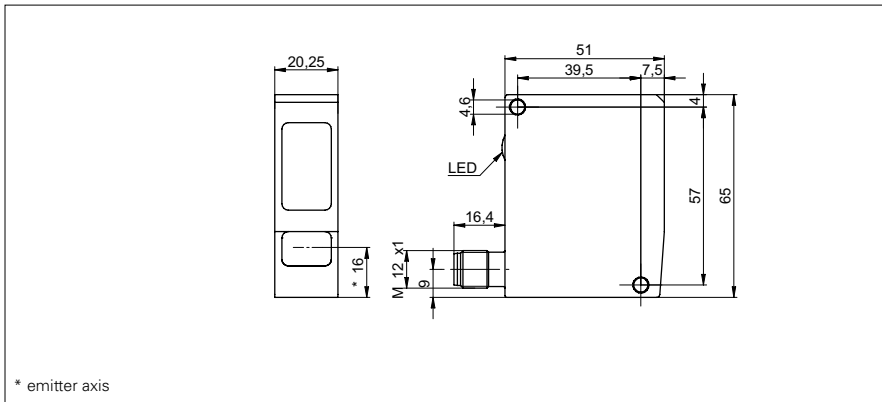


Distance sensors

OADR 20I6585/S14F

dimension drawing



general data

| | |
|------------------------|------------------------|
| measuring distance Sd | 100 ... 600 mm |
| special type | Washdown design |
| adjustment | external |
| Teach-in range min. | > 10 mm |
| power on indication | LED green |
| soiled lens indicator | LED red |
| resolution | 0,015 ... 0,67 mm |
| linearity error | ± 0,05 ... ± 2 mm |
| light source | pulsed red laser diode |
| wave length | 650 nm |
| laser class | 2 |
| beam type | line |
| beam width | 2,5 mm |
| beam height | 5,5 ... 21 mm |
| temperature drift | < 0,03 % Sde/K |
| approvals/certificates | Ecolab |

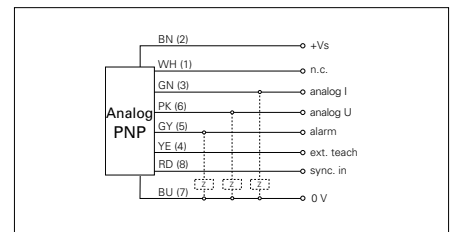
electrical data

| | |
|------------------------------------|----------------------------|
| response time / release time | < 0,9 ms |
| voltage supply range +Vs | 12 ... 28 VDC |
| current consumption max. (no load) | 100 mA |
| 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 |

photo



connection diagram



alignment of the laser line

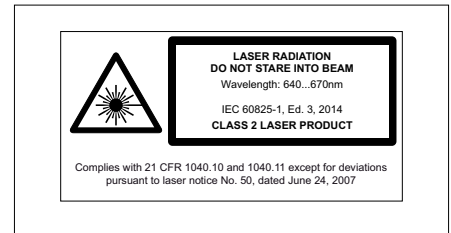


Distance sensors
OADR 20I6585/S14F
mechanical data

| | |
|------------------|------------------------------|
| width / diameter | 20,3 mm |
| height / length | 65 mm |
| depth | 51 mm |
| type | rectangular |
| housing material | stainless steel 1.4404 (V4A) |
| front (optics) | PMMA |
| connection types | connector M12 8 pin |

ambient conditions

| | |
|------------------------|-------------------|
| ambient light immunity | < 10 kLux |
| operating temperature | 0 ... +50 °C |
| protection class | IP 69K & proTect+ |

laser warning

proTect⁺


- Sensor FDA compliant and Ecolab approved
- sensitivity adjustable: via Teach-in wire input
- For objects with a reflectivity < 7 % (OADR 20I6x85/S14F) the response time/ release time is increased automatically up to 2.8 ms.