

## OADM 13U7480/S35A

Distance sensors - miniature

Article number: 11017095

### Overview

- 50 ... 550 mm
- pulsed red laser diode
- analog
- Teach-in: button / external
- connector M8 4 pin
- 50 °C
- IP 67



Picture similar



### Technical data

#### General data

|                          |                             |
|--------------------------|-----------------------------|
| Measuring distance Sd    | 50 ... 550 mm               |
| Beam diameter            | 1 mm                        |
| Adjustment               | Teach-in: button / external |
| Teach-in range min.      | > 10 mm                     |
| Power on indication      | LED green                   |
| Soiled lens indicator    | LED red                     |
| Resolution               | 10 ... 1150 µm              |
| Linearity error          | ± 0.08 ... 3.5 mm           |
| Beam type                | Point                       |
| Interference suppression | < 30 ms                     |
| Temperature drift        | < 0,07 % Sde/K              |

#### Light Source

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

#### Electrical data

|                              |               |
|------------------------------|---------------|
| Response time / release time | < 2 ms        |
| Voltage supply range +Vs     | 12 ... 28 VDC |

#### Electrical data

|                                    |                |
|------------------------------------|----------------|
| Current consumption max. (no load) | 80 mA          |
| Output circuit                     | Analog         |
| Output signal                      | 0 ... 10 VDC   |
| Load resistance                    | > 100 kOhm     |
| Short circuit protection           | Yes            |
| Reverse polarity protection        | Yes, Vs to GND |

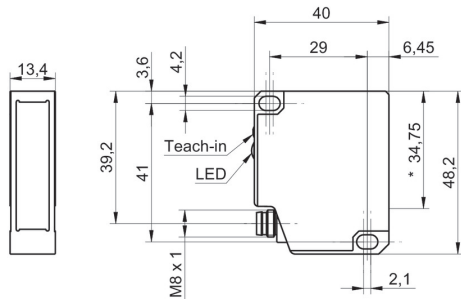
#### Mechanical data

|                  |                    |
|------------------|--------------------|
| Width / diameter | 13.4 mm            |
| Height / length  | 48.2 mm            |
| Depth            | 40 mm              |
| Type             | Rectangular        |
| Housing material | Aluminum           |
| Front (optics)   | Glass              |
| Connection types | Connector M8 4 pin |

#### Ambient conditions

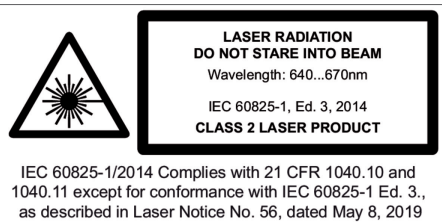
|                        |              |
|------------------------|--------------|
| Ambient light immunity | < 40 kLux    |
| Protection class       | IP 67        |
| Operating temperature  | 0 ... +50 °C |

## Dimension drawing



- \* emitter axis

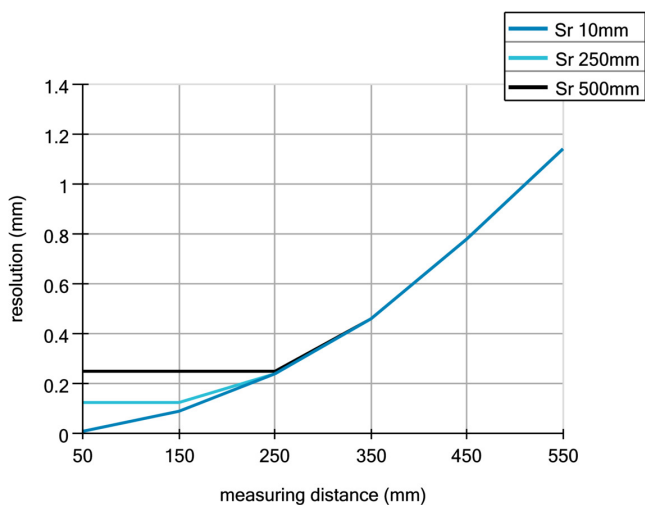
## Laser warning



## Connection diagram



## Resolution



## Linearity error

