Baumer
Passion for Sensors

Diffuse sensors with background suppression

O200.GP-NV1T.72NV/B005

Diffuse sensors with background suppression - miniature

Article number: 11231204

Overview

- Outstanding reliability and unrivalled immunity against ambient light
- Baumer PinPoint LED: Small, homogeneous light spot with sharp edges
- Extra range - best-in-class
- qTeach - tamper-proof, simple teach-in with ferromagnetic tool
- Robust housing with stainless steel spacer sleeves

Picture similar

Technical data

General data	
Type	Background suppression
Sensing distance Tw	20 … 175 mm
Sensing range Tb	3 … 192 mm
Smallest object recognizable typ.	1 mm at 100 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
Beam type	Point
Alignment optical axis	< 1,5°
Light Source	
Light source	Pulsed PinPoint LED
Wave length	644 nm
Electrical data	
Response time / release time	≤ 0.5 ms
Jitter	≤ 0.12 ms
Voltage supply range +Vs	10 … 30 VDC

Electrical data	
Current consumption max. (no load)	40 mA (@ 10 VDC)
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
Design	Rectangular
Mechanical mounting	Sleeve smooth (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

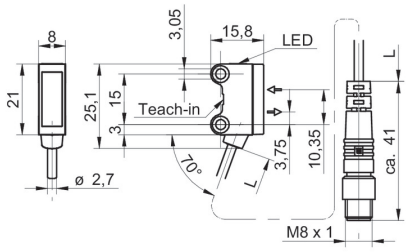
2024-02-15 The product features and technical data specified do not express or imply any warranty. Technical modifications subject to change.

O200.GP-NV1T.72NV/B005

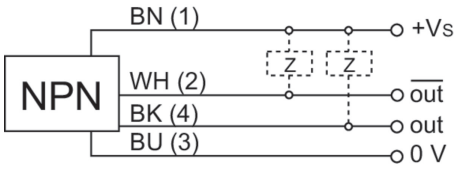
Diffuse sensors with background suppression - miniature

Article number: 11231204

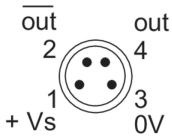
Dimension drawing



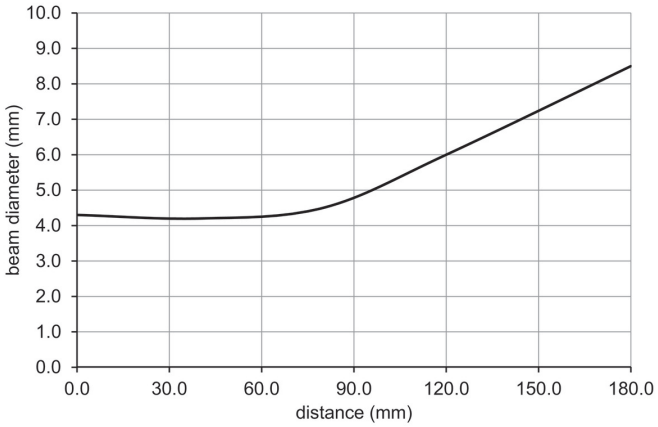
Connection diagram



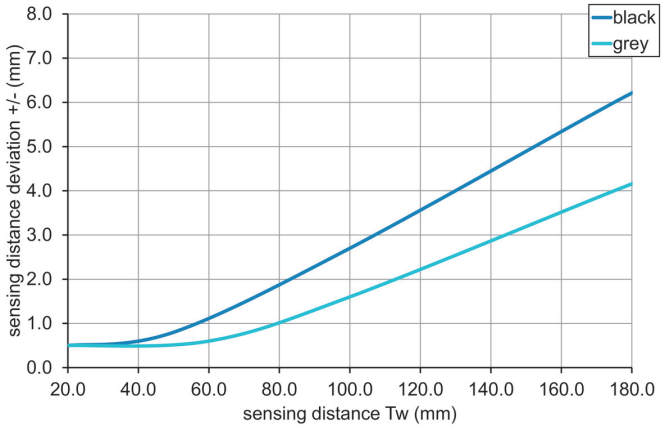
Pin assignment



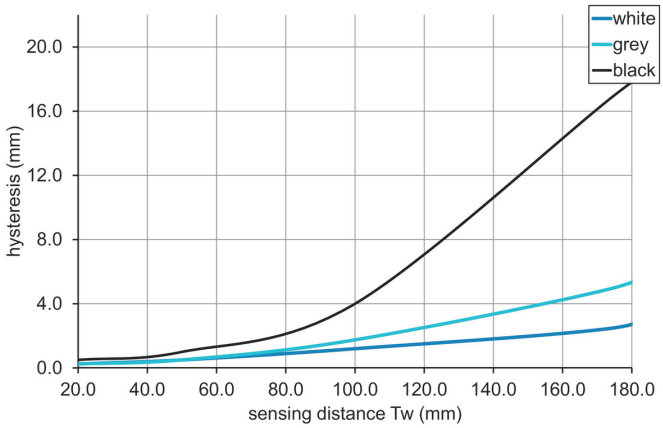
Beam characteristic (typically)



Sensing distance diagram



Hysteresis curve



The product features and technical data specified do not express or imply any warranty. Technical modifications subject to change.
2024-02-15