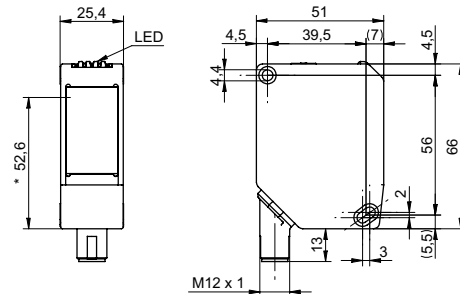


## Distance sensors

## OADM 250I1101/S14C

## dimension drawing



\* emitter axis

## general data

|                                   |                                     |
|-----------------------------------|-------------------------------------|
| measuring distance Sd             | 200 ... 4000 mm                     |
| measuring distance Sd (white 90%) | 200 ... 4000 mm                     |
| measuring distance Sd (grey 18%)  | 200 ... 4000 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                        | 1,3 mm                              |
| linearity                         | ± 15 mm                             |
| repeatability                     | ± 5 mm (with 40 kLux ambient light) |
| light source                      | pulsed red laser diode              |
| wave length                       | 660 nm                              |
| laser class                       | 2                                   |
| beam type                         | point                               |
| beam diameter                     | 5 ... 20 mm                         |

## electrical data

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

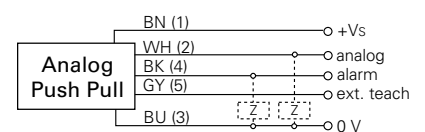
## mechanical data

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

## photo



## connection diagram



## laser warning



**LASER RADIATION**  
DO NOT STARE INTO BEAM  
Wavelength: 620 ... 680nm  
Max. av. Output: < 1mW  
IEC 60825-1, Ed. 2, 2007  
**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



**Distance sensors****OADM 250I1101/S14C****ambient conditions**

|                        |                |
|------------------------|----------------|
| ambient light immunity | < 40 kLux      |
| operating temperature  | -25 ... +50 °C |
| protection class       | IP 67          |
| typ. temp. coefficient | 0,2 mm /°C     |