

## Overview

- Most secure object detection due to the barrier principle
- Fixed preset for the simplest commissioning
- Robust housing with brass spacer sleeves



Picture similar



## Technical data

### General data

|                                     |                           |
|-------------------------------------|---------------------------|
| Type                                | Through beam sensor       |
| Emitter / receiver                  | Receiver                  |
| Actual range Sb                     | 10 m                      |
| Nominal range Sn                    | 12 m                      |
| Alignment / soiled lens indicator   | Flashing output indicator |
| Output indicator                    | LED yellow                |
| Power on indication                 | LED green                 |
| Sensitivity adjustment              | No                        |
| Suppression of reciprocal influence | Yes                       |

### Electrical data

|                                    |               |
|------------------------------------|---------------|
| Response time / release time       | < 0.8 ms      |
| Voltage supply range +Vs           | 10 ... 30 VDC |
| Current consumption max. (no load) | 50 mA         |
| Current consumption typ.           | 25 mA         |
| Voltage drop Vd                    | < 2 VDC       |

### Electrical data

|                             |                      |
|-----------------------------|----------------------|
| Output function             | Light / dark operate |
| Output circuit              | NPN complementary    |
| Output current              | < 100 mA             |
| Short circuit protection    | Yes                  |
| Reverse polarity protection | Yes                  |

### Mechanical data

|                     |                          |
|---------------------|--------------------------|
| Width / diameter    | 11 mm                    |
| Height / length     | 32 mm                    |
| Depth               | 21 mm                    |
| Type                | Rectangular              |
| Mechanical mounting | Sleeve smooth (brass)    |
| Housing material    | Plastic (ABS, ASA, PMMA) |
| Front (optics)      | PMMA                     |
| Connection types    | Connector M8 4 pin       |

### Ambient conditions

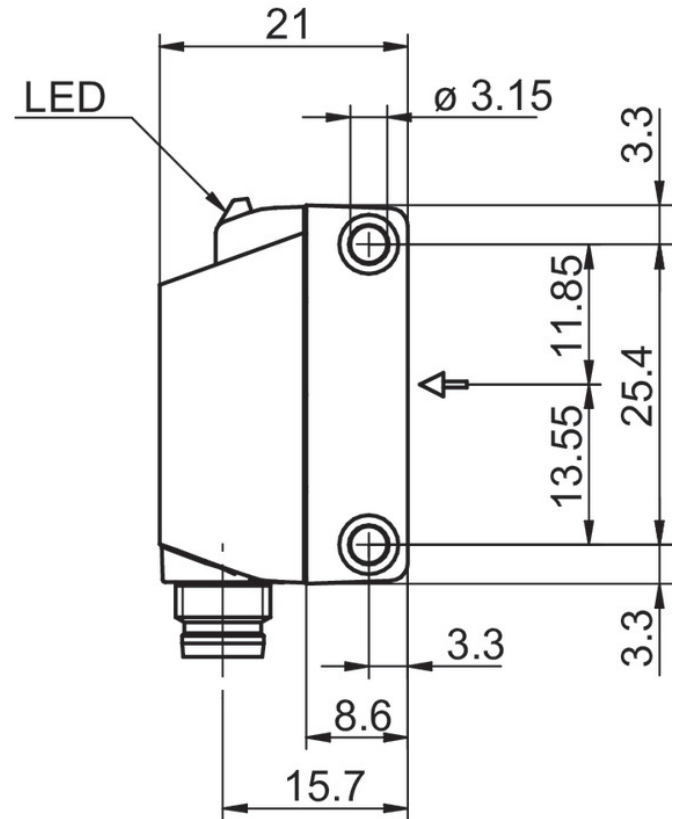
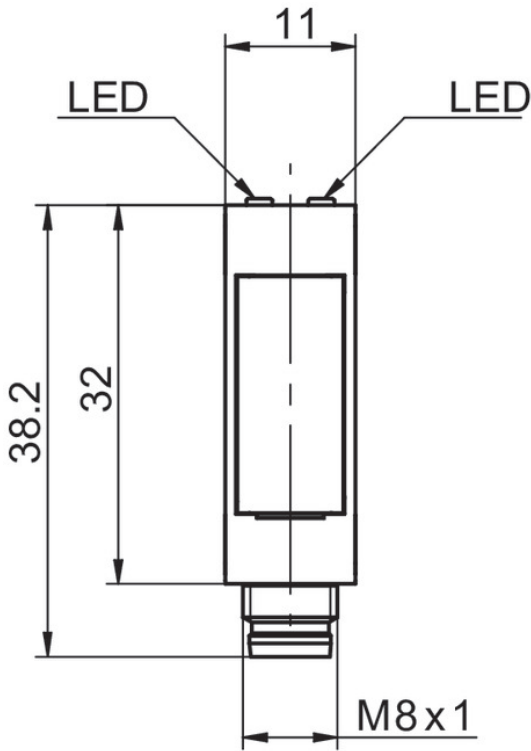
|                       |                |
|-----------------------|----------------|
| Operating temperature | -25 ... +55 °C |
| Protection class      | IP 67          |
| Storage temperature   | -40 ... +70 °C |

## O330.EP-NDNVZ.72N

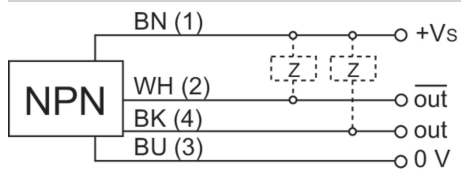
Through beam sensors - miniature

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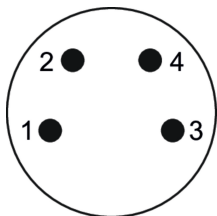
### Technical drawings



### Connection diagram



### Pin assignment



### Excess gain curve

