

## O200.GP-PV1T.72NV/H006\_T003

Diffuse sensors with background suppression - miniature

Article number: 11212668

### 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
- Intuitive Xpress Teach / 1-Step Teach method
- Quick mounting by means of M3 threaded bushes made of stainless steel



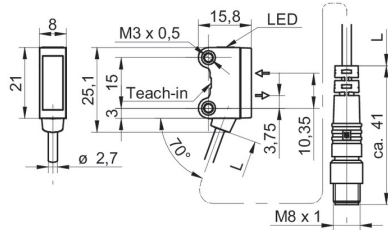
Picture similar



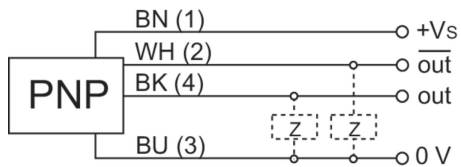
### Technical data

| General data                        |                           | Electrical data             |                                       |
|-------------------------------------|---------------------------|-----------------------------|---------------------------------------|
| Type                                | Background suppression    | Current consumption typ.    | 16 mA (@ 24 VDC)                      |
| Sensing distance Tw                 | 20 ... 120 mm             | Voltage drop Vd             | <2 VDC                                |
| Sensing range Tb                    | 3 ... 132 mm              | Output function             | Light / dark operate                  |
| Smallest object recognizable typ.   | 0.25 mm at 40 mm          | Output circuit              | PNP complementary                     |
| Power on indication                 | LED green                 | Output current              | 50 mA                                 |
| Alignment / soiled lens indicator   | Flashing output indicator | Short circuit protection    | Yes                                   |
| Output indicator                    | LED yellow                | Reverse polarity protection | Yes                                   |
| Sensing distance adjustment         | qTeach / 1-Step Teach-in  | Mechanical data             |                                       |
| Suppression of reciprocal influence | Yes                       | Width / diameter            | 8 mm                                  |
| Alignment optical axis              | < 1,5°                    | Height / length             | 25.1 mm                               |
| Light Source                        |                           | Depth                       | 15.8 mm                               |
| Light source                        | Pulsed PinPoint LED       | Design                      | Rectangular                           |
| Wave length                         | 644 nm                    | Mechanical mounting         | Threaded sleeves M3 (stainless steel) |
| Electrical data                     |                           | Housing material            | Plastic (ASA, PMMA)                   |
| Response time / release time        | < 0.5 ms                  | Front (optics)              | PMMA                                  |
| Voltage supply range +Vs            | 10 ... 30 VDC             | Connection types            | Flylead connector M8 4 pin, L=200 mm  |
| Current consumption max. (no load)  | 40 mA (@ 10 VDC)          | Cable characteristics       | PVC / PVC 4 x 0.08 mm <sup>2</sup>    |
|                                     |                           | Ambient conditions          |                                       |
|                                     |                           | Protection class            | IP 67                                 |
|                                     |                           | Operating temperature       | -25 ... +50 °C                        |

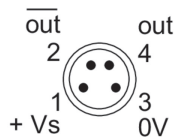
## Dimension drawing



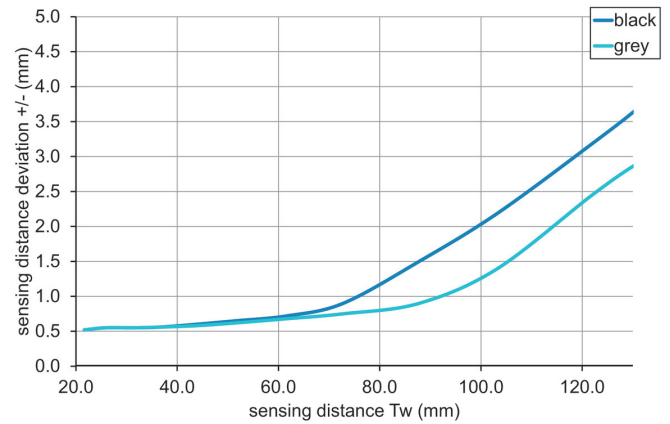
### Connection diagram



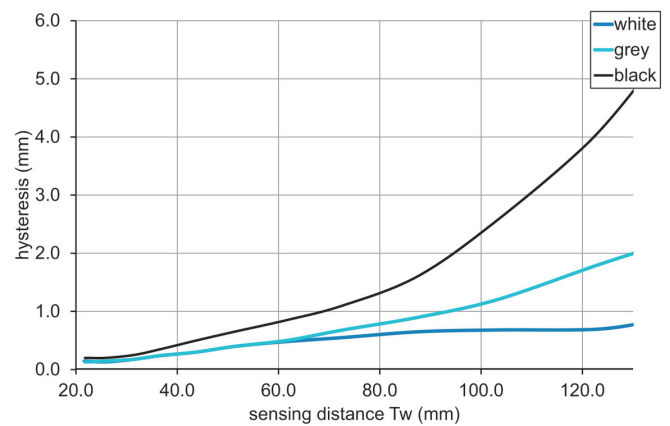
## Pin assignment



### Sensing distance diagram



## Hysteresis curve



### Beam characteristic (typically)

