

O200.GP-NV1T.72NV

Diffuse sensors with background suppression - miniature

Article number: 11212614

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
- Robust housing with stainless steel spacer sleeves



Picture similar



Technical data

General data

| | |
|-------------------------------------|---------------------------|
| Type | Background suppression |
| Sensing distance Tw | 20 ... 120 mm |
| Sensing range Tb | 3 ... 132 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 PinPoint 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 | NPN complementary |
| Output current | 50 mA |
| Short circuit protection | Yes |
| Reverse polarity protection | Yes |

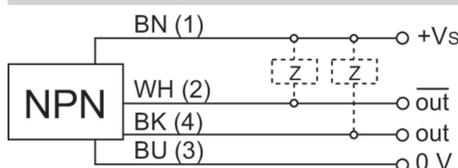
Mechanical data

| | |
|-----------------------|--------------------------------------|
| 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 mm ² |

Ambient conditions

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

Connection diagram

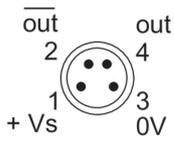


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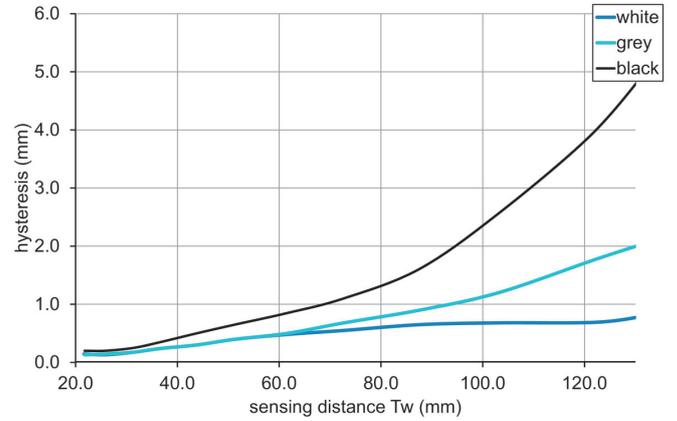
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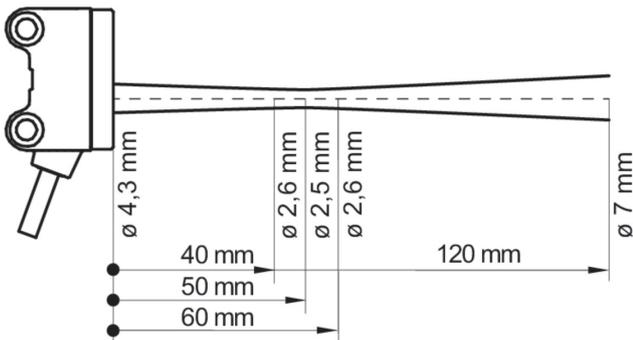
Pin assignment



Hysteresis curve



Beam characteristic (typically)



Sensing distance diagram

