

## FHDM 12P5001/0300

Diffuse sensors with background suppression - miniature

Article number: 10167340

### Overview

- background suppression
- 15 ... 300 mm
- pulsed red LED
- NPN
- mechanical, 5 turn
- cable 4 pin, 3 m
- -25 ... 65 °C
- IP 67



Picture similar



### Technical data

#### General data

|                                     |                        |
|-------------------------------------|------------------------|
| Type                                | Background suppression |
| Sensing distance Tw                 | 15 ... 300 mm          |
| Sensing range Tb (at Tw max.)       | 15 ... 300 mm          |
| Sensing range Tb (at Tw min.)       | 5 ... 15 mm            |
| Light indicator                     | LED yellow             |
| Sensing distance adjustment         | Mechanical, 5 turn     |
| Suppression of reciprocal influence | Yes                    |

#### Light Source

|              |                |
|--------------|----------------|
| Light source | Pulsed red LED |
| Wave length  | 660 nm         |

#### Electrical data

|                                    |               |
|------------------------------------|---------------|
| Response time / release time       | < 1 ms        |
| Voltage supply range +Vs           | 10 ... 30 VDC |
| Current consumption max. (no load) | 35 mA         |

#### Electrical data

|                             |                      |
|-----------------------------|----------------------|
| Current consumption typ.    | 25 mA                |
| Voltage drop Vd             | <1.8 VDC             |
| Output function             | Light / dark operate |
| Output circuit              | PNP                  |
| Output current              | 100 mA               |
| Short circuit protection    | Yes                  |
| Reverse polarity protection | Yes                  |

#### Mechanical data

|                  |                  |
|------------------|------------------|
| Width / diameter | 12.4 mm          |
| Height / length  | 35 mm            |
| Depth            | 35 mm            |
| Design           | Rectangular      |
| Housing material | Die-cast zinc    |
| Front (optics)   | PMMA             |
| Connection types | Cable 4 pin, 3 m |

#### Ambient conditions

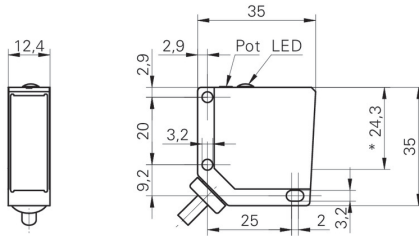
|                       |                |
|-----------------------|----------------|
| Protection class      | IP 67          |
| Operating temperature | -25 ... +65 °C |

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### Dimension drawing



### Connection diagram

