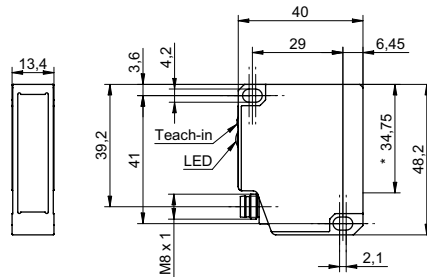


## Distance sensors

## OADM 13 (Laser, voltage output)

sample drawing



\* emitter axis

## general data

|                          |                             |
|--------------------------|-----------------------------|
| adjustment               | Teach-in: button / external |
| power on indication      | LED green                   |
| soiled lens indicator    | LED red                     |
| light source             | pulsed red laser diode      |
| wave length              | 650 nm                      |
| laser class              | 2                           |
| interference suppression | < 30 ms                     |

measuring distance  $S_d = 50 \dots 350 \text{ mm}$ 

|                     |                                     |
|---------------------|-------------------------------------|
| Teach-in range min. | > 5 mm                              |
| resolution          | 0,01 ... 0,4 mm                     |
| linearity error     | $\pm 0,05 \dots \pm 1,2 \text{ mm}$ |

measuring distance  $S_d = 50 \dots 550 \text{ mm}$ 

|                     |                                     |
|---------------------|-------------------------------------|
| Teach-in range min. | > 10 mm                             |
| resolution          | 0,01 ... 1,15 mm                    |
| linearity error     | $\pm 0,08 \dots \pm 3,5 \text{ mm}$ |

## electrical data

|                             |                |
|-----------------------------|----------------|
| voltage supply range +Vs    | 12 ... 28 VDC  |
| current consumption max.    | 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 |

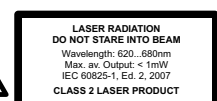
## mechanical data

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

sample picture



## laser warning



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

## remarks

For objects with a reflectivity < 6 %, the response time / release time is increased automatically up to max. 3 ms (OADM 13x6x75/S35A) resp. 5 ms (OADM 13x7x80/S35A).

Missed measurement up to 30 cycles (30 ms) will be suppressed. During this time the analog output stays on hold.

## Distance sensors

## OADM 13 (Laser, voltage output)

**ambient conditions**

operating temperature 0 ... +50 °C

protection class IP 67

| order reference   | measuring distance Sd | response time / release time | beam type | beam width | beam height | beam diameter |
|-------------------|-----------------------|------------------------------|-----------|------------|-------------|---------------|
| OADM 13U6475/S35A | 50 ... 350 mm         | < 0,9 ms                     | point     | -          | -           | 1 mm          |
| OADM 13U6575/S35A | 50 ... 350 mm         | < 0,9 ms                     | line      | 2 mm       | 4 ... 9 mm  | -             |
| OADM 13U7480/S35A | 50 ... 550 mm         | < 2 ms                       | point     | -          | -           | 1 mm          |
| OADM 13U7580/S35A | 50 ... 550 mm         | < 2 ms                       | line      | 2 ... 1 mm | 4 ... 11 mm | -             |