

O200.GR-PV1Z.72NV/H006_BX30

Diffuse sensors with background suppression - miniature

Article number: 11212629

Overview

- Outstanding reliability and unrivalled immunity against ambient light
- Reproducible and color-independent switching distances
- Fixed preset for the simplest commissioning
- Quick mounting by means of M3 threaded bushes made of stainless steel



Picture similar



Technical data

General data

| | |
|-------------------------------------|---------------------------|
| Type | Background suppression |
| Sensing distance T_w | 30 mm |
| Sensing range T_b | 7 ... 30 mm |
| Smallest object recognizable typ. | 0.25 mm at 30 mm |
| Power on indication | LED green |
| Alignment / soiled lens indicator | Flashing output indicator |
| Output indicator | LED yellow |
| Sensing distance adjustment | No |
| 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 | < 1 ms |
| Voltage supply range +Vs | 10 ... 30 VDC |
| Current consumption max. (no load) | 20 mA (@ 30 VDC) |

Electrical data

| | |
|-----------------------------|----------------------|
| Current consumption typ. | 16 mA (@ 24 VDC) |
| Voltage drop V_d | <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 mm ² |

Ambient conditions

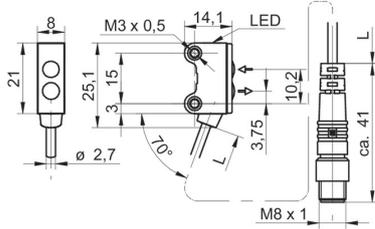
| | |
|-----------------------|----------------|
| Protection class | IP 67 |
| Operating temperature | -25 ... +50 °C |

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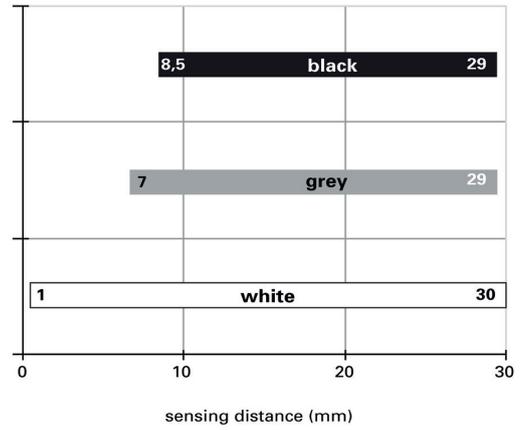
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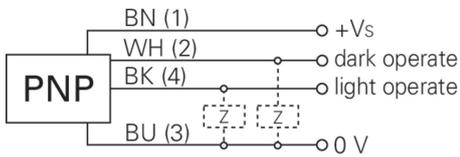
Dimension drawing



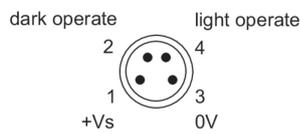
Sensing distance diagram



Connection diagram



Pin assignment



Beam characteristic (typically)

