

## Overview

- 50 ... 300 mm
- pulsed red laser diode
- analog
- external
- connector M12 8 pin
- 50 °C
- IP 69K & proTect+



Picture similar



## Technical data

### General data

|                        |                 |
|------------------------|-----------------|
| Measuring distance Sd  | 50 ... 300 mm   |
| Special type           | Washdown design |
| Beam diameter          | 2 mm            |
| Adjustment             | External        |
| Teach-in range min.    | > 5 mm          |
| Power on indication    | LED green       |
| Soiled lens indicator  | LED red         |
| Resolution             | 10 ... 330 µm   |
| Linearity error        | ± 0.03 ... 1 mm |
| Beam type              | Point           |
| Temperature drift      | < 0.03 % Sde/K  |
| Approvals/certificates | Ecolab          |

### 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 |
| Current consumption max. (no load) | 100 mA        |

### Electrical data

|                             |                            |
|-----------------------------|----------------------------|
| Output circuit              | Analog                     |
| Output signal               | 4 ... 20 mA / 0 ... 10 VDC |
| Load resistance (analog I)  | < (+Vs - 6 V) / 0,02 A     |
| 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 | 20.3 mm                      |
| Height / length  | 65 mm                        |
| Depth            | 51 mm                        |
| Type             | Rectangular                  |
| Housing material | Stainless steel 1.4404 (V4A) |
| Front (optics)   | PMMA                         |
| Connection types | Connector M12 8 pin          |

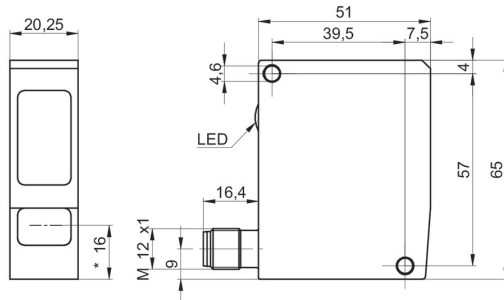
### Ambient conditions

|                        |                   |
|------------------------|-------------------|
| Ambient light immunity | < 8 kLux          |
| Protection class       | IP 69K & proTect+ |
| Operating temperature  | 0 ... +50 °C      |

## Remarks

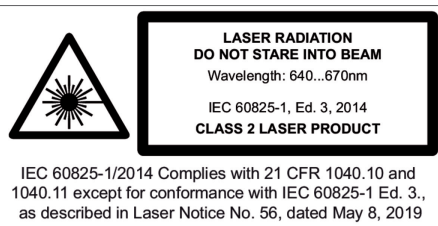
- Sensor FDA compliant and Ecolab approved
- Sensitivity adjustable: via Teach-in wire input

## Dimension drawing

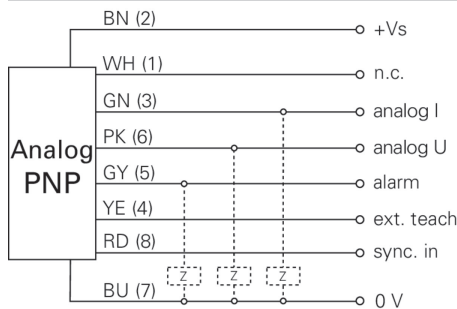


- \* emitter axis

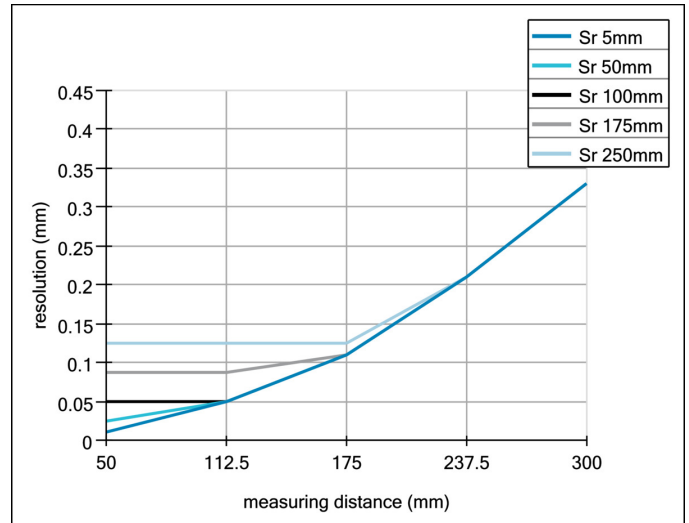
## Laser warning



## Connection diagram



## Resolution



## Linearity error

