Diffuse sensors with background suppression

O200.GR-PV1T.72NV/E026_H006

Diffuse sensors with background suppression - miniature

Article number: 11214893

Overview

- Outstanding reliability and unrivalled immunity against ambient light
- Manipulation-proof, simple teach-in via qTeach or line teach
- IO-Link for extended parameterization options and additional diagnostic data
- Quick mounting by means of M3 threaded bushes made of stainless steel



Picture similar

Technical data

General data	
Type	Background suppression
Sensing distance Tw	15 … 72 mm
Sensing range Tb	7 … 80 mm
Smallest object recognizable typ.	0.25 mm at 40 mm
Power on indication	LED green
Alignment / soiled lens indicator	Flashing output indicator
Output indicator	LED yellow
Sensing distance adjustment	qTeach
Suppression of reciprocal influence	Yes
Alignment optical axis	< 1,5°
Light Source	
Light source	Pulsed red LED
Wave length	644 nm
Electrical data	
Response time / release time	< 0.5 ms
Voltage supply range +Vs	10 … 30 VDC
Current consumption max. (no load)	40 mA (@ 10 VDC)

Electrical data	
Current consumption typ.	16 mA (@ 24 VDC)
Voltage drop Vd	<2 VDC
Output function	Light / dark operate
Output circuit	PNP complementary
Output current	50 mA
Short circuit protection	Yes
Reverse polarity protection	Yes
Mechanical data	
Width / diameter	8 mm
Height / length	25.1 mm
Depth	14.1 mm
Design	Rectangular
Mechanical mounting	Threaded sleeves M3 (stainless steel)
Housing material	Plastic (ASA, PMMA)
Front (optics)	PMMA
Connection types	Flylead connector M8 4 pin, L=200 mm
Cable characteristics	PVC / PVC 4 x 0.08 mm²
Ambient conditions	
Protection class	IP 67
Operating temperature	-25 … +50 °C

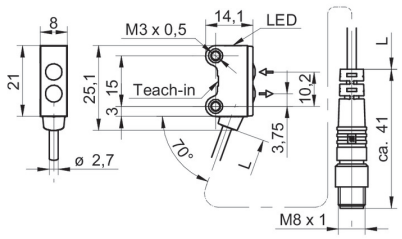
The product features and technical data specified do not express or imply any warranty. Technical modifications subject to change.
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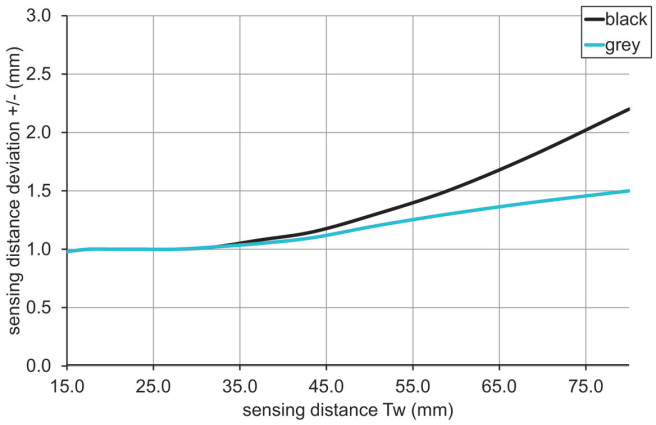
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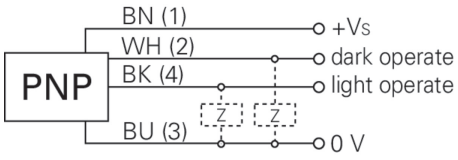
Dimension drawing



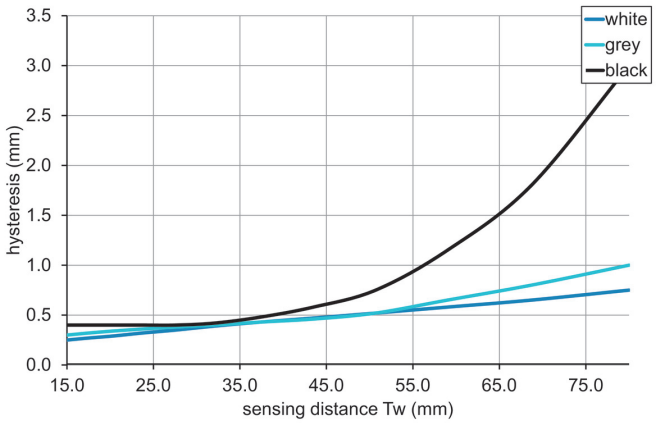
Sensing distance diagram



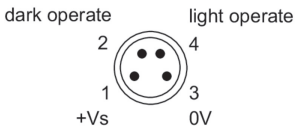
Connection diagram



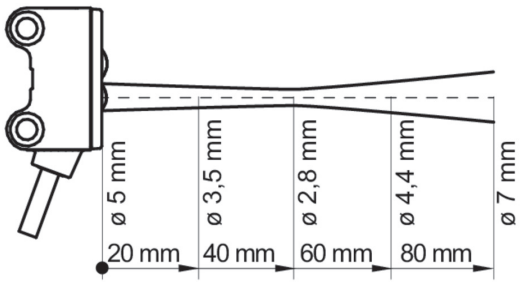
Hysteresis curve



Pin assignment



Beam characteristic (typically)



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