

OBDM 12P6940/S35A

Difference sensors

Article number: 10158751

Overview

- window analysis
- 16 ... 120 mm
- pulsed red laser diode
- PNP
- Teach-in
- connector M8 4 pin
- 50 °C
- IP 67



Picture similar



Technical data

General data

| | |
|---------------------|------------------------|
| Type | Window analysis |
| Sensing distance Tw | 16 ... 120 mm |
| Teach-in range min. | > 0.4 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 | < 1 ms |
| Voltage supply range +Vs | 12 ... 28 VDC |
| Current consumption max. (no load) | 80 mA |
| Current consumption typ. | 40 mA |

Electrical data

| | |
|-----------------------------|----------------|
| Output circuit | PNP |
| Output current | < 100 mA |
| Voltage drop Vd | < 2.8 VDC |
| Reverse polarity protection | Yes, Vs to GND |
| Short circuit protection | Yes |

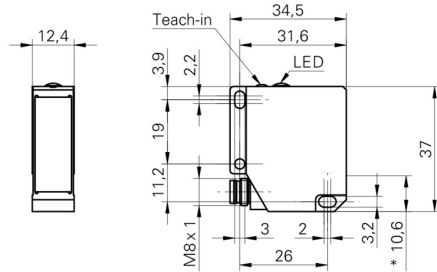
Mechanical data

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

Dimension drawing



- * emitter axis

Laser warning



LASER RADIATION
DO NOT STARE INTO BEAM

Wavelength: 640...670nm

IEC 60825-1, Ed. 3, 2014
CLASS 2 LASER PRODUCT

IEC 60825-1/2014 Complies with 21 CFR 1040.10 and 1040.11 except for conformance with IEC 60825-1 Ed. 3., as described in Laser Notice No. 56, dated May 8, 2019

Connection diagram

