



Photoelectric sensors
MultiLine Sensor, Photoelectric proximity sensor,
multi-background suppression

WTB4-3N1192



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Model Name > [WTB4-3N1192](#)
Part No. > [1059272](#)



Illustration may differ

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 structures and perforated objects such as e-cards
- Consistent, reliable detection of reflective and irregular objects such as blister packs and soup sachets on conveyor belts
- Maximum sensing range 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 independently of their position. This saves time and money
- The reliable signal of the sensor from the arriving to the departing edge places less 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
- And placing the sensor into operation is as easy as pressing a button. A fast and reliable commissioning without complicated operating algorithms is thus given



Features

Sensor/detection principle:	Photoelectric proximity sensor, multi-background suppression
Dimensions (W x H x D):	16 mm x 39.5 mm x 12 mm
Housing design (light emission):	Rectangular
Sensing range max.:	5 mm ... 120 mm
Sensing range:	15 mm ... 120 mm
Type of light:	Visible red light
Light source:	PinPoint LED ¹⁾
Wave length:	650 nm
Teach-in:	Single teach-in button
Adjustment:	Teach-in button
Light spot size (distance):	40 mm

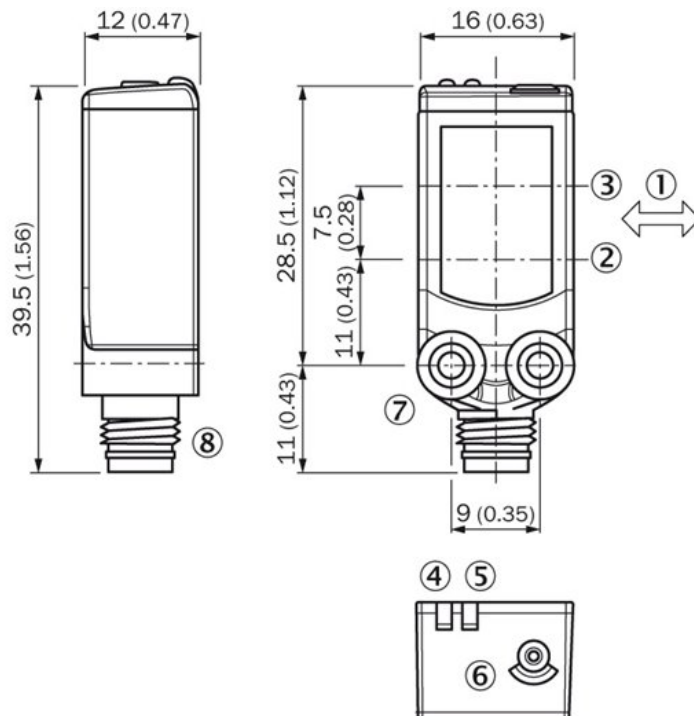
¹⁾ Average service life of 100,000 h at T_A = +25 °C

Mechanics/electronics

Supply voltage:	10 V DC ... 30 V DC ¹⁾
Power consumption:	≤ 30 mA ²⁾
Output type:	NPN
Output function:	Complementary
Switching mode:	Light/dark-switching
Output current I _{max} :	≤ 100 mA
Response time:	< 1.2 ms ³⁾
Switching frequency:	400 Hz ⁴⁾
Connection type:	Cable, 4-wire, 2 m ⁵⁾
Circuit protection:::	A, C, D ⁶⁾ ⁷⁾ ⁸⁾
Protection class:	III
Weight:	30 g
Housing material:	ABS, Plastic
Optics material:	PMMA
Enclosure rating:	IP 67 IP 66
Special feature:	For transparent objects
Ambient operating temperature:	-40 °C ... 60 °C
Ambient storage temperature:	-40 °C ... 75 °C

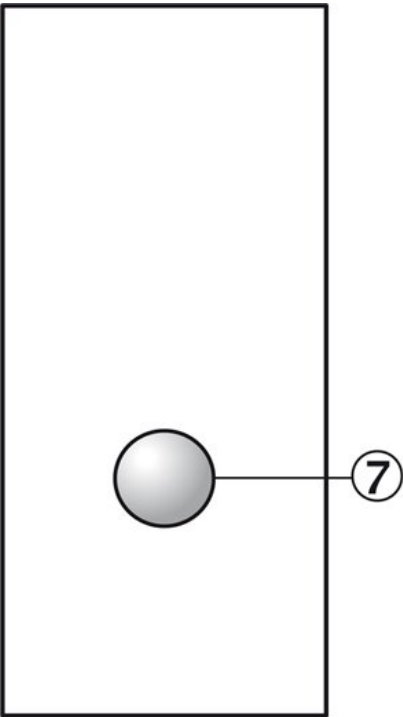
¹⁾ Limit values, operation in short-circuit protected network max. 8 A ²⁾ Without load ³⁾ Signal transit time with resistive load ⁴⁾ With light/dark ratio 1:1 ⁵⁾ Do not bend below 0 °C ⁶⁾ A = V_S connections reverse-polarity protected ⁷⁾ C = interference suppression ⁸⁾ D = outputs overcurrent and short-circuit protected

Dimensional drawing



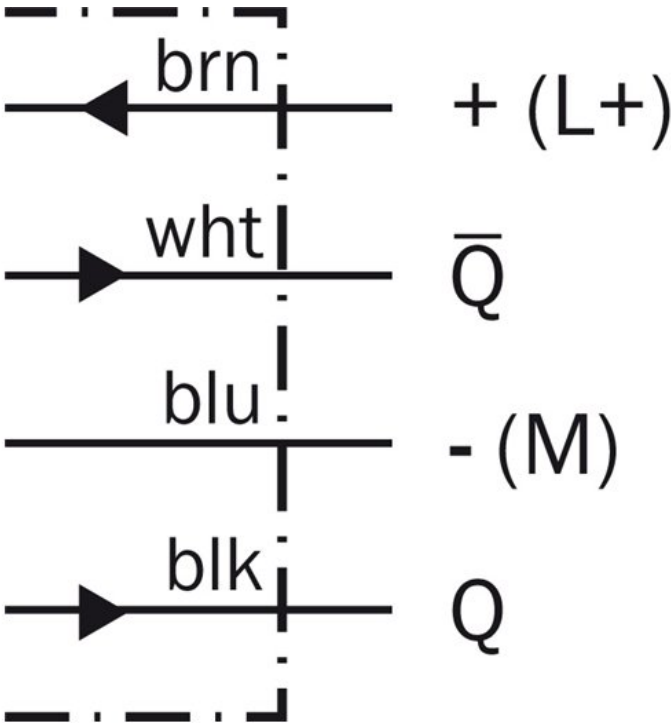
- [1] Standard direction of the material being scanned
- [2] Optical axis sender
- [3] Optical axis receiver
- [4] Status indicator LED,
yellow: Status of received light beam
- [5] Status indicator LED green: power on
- [6] Teach-in button
- [7] Threaded mounting hole M3
- [8] Connection

Adjustments possible

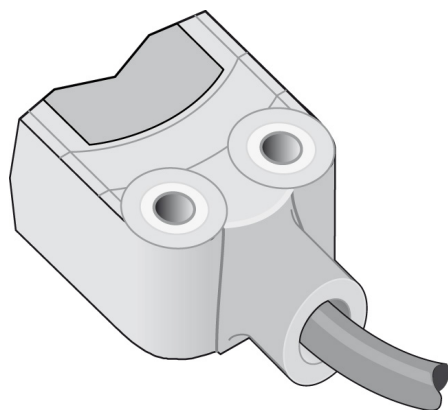


[1] Teach-in button

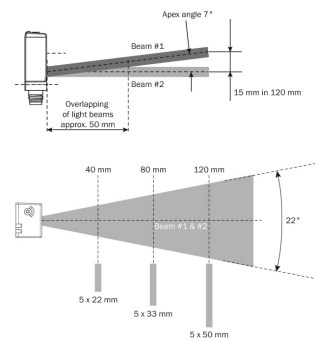
Connection diagram



Connection type



Light spot size



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