

FHDM 12P5001

Diffuse sensors with background suppression - miniature

Article number: 10234166

Overview

- background suppression
- 15 ... 300 mm
- pulsed red LED
- PNP
- mechanical, 5 turn
- cable 4 pin, 2 m
- -25 ... 65 °C
- IP 67



Picture similar



Technical data

General data

| | |
|-------------------------------------|------------------------|
| Type | Background suppression |
| Light source | Pulsed red LED |
| Sensing distance T_w | 15 ... 300 mm |
| Sensing range T_b (at T_w max.) | 15 ... 300 mm |
| Sensing range T_b (at T_w min.) | 5 ... 15 mm |
| Light indicator | LED yellow |
| Sensing distance adjustment | Mechanical, 5 turn |
| Wave length | 660 nm |
| Suppression of reciprocal influence | Yes |

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 V_d | < 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 |
| Type | Rectangular |
| Housing material | Die-cast zinc |
| Front (optics) | PMMA |
| Connection types | Cable 4 pin, 2 m |

Ambient conditions

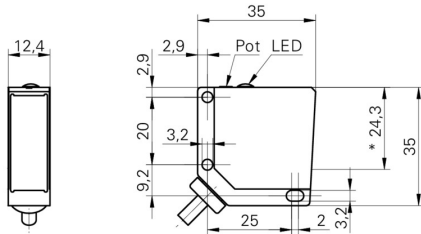
| | |
|-----------------------|----------------|
| Protection class | IP 67 |
| Operating temperature | -25 ... +65 °C |

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Dimension drawing



- * emitter axis

Connection diagram

