Diffuse sensors with background suppression

O200.GP-NV1T.72NV/H006_T003

Diffuse sensors with background suppression - miniature

Article number: 11212666

Overview

- Outstanding reliability and unrivalled immunity against ambient light
- Baumer PinPoint LED: Small, homogeneous light spot with sharp edges
- qTeach - tamper-proof, simple teach-in with ferromagnetic tool
- Intiutive Xpress Teach / 1-Step Teach method
- Quick mounting by means of M3 threaded bushes made of stainless steel
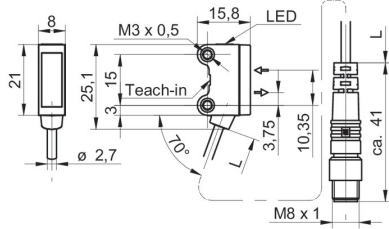
Picture similar

Technical data

General data

Type	Background suppression
Light source	Pulsed PinPoint LED
Sensing distance Tw	20 … 120 mm
Sensing range Tb	3 … 132 mm
Smallest object recognizable typ.	0,25 mm at 40 mm
Alignment / soiled lens indicator	Flashing output indicator
Power on indication	LED green
Output indicator	LED yellow
Sensing distance adjustment	qTeach / 1-Step Teach-in
Wave length	644 nm
Suppression of reciprocal influence	Yes
Alignment optical axis	< 1,5°

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	NPN 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	15,8 mm
Type	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

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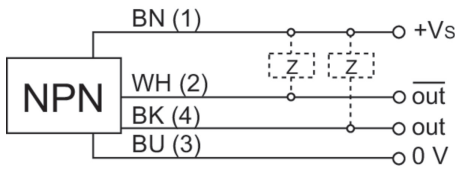# O200.GP-NV1T.72NV/H006_T003

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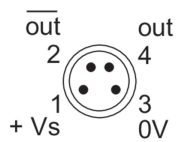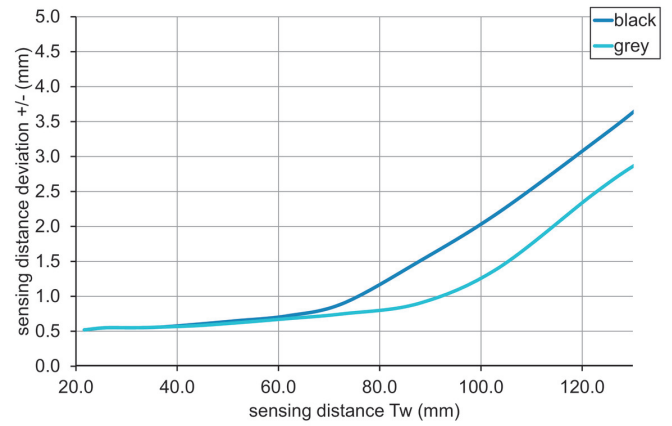
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Dimension drawing

Connection diagram

Pin assignment
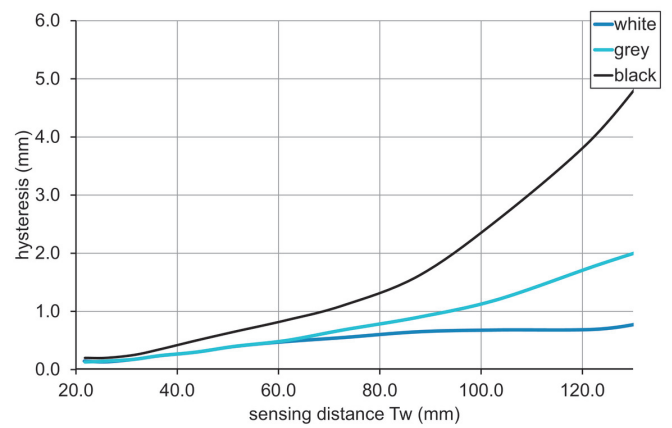

Beam characteristic (typically)

Sensing distance diagram

Hysteresis curve

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