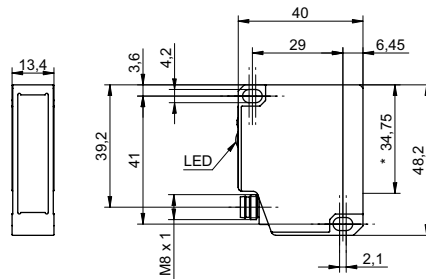


## Distance sensors

## OADM 13 (Laser, RS232 interface)

## sample drawing



\* emitter axis

## general data

|                     |                        |
|---------------------|------------------------|
| adjustment          | no                     |
| power on indication | LED green              |
| light source        | pulsed red laser diode |
| wave length         | 650 nm                 |
| laser class         | 2                      |
| alarm indicator     | LED red                |

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

|                 |                                     |
|-----------------|-------------------------------------|
| resolution      | 0,05 ... 0,4 mm                     |
| linearity error | $\pm 0,18 \dots \pm 1,2 \text{ mm}$ |

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

|                 |                                    |
|-----------------|------------------------------------|
| resolution      | 0,09 ... 1,15 mm                   |
| linearity error | $\pm 0,3 \dots \pm 3,5 \text{ mm}$ |

## electrical data

|                             |                   |
|-----------------------------|-------------------|
| voltage supply range +Vs    | 12 ... 28 VDC     |
| current consumption max.    | 80 mA             |
| output circuit              | RS 232            |
| baud rate                   | 38400, adjustable |
| 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 |

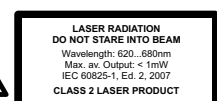
## ambient conditions

|                       |              |
|-----------------------|--------------|
| operating temperature | 0 ... +50 °C |
| protection class      | IP 67        |

## 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

**Distance sensors****OADM 13 (Laser, RS232 interface)**

| order reference          | measuring distance Sd | response time / release time | beam type | beam width | beam height | beam diameter |
|--------------------------|-----------------------|------------------------------|-----------|------------|-------------|---------------|
| <b>OADM 13T6475/S35A</b> | 50 ... 350 mm         | < 0,9 ms                     | point     | -          | -           | 1 mm          |
| <b>OADM 13T6575/S35A</b> | 50 ... 350 mm         | < 0,9 ms                     | line      | 2 mm       | 4 ... 9 mm  | -             |
| <b>OADM 13T7480/S35A</b> | 50 ... 550 mm         | < 2 ms                       | point     | -          | -           | 1 mm          |
| <b>OADM 13T7580/S35A</b> | 50 ... 550 mm         | < 2 ms                       | line      | 2 mm       | 4 ... 13 mm | -             |