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Photoelectric sensors
W4-3, Photoelectric proximity sensor, Background suppression

WTV4-3P3122

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Model Name > WTV4-3P3122
Part No. > 1046411

Illustration may differ

At a glance

- Sensing range from 4 - 50 mm
- Reliable detection of planar, highly transparent and shiny objects at distances of 20 to 25 mm
- 5-turn potentiometer for precise adjustment
- Large, consistent light spot
- Rugged plastic housing with M3 threaded metal inserts
- IR versions available for detection of jet-black objects with a remission < 1%
- Versions available with linear light spot

Your benefits

- Low-cost machine design since shiny and transparent objects are directly detected, making a separate reflector or through-beam system unnecessary
- Less mounting and setup time since no alignment is required
- Rugged mounting system with M3 threaded metal inserts reduces maintenance costs due to a long service life
- Reliable object detection due to best-in-class background suppression and high immunity to ambient light

Features

Sensor/detection principle:	Photoelectric proximity sensor, Background suppression
Dimensions (W x H x D):	16 mm x 39.5 mm x 12 mm
Housing design (light emission):	Rectangular, Flat
Sensing range max.:	4 mm ... 50 mm [1)]
Sensing range:	15 mm ... 50 mm [2)]
Type of light:	Infrared light
Light source:	PinPoint LED [3)]
Wave length:	880 nm
Teach-in:	Single teach-in button
Adjustment:	Teach-in
Light spot size (distance):	Ø 10 mm (40 mm)

[1)] [2)] Object with 90 % reflectance (referred to standard white DIN 5033) [3)] Average service life of 100,000 h at T_A = +25 °C

Mechanics/electronics

Supply voltage:	10 V DC ... 30 V DC [1)]
Ripple:	< 5 Vpp [2)]
Power consumption:	≤ 20 mA [3)]

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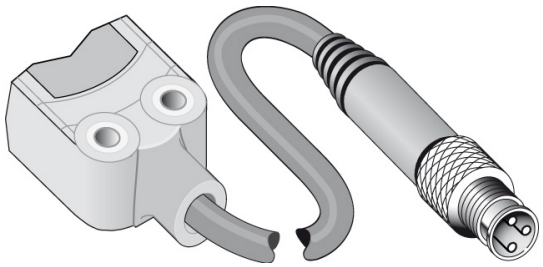
Output type:	PNP
Switching mode:	Light switching
Output current Imax.:	≤ 100 mA
Response time:	< 0.5 ms [4]
Switching frequency:	1,000 Hz [5]
Connection type:	Cable with connector M8, 4-pin, 100 mm [6]
Cable material:	PVC
Conductor cross-section:	0.14 mm²
Cable diameter:	Ø 3.4 mm
Circuit protection:::	A, C, D [7] [8] [9]
Protection class:	III
Weight:	30 g
Housing material:	ABS, Plastic
Optics material:	PMMA
Enclosure rating:	IP 67 IP 66
Special feature:	V-optics
Ambient operating temperature:	-40 °C ... 60 °C
Ambient storage temperature:	-40 °C ... 75 °C
UL File No.:	NRKH.E181493 & NRKH7.E181493

[1] Limit values [2] May not exceed or fall short of V_S tolerances [3] Without load [4] Signal transit time with resistive load [5] With light/dark ratio 1:1 [6] Do not bend below 0 °C [7] A = V_S connections reverse-polarity protected [8] C = interference suppression [9] D = outputs overcurrent and short-circuit protected

Connection type



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