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TECHNOLOGY GROUP

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Product family overview



MultiLine

Two is better than one

PHOTOELECTRIC SENSORS

SICK
Sensor Intelligence.



Technical data overview

Dimensions (W x H x D)	16 mm x 39.5 mm x 12 mm
Sensing range max.	5 mm ... 120 mm [1]
Light source	PinPoint LED
Type of light	Visible red light / Infrared light (depending on type)
Enclosure rating	IP67 IP66
Housing material	Plastic ABS
Adjustment	Single teach-in button

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

Product description

The MultiLine sensor: two photoelectric proximity sensors in one housing with an intelligent logical link. The MultiLine sensor detects critical and structured surfaces with an unprecedented level of reliability.

At a glance

- Two logical and intelligently linked sensors with background suppression in one miniature housing offer the highest ruggedness for object detection
- Consistent, reliable detection of structured and perforated objects such as PCBs
- Consistent, reliable detection of reflective and irregular objects such as coffee packs and soup sachets
- Effective operating range from 40 mm to 120 mm
- Simple adjustment via teach-in button

Your benefits

- The MultiLine sensor facilitates faster production sequences, since the distances between objects can be reduced
- The sensor position no longer needs to be modified for format changes, since the sensor is able to detect objects universally regardless of their position. This saves time and money
- The reliable sensor signal (from the leading to the trailing edge) places fewer demands on the control software, since it no longer needs to be debounced or evaluated
- The MultiLine sensor offers high process reliability because all objects are detected independently of their structure, geometry, and surface properties
- Placing the sensor into operation is as easy as pressing a button, meaning that fast and reliable commissioning without complicated operating algorithms is guaranteed

Ordering information

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

- **Sensor principle:** Photoelectric proximity sensor
- **Detection principle:** Background suppression
- **Light source:** PinPoint 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.
5 mm ... 120 mm	NPN	Teach-in button	Cable, 4-wire, 2 m [1]	WTB4-3N1192	1059272
				WTB4-3N1192S84	1075187
	PNP	Teach-in button	Male connector M8, 4-pin [1]	WTB4-3P2292	1062850

[1] Do not bend below 0 °C.

- **Sensor principle:** Photoelectric proximity sensor
- **Detection principle:** 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.
5 mm ... 120 mm	NPN	Potentiometer	Cable, 3-wire, 2 m [1]	WTB4-3N1392S80	1065824
		Teach-in button	Cable with connector M8, 3-pin, 100 mm [1]	WTB4-3N3192S91	1092722
	PNP	Teach-in button	Cable with connector M8, 3-pin, 100 mm [1]	WTB4-3P3192	1067833
			Connector M8, 3-pin [1]	WTB4-3P2192	1058268

[1] Do not bend below 0 °C.

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

Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.
5 mm ... 120 mm	PNP	Teach-in button	Cable with connector M8, 3-pin, 100 mm [1]	WTB4-3P3192S92	1093861
			Connector M8, 3-pin [1]	WTB4-3P2192S87	1085649

[1] Do not bend below 0 °C.

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

Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.
5 mm ... 120 mm	NPN	Potentiometer	Cable, 3-wire, 2 m [1]	WTB4-3E1392S88	1087419

[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

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