

## O200.GR-NV1Z.72NV/BX50

Diffuse sensors with background suppression - miniature

Article number: 11212586

### Overview

- Outstanding reliability and unrivalled immunity against ambient light
- Reproducible and color-independent switching distances
- Fixed preset for the simplest commissioning
- Robust housing with stainless steel spacer sleeves



Picture similar



### Technical data

#### General data

|                                     |                           |
|-------------------------------------|---------------------------|
| Type                                | Background suppression    |
| Sensing distance $T_w$              | 50 mm                     |
| Sensing range $T_b$                 | 7 ... 50 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              | 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                 | 14.1 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 <sup>2</sup>   |

#### Ambient conditions

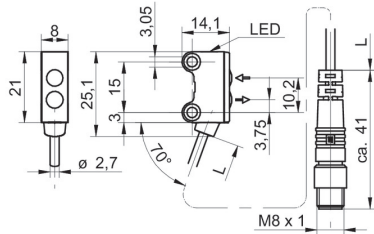
|                       |                |
|-----------------------|----------------|
| Protection class      | IP 67          |
| Operating temperature | -25 ... +50 °C |

# O200.GR-NV1Z.72NV/BX50

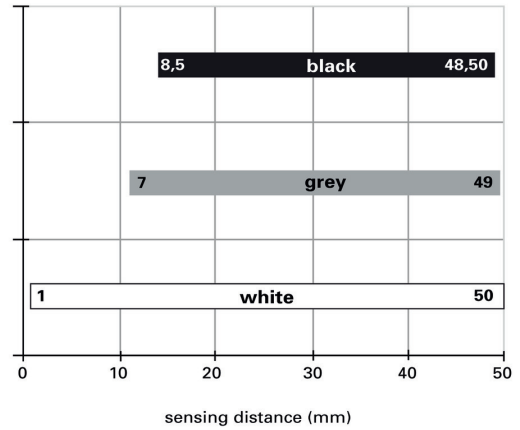
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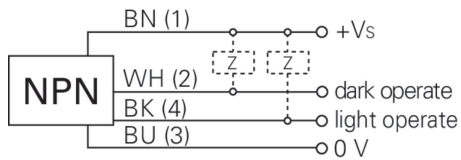
## Dimension drawing



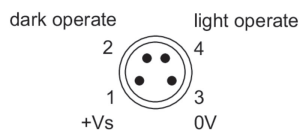
## Sensing distance diagram



## Connection diagram



## Pin assignment



## Beam characteristic (typically)

