor has definitely detected the object and that there are no defects such as wire breakage or a sensor malfunction. A second switching point means that sensor manipulation is virtually impossible. This is achieved thanks to a simple resonant circuit that is established by the object, optics, and sensor electronics. The control monitors the resonant circuit, which oscillates at 2 Hz or 10 Hz. The sensor only has one connecting wire.

At a glance

- Object detection and sensor monitoring
- Verification that the object is present and the sensor has not experienced a malfunction
- The space-saving miniature housing allows the sensor to be integrated in the tightest machine environments
- Precise background suppression ensures that all types of objects are reliably detected regardless of their surface and properties
- Operating range from 3 to 150 mm
- A range of variants with and without settings, line-shaped light spot, and window function (30 mm ... 150 mm) are available

Your benefits

- Increase in productivity through sensor monitoring. The machine controller monitors the status of the sensor including wire breakage and short-circuits.
- Reduction in costs: object detection and sensor monitoring takes place via a single output
- High operational safety and reliability thanks to SIRIC® chip technology from SICK
- Quick and easy commissioning due to bright and highly visible PinPoint light spots

Ordering information

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

- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression
- **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.
15 mm ... 60 mm	PNP	None	Connector M8, 3-pin	WTB4-3P2100S93	1094827
1 mm ... 150 mm	PNP	None	Connector M8, 3-pin	WTB4-3P2102S98	1100292
1 mm ... 25 mm	PNP	None	Connector M8, 3-pin	WTB4-3P2100S90	1092510
28 mm ... 165 mm	PNP	None	Cable with connector M8, 3-pin, 300 mm	WTB4-3P3100S05	1076591
			Connector M8, 3-pin	WTB4-3P2100S79	1064914
				WTB4-3P2100S81	1067527
4 mm ... 150 mm	PNP	Potentiometer	Cable with connector M8, 3-pin, 300 mm ¹⁾	WTB4-3P3061S20	1029881
				WTB4-3P3171S65	1054788
6 mm ... 150 mm	PNP	Potentiometer	Cable with connector M8, 3-pin, 300 mm ¹⁾	WTB4-3P3061S62	1053703

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