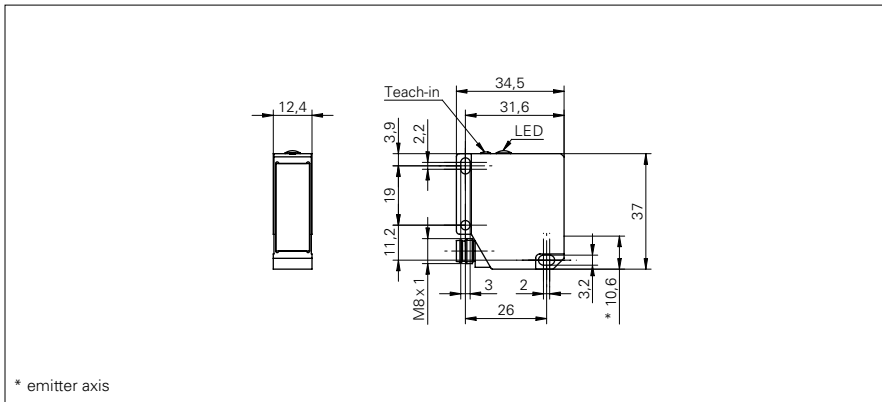


Difference sensors

OBDM 12 (step analysis)

sample drawing



* emitter axis

general data

| | |
|------------------------|------------------------|
| type | step analysis |
| sensing distance T_w | 16 ... 120 mm |
| Teach-in range min. | > 0,2 mm |
| adjustment | Teach-in |
| power on indication | LED green |
| output indicator | LED red |
| light source | pulsed red laser diode |
| laser class | 2 |
| wave length | 650 nm |
| beam diameter | 0,5 ... 0,2 mm |

electrical data

| | |
|------------------------------------|----------------|
| response time | < 5 ms |
| voltage supply range +Vs | 12 ... 28 VDC |
| current consumption max. (no load) | 80 mA |
| current consumption typ. | 40 mA |
| output current | < 100 mA |
| output pulse length | 10 ms |
| voltage drop V_d | < 2,8 VDC |
| reverse polarity protection | yes, Vs to GND |
| short circuit protection | yes |

mechanical data

| | |
|------------------|--------------------|
| width / diameter | 12,4 mm |
| height / length | 37 mm |
| depth | 34,5 mm |
| type | rectangular |
| front (optics) | glass |
| housing material | die-cast zinc |
| connection types | connector M8 4 pin |

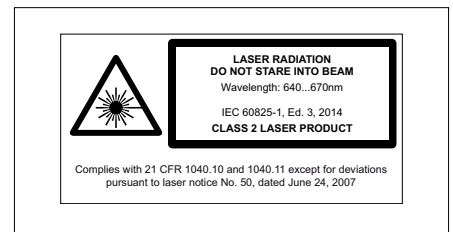
ambient conditions

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

sample picture



laser warning



Difference sensors**OBDM 12 (step analysis)**

| order reference | output circuit |
|------------------------|-----------------------|
| OBDM 12N6910/S35A | NPN |
| OBDM 12P6910/S35A | PNP |