

## Overview

- 50 ... 250 mm
- pulsed red laser diode
- analog
- no
- connector M12 5 pin, rotatable
- 50 °C
- IP 67



Picture similar

## Technical data

### General data

|                       |                  |
|-----------------------|------------------|
| Measuring distance Sd | 50 ... 250 mm    |
| Adjustment            | No               |
| Power on indication   | LED green        |
| Soiled lens indicator | LED red          |
| Resolution            | 100 ... 300 µm   |
| Linearity error       | ± 0,3 ... 0,8 mm |
| Beam type             | Line             |
| Beam width            | 2,5 mm           |
| Beam height           | 4 ... 10 mm      |
| Temperature drift     | < 0,03 % Sde/K   |

### Light Source

|              |                        |
|--------------|------------------------|
| Light source | Pulsed red laser diode |
| Wave length  | 650 nm                 |

### Electrical data

|                                    |               |
|------------------------------------|---------------|
| Response time / release time       | < 10 ms       |
| Voltage supply range +Vs           | 12 ... 28 VDC |
| Current consumption max. (no load) | 100 mA        |

### Electrical data

|                             |                |
|-----------------------------|----------------|
| Output circuit              | Analog         |
| Output signal               | 0 ... 10 VDC   |
| Load resistance (analog U)  | > 100 kOhm     |
| Output current              | < 100 mA       |
| Alarm output                | PNP            |
| Short circuit protection    | Yes            |
| Reverse polarity protection | Yes, Vs to GND |

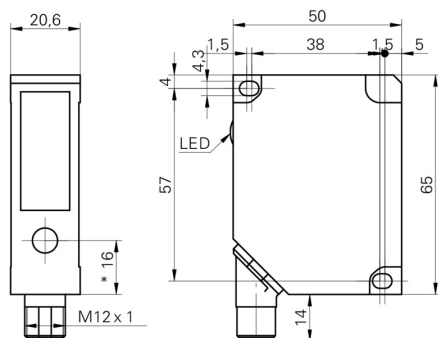
### Mechanical data

|                  |                                |
|------------------|--------------------------------|
| Width / diameter | 20,6 mm                        |
| Height / length  | 65 mm                          |
| Depth            | 50 mm                          |
| Type             | Rectangular                    |
| Housing material | Die-cast zinc                  |
| Front (optics)   | Glass                          |
| Connection types | Connector M12 5 pin, rotatable |

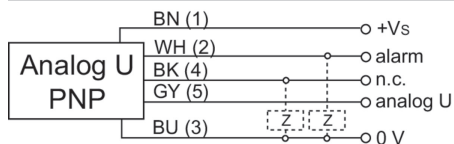
### Ambient conditions

|                       |              |
|-----------------------|--------------|
| Operating temperature | 0 ... +50 °C |
| Protection class      | IP 67        |

## Dimension drawing



## Connection diagram



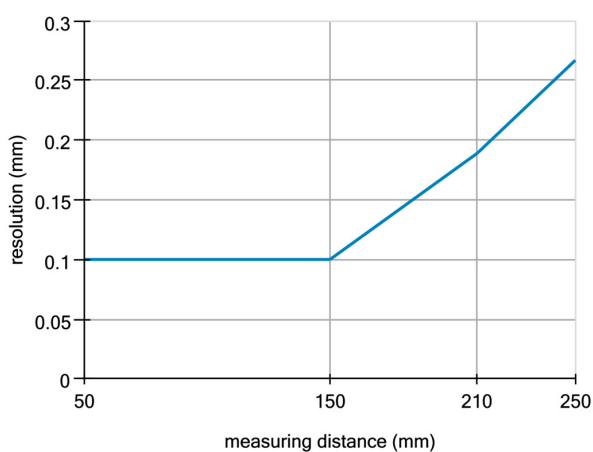
## Laser warning



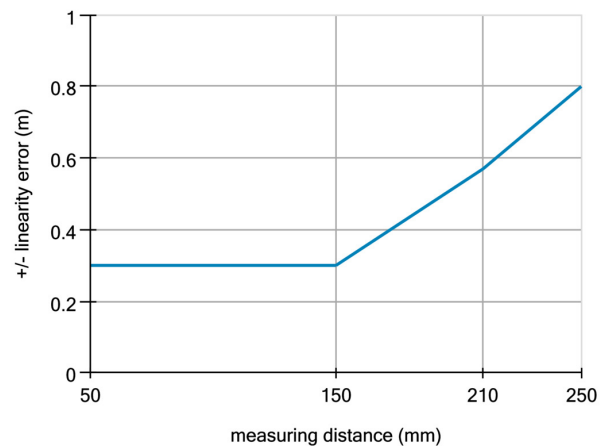
**LASER RADIATION**  
**DO NOT STARE INTO BEAM**  
Wavelength: 640...670nm  
IEC 60825-1, Ed. 3, 2014  
**CLASS 2 LASER PRODUCT**

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

## Resolution



## Linearity error



## Alignment of the laserline

