

# OADM 260I1101/S14C

Distance sensors

Article number: 11044710

## overview

- 200 ... 13000 mm
- pulsed red laser diode
- analog
- Teach-in: button / external
- connector M12 5 pin, rotatable
- 25 ... 50 °C
- IP 67



## Technical data

### general data

|                                   |                                      |
|-----------------------------------|--------------------------------------|
| measuring distance Sd             | 200 ... 13000 mm                     |
| measuring distance Sd (white 90%) | 200 ... 13000 mm                     |
| measuring distance Sd (grey 18%)  | 200 ... 9000 mm                      |
| measuring distance Sd (black 6%)  | 200 ... 4000 mm                      |
| adjustment                        | Teach-in: button / external          |
| Teach-in range min.               | > 100 mm                             |
| power on indication               | LED green                            |
| soiled lens indicator             | LED red                              |
| resolution                        | 5000 µm                              |
| repeatability                     | ± 15 mm (with 40 kLux ambient light) |
| linearity                         | ± 15 mm                              |
| light source                      | pulsed red laser diode               |
| wave length                       | 660 nm                               |
| laser class                       | 2                                    |
| beam type                         | point                                |
| beam diameter                     | 5 ... 50 mm                          |

### electrical data

|                          |               |
|--------------------------|---------------|
| measuring rate           | 10 ms         |
| voltage supply range +Vs | 15 ... 28 VDC |

### electrical data

|                                    |                            |
|------------------------------------|----------------------------|
| current consumption max. (no load) | 250 mA (typ. 110 mA @ 24V) |
| output circuit                     | analog                     |
| output signal                      | 4 ... 20 mA                |
| load resistance (analog I)         | < (+Vs - 6 V) / 0,02 A     |
| output current                     | < 100 mA                   |
| alarm output                       | push-pull                  |
| short circuit protection           | yes                        |
| reverse polarity protection        | yes, Vs to GND             |

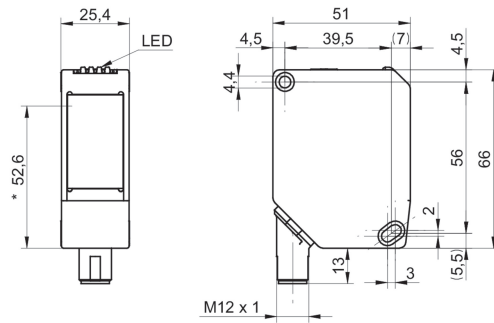
### mechanical data

|                  |                                |
|------------------|--------------------------------|
| width / diameter | 25,4 mm                        |
| height / length  | 66 mm                          |
| depth            | 51 mm                          |
| type             | rectangular                    |
| housing material | aluminum                       |
| front (optics)   | glass                          |
| connection types | connector M12 5 pin, rotatable |

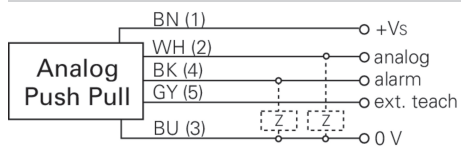
### ambient conditions

|                        |                |
|------------------------|----------------|
| ambient light immunity | < 40 kLux      |
| operating temperature  | -25 ... +50 °C |
| protection class       | IP 67          |
| typ. temp. coefficient | 0,4 mm / °C    |

## 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**

Complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to laser notice No. 50, dated June 24, 2007