

## O200.GR.F-NV1Z.72CV/BX15

Diffuse sensors with background suppression - miniature

Article number: 11210528

### Overview

- Outstanding reliability and unrivalled immunity against ambient light
- V-optics for detection of shiny or transparent objects
- 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    |
| Version                             | Fixed focus               |
| Sensing distance Tw                 | 15 mm                     |
| Sensing range Tb                    | 3 ... 15 mm               |
| Smallest object recognizable typ.   | 0.05 mm at 10 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 |

#### Electrical data

|                                    |                      |
|------------------------------------|----------------------|
| Current consumption max. (no load) | 20 mA (@ 30 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                  |

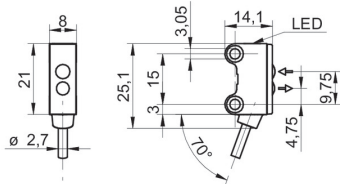
#### Mechanical data

|                       |                                    |
|-----------------------|------------------------------------|
| Width / diameter      | 8 mm                               |
| Height / length       | 25.1 mm                            |
| Depth                 | 14.1 mm                            |
| Design                | Rectangular                        |
| Mechanical mounting   | Sleeve smooth (stainless steel)    |
| Housing material      | Plastic (ASA, PMMA)                |
| Front (optics)        | PMMA                               |
| Connection types      | Cable 4 pin, 2 m                   |
| Cable characteristics | PVC / PVC 4 x 0.08 mm <sup>2</sup> |

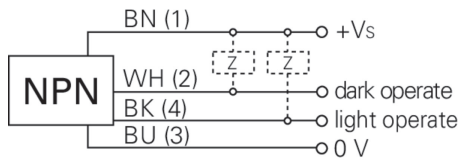
#### Ambient conditions

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

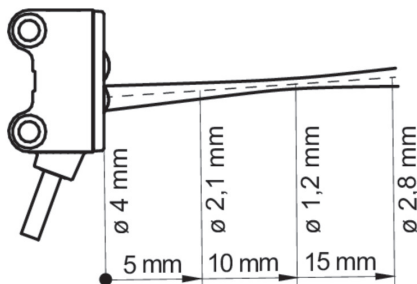
## Dimension drawing



## Connection diagram



## Beam characteristic (typically)



## Sensing distance diagram

