

Overview

- Outstanding reliability and unrivalled immunity against ambient light
- Line beam for complete detection of irregular, perforated objects
- Precise detection thanks to laser light source
- qTeach - tamper-proof, simple teach-in with ferromagnetic tool
- Quick mounting by means of M3 threaded bushes made of stainless steel



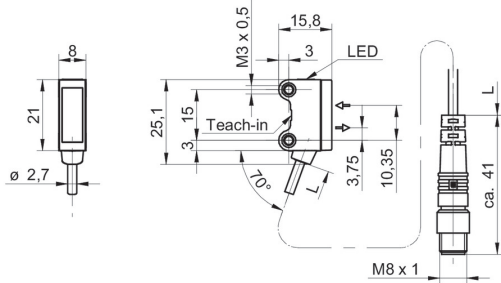
Picture similar



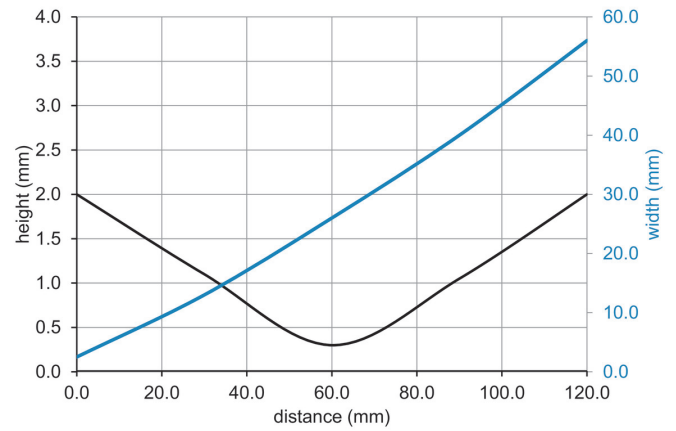
Technical data

| General data | | Electrical data | |
|-------------------------------------|---------------------------|------------------------------------|---------------------------------------|
| Type | Background suppression | Voltage supply range +Vs | 10 ... 30 VDC |
| Version | Line beam | Current consumption max. (no load) | 20 mA (@ 10 VDC) |
| Light source | Pulsed red laser diode | Current consumption typ. | 10 mA (@ 24 VDC) |
| Sensing distance Tw | 20 ... 120 mm | Voltage drop Vd | < 2 VDC |
| Sensing range Tb | 3 ... 122 mm | Output function | Light / dark operate |
| Smallest object recognizable typ. | 8 mm at 60 mm | Output circuit | PNP complementary |
| Alignment / soiled lens indicator | Flashing output indicator | Output current | < 50 mA |
| Power on indication | LED green | Short circuit protection | Yes |
| Output indicator | LED yellow | Reverse polarity protection | Yes |
| Sensing distance adjustment | qTeach | Mechanical data | |
| Laser class | 1 | Width / diameter | 8 mm |
| Distance to focus | 60 mm | Height / length | 25,1 mm |
| Wave length | 680 nm | Depth | 15,8 mm |
| Suppression of reciprocal influence | Yes | Type | Rectangular |
| Beam type | Line | Mechanical mounting | Threaded sleeves M3 (stainless steel) |
| Alignment optical axis | < 1,5° | Housing material | Plastic (ASA, PMMA) |
| Electrical data | | Front (optics) | PMMA |
| Response time / release time | ≤ 2 ms | Connection types | Flylead connector M8 4 pin, L=200 mm |
| Jitter | ≤ 2 ms | Cable characteristics | PVC / PVC 4 x 0,08 mm ² |
| | | Ambient conditions | |
| | | Protection class | IP 67 |
| | | Operating temperature | -20 ... +50 °C |

Dimension drawing



Beam characteristic (typically)

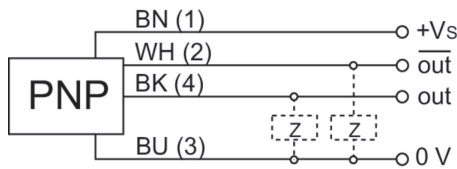


Laser warning

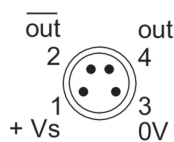
CLASS 1 LASER PRODUCT

IEC 60825-1/2014
Complies with 21 CFR 1040.10 and 1040.11 except for conformance with IEC 60825-1 Ed. 3., as described in Laser Notice No. 56, dated May 8, 2019

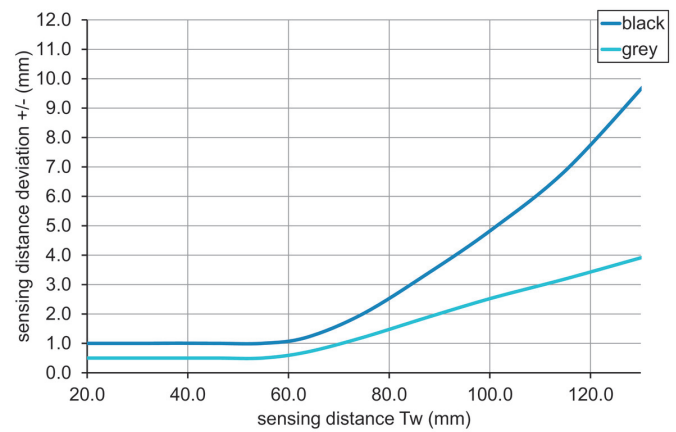
Connection diagram



Pin assignment



Sensing distance diagram



Hysteresis curve

