

overview

- Outstanding reliability and unrivalled immunity against ambient light
- Baumer PinPoint LED: Small, homogeneous light spot with sharp edges
- Extra range - best-in-class
- qTeach - tamper-proof, simple teach-in with ferromagnetic tool
- Robust housing with stainless steel spacer sleeves



Technical data

general data

|                                     |                           |
|-------------------------------------|---------------------------|
| type                                | background suppression    |
| light source                        | pulsed PinPoint LED       |
| sensing distance Tw                 | 20 ... 175 mm             |
| sensing range Tb                    | 3 ... 192 mm              |
| smallest object recognizable typ.   | 1 mm at 100 mm            |
| alignment / soiled lens indicator   | flashing output indicator |
| power on indication                 | LED green                 |
| output indicator                    | LED yellow                |
| sensing distance adjustment         | qTeach                    |
| wave length                         | 644 nm                    |
| suppression of reciprocal influence | yes                       |
| beam type                           | point                     |
| alignment optical axis              | < 1,5°                    |

electrical data

|                              |               |
|------------------------------|---------------|
| response time / release time | ≤ 0,5 ms      |
| jitter                       | ≤ 0,12 ms     |
| voltage supply range +Vs     | 10 ... 30 VDC |

electrical data

|                                    |                      |
|------------------------------------|----------------------|
| current consumption max. (no load) | 40 mA (@ 10 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                 | 15,8 mm                            |
| type                  | 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

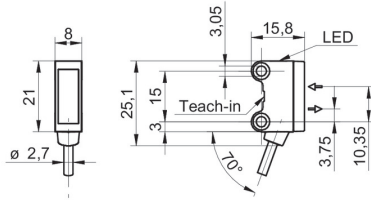
|                       |                |
|-----------------------|----------------|
| operating temperature | -25 ... +50 °C |
| protection class      | IP 67          |

## O200.GP-NV1T.72CV/B005

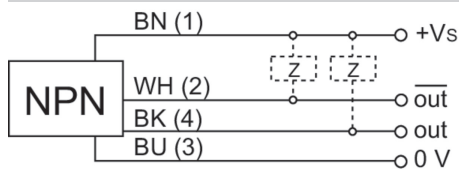
Diffuse sensors with background suppression - miniature

Article number: 11231203

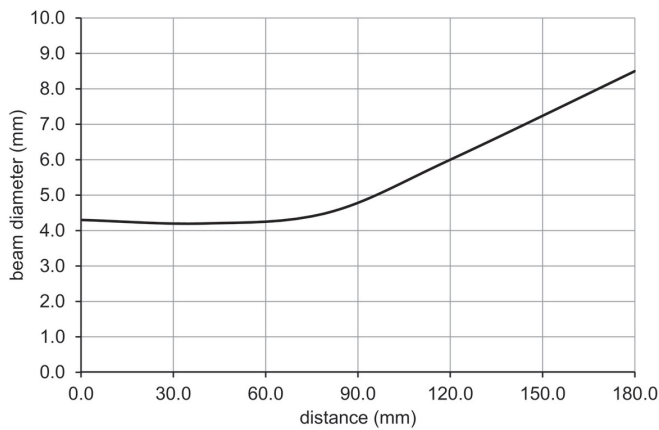
### dimension drawing



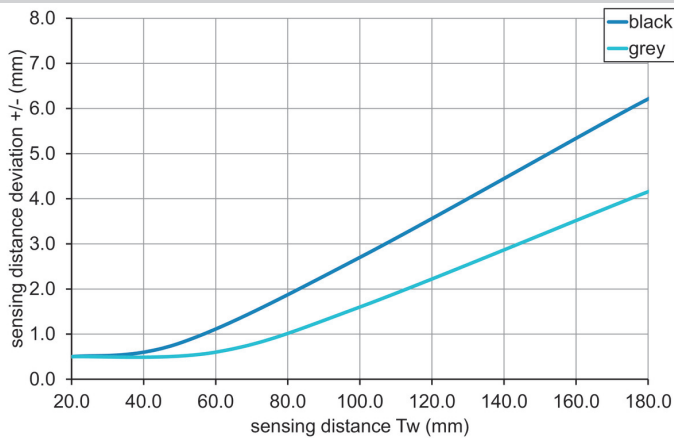
### connection diagram



### beam characteristic (typically)



### sensing distance diagram



### hysteresis curve

