



Photoelectric sensors  
MultiPac, Photoelectric proximity sensor,  
Background suppression

WTB27-3N2483



**Model Name** > [WTB27-3N2483](#)  
**Part No.** > [1056385](#)



*Illustration may differ*

**At a glance**

- Two redundant receiver arrays from SICK
- Products can be detected using a higher angle of incidence. This removes the typical mounting restrictions associated with detecting these products.
- The newest SICK chip technology
- Sensing distance up to 500 mm
- Fast and precise commissioning thanks to the highly visible light spot

**Your benefits**

- Redundant receiver arrays provide reliable detection of shiny, gloss, dark, or irregular shaped objects without signal interruptions
- In applications involving plastic wrapped bottles, the MultiPac replaces current solutions which require expensive mechanical height adjustment
- Allows overhead detection of product that is transported on a single conveyor belt but seperated into multiple lanes



**Features**

Sensor/detection principle:	Photoelectric proximity sensor, Background suppression
Dimensions (W x H x D):	24.6 mm x 80.6 mm x 54.8 mm
Housing design (light emission):	Rectangular
Sensing range max.:	30 mm ... 500 mm <sup>1)</sup>
Sensing range:	100 mm ... 500 mm
Type of light:	Visible red light
Light source:	PinPoint LED <sup>2)</sup>
Wave length:	625 nm
Adjustment:	Double teach-in button
Light spot size (distance):	Ø 12 mm (500 mm)

<sup>1)</sup> Object with 90 % reflectance (referred to standard white, DIN 5033)    <sup>2)</sup> Average service life of 100,000 h at T<sub>A</sub> = +25 °C

**Mechanics/electronics**

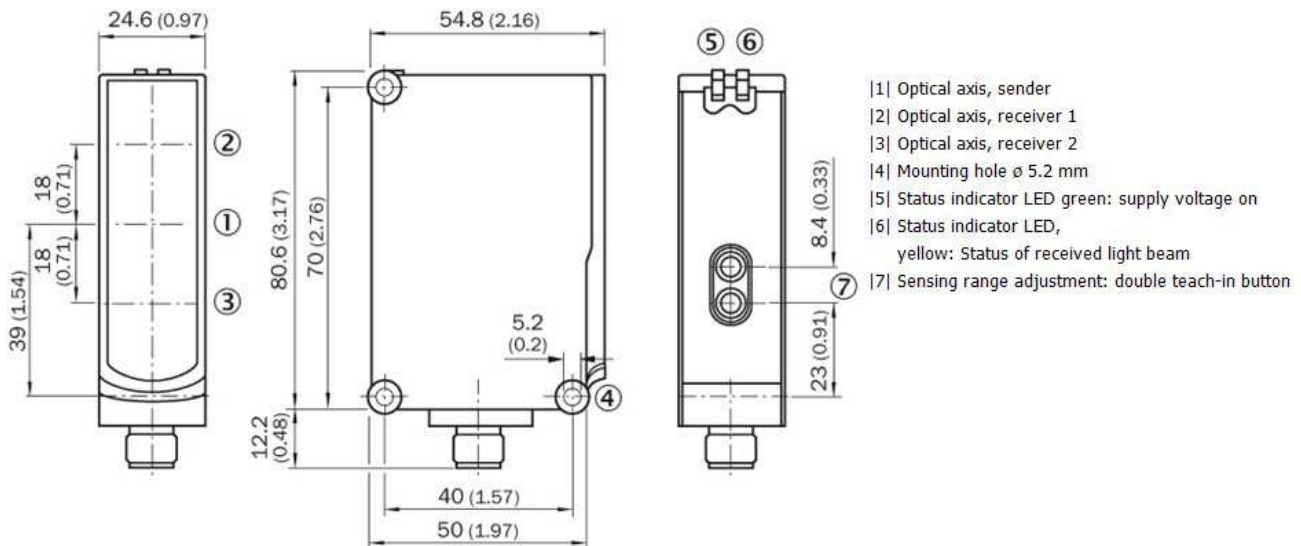
Supply voltage:	10 V DC ... 30 V DC <sup>1)</sup>
Ripple:	≤ 5 Vpp <sup>2)</sup>
Power consumption:	≤ 55 mA <sup>3)</sup>
Output type:	NPN
Output function:	Complementary

Switching mode:	Light/dark switching
Output current I <sub>max</sub> ..:	≤ 100 mA
Response time:	≤ 5 ms <sup>4)</sup>
Switching frequency:	100 Hz <sup>5)</sup>
Connection type:	Connector M12, 4-pin
Circuit protection:::	A, B, C <sup>6) 7) 8)</sup>
Protection class:	II <sup>9)</sup>
Weight:	150 g
IO-Link:	-
Special device:	-
Optics material:	PMMA
Enclosure rating:	IP 66 IP 67
Ambient operating temperature:	-30 °C ... +60 °C
Ambient storage temperature:	-40 °C ... +75 °C
UL File No.:	NRKH.E181493 & NRKH7.E181493
Signal voltage PNP HIGH/LOW:	Approx. V <sub>S</sub> - 2.5 V / 0 V
Signal voltage NPN HIGH/LOW:	Approx. V <sub>S</sub> / < 2.5 V
Housing material:	ABS, Plastic

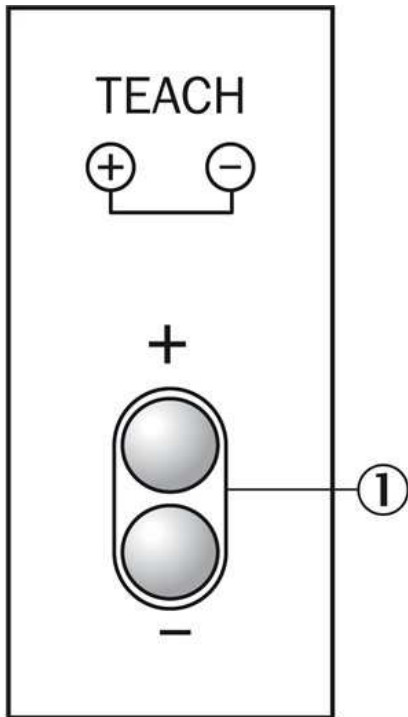
- 1) Limit values, operation in short-circuit protected network max. 8 A    2) May not exceed or fall short of V<sub>S</sub> tolerances    3) Without load    4) Signal transit time with resistive load  
5) With light/dark ratio 1:1    6) A = V<sub>S</sub> connections reverse-polarity protected    7) B = inputs and output reverse-polarity protected    8) C = interference suppression    9)

Reference voltage: 50 V DC

### Dimensional drawing

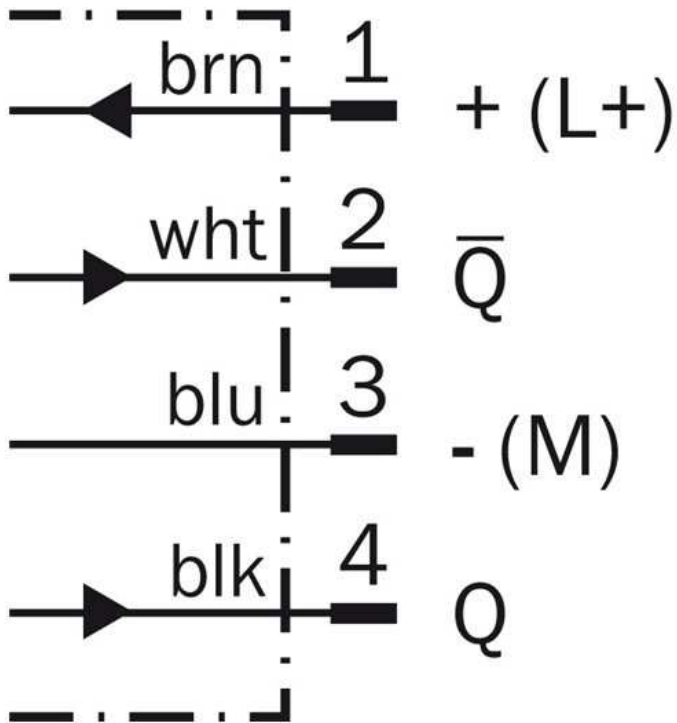


Adjustments possible

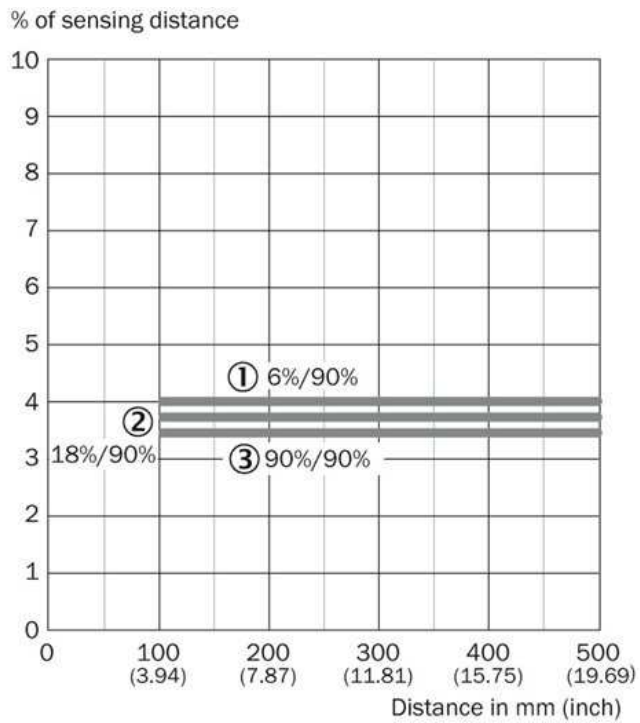


|1| Double teach-in button

Connection diagram



## Characteristic curve



## Connection type



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