# OADM 20I6541/S14F

Distance sensors

Article number: 10144603

## Overview

- 30 … 70 mm
- pulsed red laser diode
- analog
- Teach-in: button / external
- connector M12 8 pin, rotatable
- 50 °C
- IP 67


*Picture similar*

## Technical data

| General data | |
|---|---|
| Measuring distance Sd | 30 … 70 mm |
| Adjustment | Teach-in: button / external |
| Teach-in range min. | > 2 mm |
| Power on indication | LED green |
| Soiled lens indicator | LED red |
| Resolution | 4 … 20 µm |
| Linearity error | ± 0,012 … 0,06 mm |
| Beam type | Line |
| Beam width | 1 … 0,2 mm |
| Beam height | 2 mm |
| Temperature drift | < 0,015 % Sde/K |
| **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 | 20,6 mm |
| Height / length | 65 mm |
| Depth | 50 mm |
| Type | Rectangular |
| Housing material | Die-cast zinc |
| Front (optics) | Glass |
| Connection types | Connector M12 8 pin, rotatable |
| **Ambient conditions** | |
| Ambient light immunity | < 50 kLux |
| Operating temperature | 0 … +50 °C |
| Protection class | IP 67 |

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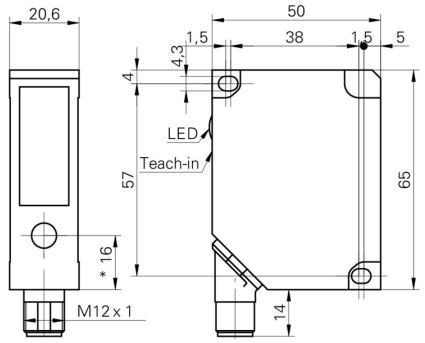
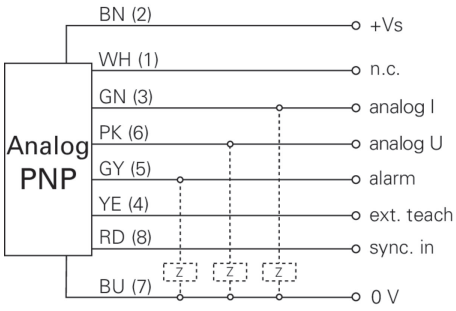
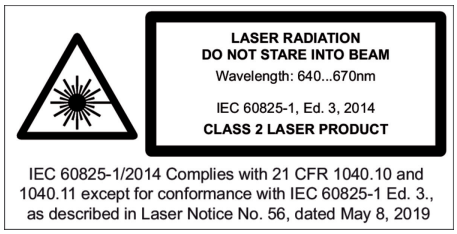
## Dimension drawing



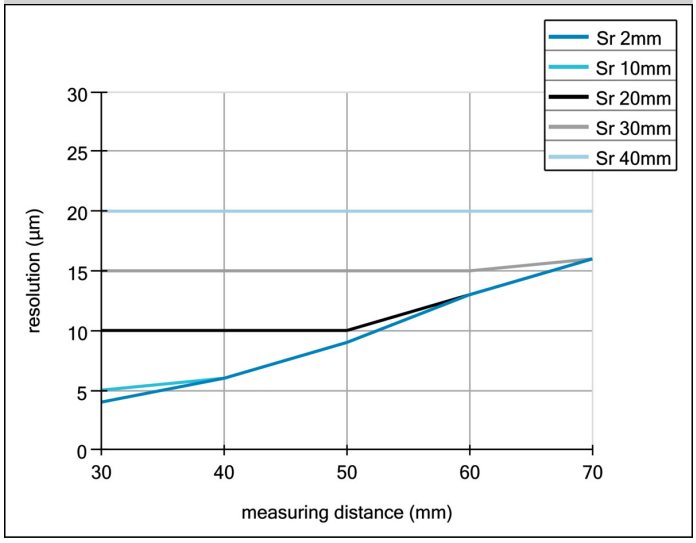

## Connection diagram



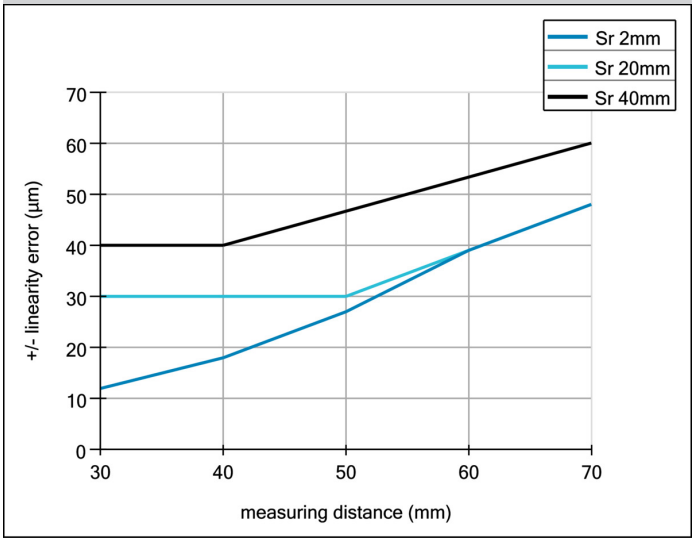

## Laser warning



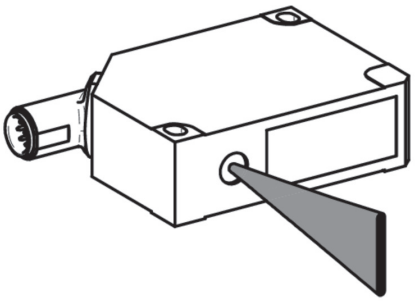

## Resolution




## Linearity error




## Beam characteristic (typically)



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## Alignment of the laserline

2020-12-17 EN/20170206 Design and specifications subject to change without notice