

## Overview

- 30 ... 130 mm
- pulsed red laser diode
- analog
- Teach-in: button / external
- connector M12 5 pin, rotatable
- 50 °C
- IP 67



Picture similar



## Technical data

### General data

|                       |                             |
|-----------------------|-----------------------------|
| Measuring distance Sd | 30 ... 130 mm               |
| Beam diameter         | 2 ... 1 mm                  |
| Adjustment            | Teach-in: button / external |
| Teach-in range min.   | > 3 mm                      |
| Power on indication   | LED green                   |
| Soiled lens indicator | LED red                     |
| Resolution            | 5 ... 60 µm                 |
| Linearity error       | ± 0.015 ... 0.2 mm          |
| Beam type             | Point                       |

### Light Source

|              |                        |
|--------------|------------------------|
| Light source | Pulsed red laser diode |
| Wave length  | 650 nm                 |
| Laser class  | 2                      |

### Electrical data

|                              |               |
|------------------------------|---------------|
| Response time / release time | < 0.9 ms      |
| Voltage supply range +Vs     | 12 ... 28 VDC |

### Electrical data

|                                    |                |
|------------------------------------|----------------|
| Current consumption max. (no load) | 100 mA         |
| Output circuit                     | Analog         |
| Output signal                      | 0 ... 10 VDC   |
| Load resistance (analog U)         | > 100 kOhm     |
| Short circuit protection           | Yes            |
| Reverse polarity protection        | Yes, Vs to GND |

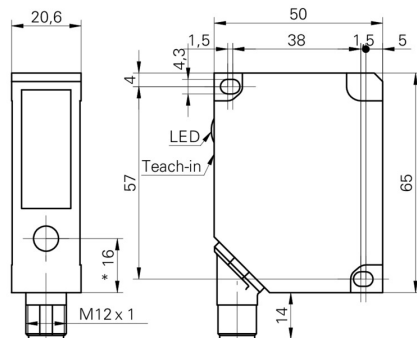
### Mechanical data

|                  |                                |
|------------------|--------------------------------|
| 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

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

## Dimension drawing



- \* emitter axis

## Laser warning



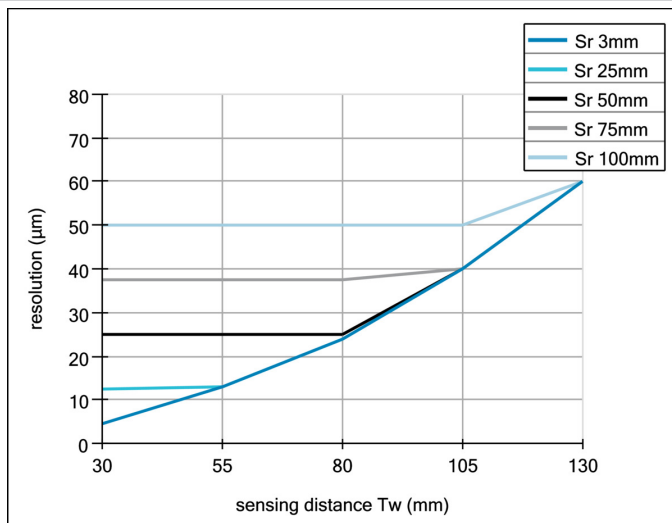
**LASER RADIATION**  
**DO NOT STARE INTO BEAM**  
Wavelength: 640...670nm  
IEC 60825-1, Ed. 3, 2014  
**CLASS 2 LASER PRODUCT**

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

## Connection diagram



## Resolution



## Linearity error

