

## OHDM 13P6901/S35A

Diffuse sensors with background suppression - miniature

Article number: 10162723

### Overview

- background suppression
- 50 ... 550 mm
- pulsed red laser diode
- PNP
- Teach-in
- connector M8 4 pin
- 50 °C
- IP 67



Picture similar



### Technical data

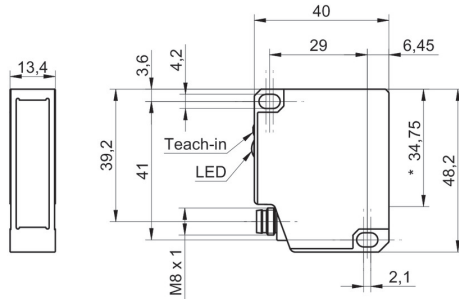
| General data                       |                        | Electrical data             |                      |
|------------------------------------|------------------------|-----------------------------|----------------------|
| Type                               | Background suppression | Current consumption typ.    | 40 mA                |
| Light source                       | Pulsed red laser diode | Voltage drop Vd             | < 2.8 VDC            |
| Sensing distance Tw                | 50 ... 550 mm          | Output function             | Light / dark operate |
| Sensing range Tb (at Tw max.)      | 50 ... 550 mm          | Output circuit              | PNP                  |
| Sensing range Tb (at Tw min.)      | 16 ... 17 mm           | Output current              | < 100 mA             |
| Power on indication                | LED green              | Short circuit protection    | Yes                  |
| Light indicator                    | LED red                | Reverse polarity protection | Yes, Vs to GND       |
| Sensing distance adjustment        | Teach-in               | Mechanical data             |                      |
| Laser class                        | 2                      | Width / diameter            | 13.4 mm              |
| Wave length                        | 675 nm                 | Height / length             | 48.2 mm              |
| Beam diameter                      | 1 mm                   | Depth                       | 40 mm                |
| Beam type                          | Point                  | Type                        | Rectangular          |
| Electrical data                    |                        | Housing material            | Aluminum             |
| Response time                      | < 5 ms                 | Front (optics)              | Glass                |
| Release time                       | < 15 ms                | Connection types            | Connector M8 4 pin   |
| Voltage supply range +Vs           | 12 ... 28 VDC          | Ambient conditions          |                      |
| Current consumption max. (no load) | 80 mA                  | Protection class            | IP 67                |
|                                    |                        | Operating temperature       | 0 ... +50 °C         |

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## 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

