



Photoelectric sensors
MultiPac, Photoelectric proximity sensor,
Background suppression

WTB27-3N2483



Photoelectric sensors MultiPac, Photoelectric proximity sensor, Background suppression

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



Illustration may differ

At a glance

- Two redundant receiver arrays from SICK
- The newest SICK chip technology
- Intense, visible red HighPower LED
- 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
- Products can be detected using a higher angle of incidence. This removes the typical mounting restrictions associated with detecting these products.
- 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 separated 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 ¹⁾
Sensing range:	100 mm ... 500 mm
Type of light:	Visible red light
Light source:	LED ²⁾
Wave length:	625 nm
Adjustment:	Teach-in: double teach button
Light spot size (distance):	Ø 12 mm (500 mm)

¹⁾ Object with 90 % reflectance (referred to standard white DIN 5033) ²⁾ Average service life of 100,000 h at T_A = +25 °C

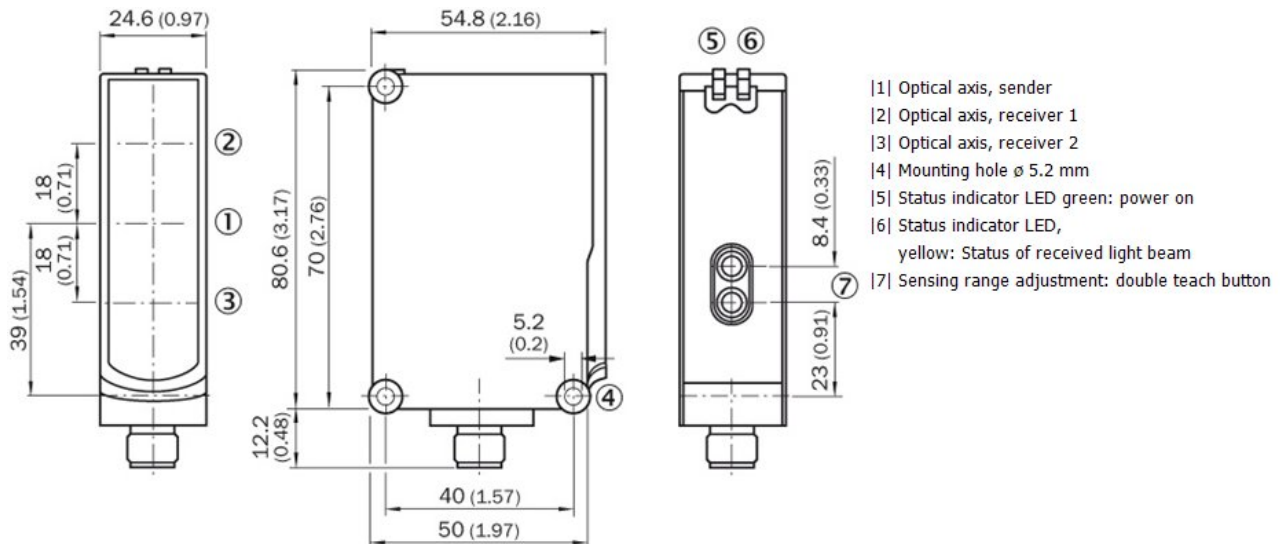
Mechanics/electronics

Supply voltage:	10 V DC ... 30 V DC ¹⁾
Power consumption:	≤ 55 mA ²⁾
Output type:	NPN
Output function:	Complementary

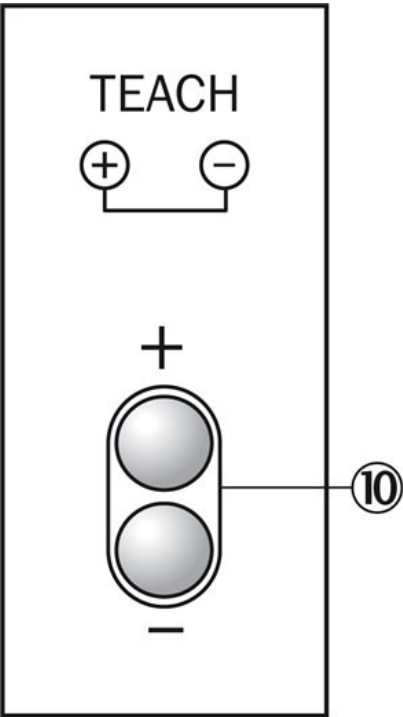
Switching mode:	Light/dark-switching
Signal voltage PNP HIGH/LOW:	Approx. $V_S - 2.5 \text{ V} / 0 \text{ V}$
Signal voltage NPN HIGH/LOW:	Approx. $V_S / < 2.5 \text{ V}$
Output current I_{max} :	$\leq 100 \text{ mA}$
Response time:	$\leq 5 \text{ ms}$ ³⁾
Switching frequency:	100 Hz ⁴⁾
Connection type:	Connector M12, 4-pin
Circuit protection:::	A, B, C ^{5) 6) 7)}
Protection class:	II ⁸⁾
Weight:	150 g
IO-Link:	-
Special device:	-
Housing material:	ABS, Plastic
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

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⁾ $A = V_S$
 connections reverse-polarity protected ⁶⁾ B = inputs and output reverse-polarity protected ⁷⁾ C = interference suppression ⁸⁾ Reference voltage 50 V DC

Dimensional drawing

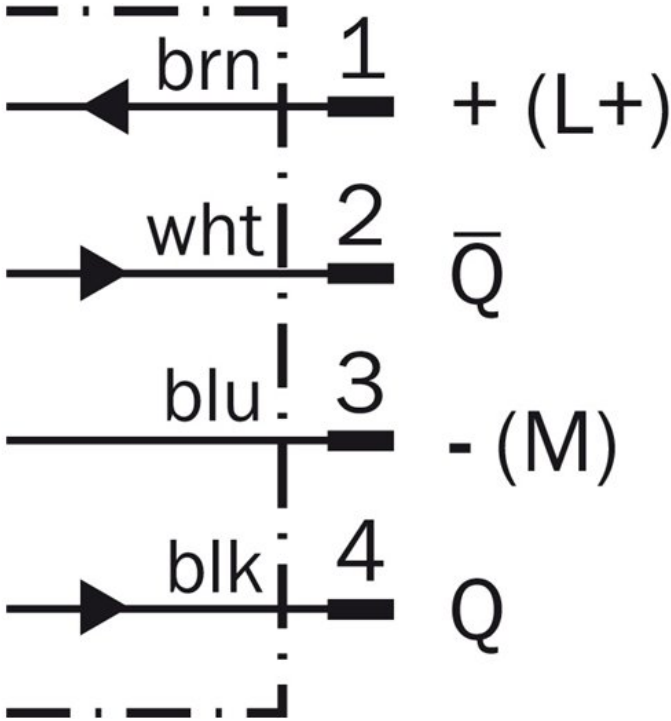


Adjustments possible

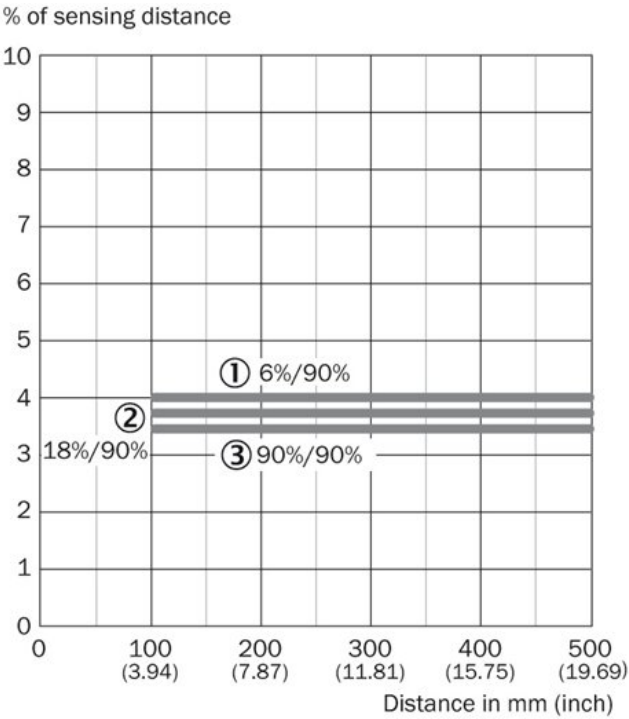


[1] Double teach-in button

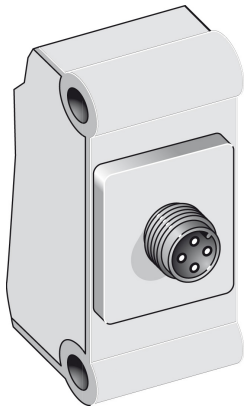
Connection diagram



Characteristic curve



Connection type



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