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
Light source	Pulsed PinPoint LED
Sensing distance Tw	20 … 175 mm
Sensing range Tb	3 … 192 mm
Smallest object recognizable typ.	1 mm at 100 mm
Alignment / soiled lens indicator	Flashing output indicator
Power on indication	LED green
Output indicator	LED yellow
Sensing distance adjustment	qTeach
Wave length	644 nm
Suppression of reciprocal influence	Yes
Beam type	Point
Alignment optical axis	< 1,5°

Electrical data

Response time / release time	≤ 0,5 ms
Jitter	≤ 0,12 ms
Voltage supply range +Vs	10 … 30 VDC

Electrical data

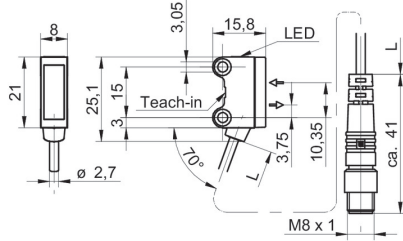|	
Current consumption max. (no load)	40 mA (@ 10 VDC)
Current consumption typ.	16 mA (@ 24 VDC)
Voltage drop Vd	< 2 VDC
Output function	Light / dark operate
Output circuit	NPN complementary
Output current	< 50 mA
Short circuit protection	Yes
Reverse polarity protection	Yes

Mechanical data

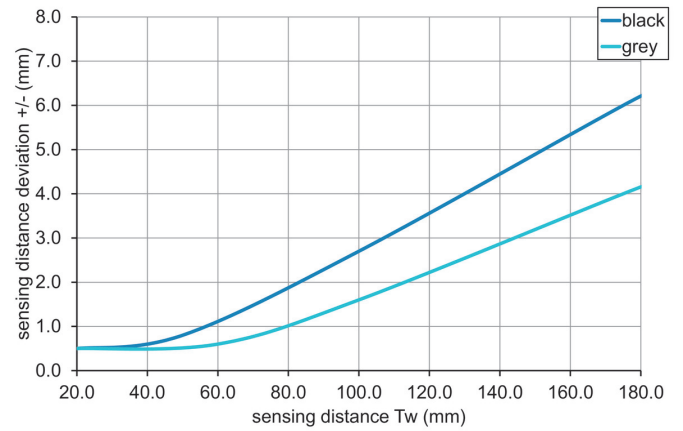|	
Width / diameter	8 mm
Height / length	25,1 mm
Depth	15,8 mm
Type	Rectangular
Mechanical mounting	Sleeve smooth (stainless steel)
Housing material	Plastic (ASA, PMMA)
Front (optics)	PMMA
Connection types	Flylead connector M8 4 pin, L=200 mm
Cable characteristics	PVC / PVC 4 x 0,08 mm²

Ambient conditions

Protection class	IP 67
Operating temperature	-25 … +50 °C

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Dimension drawing

Connection diagram

Pin assignment

Sensing distance diagram
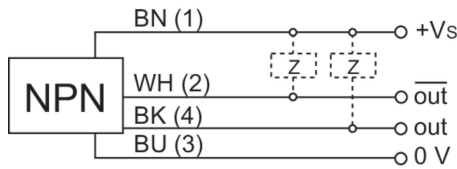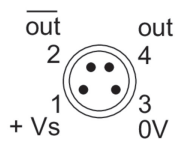
Hysteresis curve
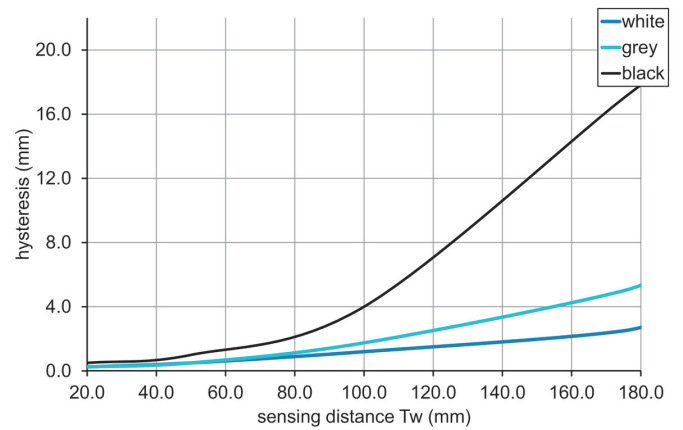
Beam characteristic (typically)