

## OPDM 12N5101/S35A

Retro-reflective sensors - miniature

Article number: 10132221

### Overview

- retro-reflective laser sensor
- 7 m
- pulsed red laser diode
- NPN
- no
- connector M8 4 pin
- 10 ... 50 °C
- IP 67



Picture similar



### Technical data

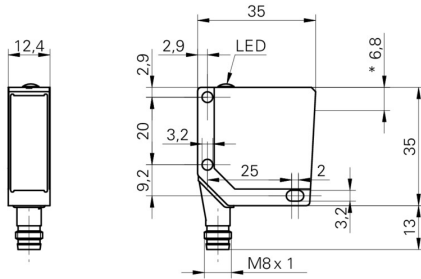
| General data                       |                               | Electrical data             |                      |
|------------------------------------|-------------------------------|-----------------------------|----------------------|
| Type                               | Retro-reflective laser sensor | Current consumption typ.    | 40 mA                |
| Version                            | Single lens optics            | Voltage drop Vd             | < 1,8 VDC            |
| Light source                       | Pulsed red laser diode        | Output function             | Light / dark operate |
| Actual range Sb                    | 7 m                           | Output circuit              | NPN                  |
| Nominal range Sn                   | 8 m                           | Output current              | < 100 mA             |
| Repeat accuracy                    | < 0,1 mm at laser focus       | Short circuit protection    | Yes                  |
| Polarization filter                | Yes                           | Reverse polarity protection | Yes                  |
| Alignment / soiled lens indicator  | Flashing light indicator      | Mechanical data             |                      |
| Light indicator                    | LED yellow                    | Width / diameter            | 12,4 mm              |
| Power on indication                | LED green                     | Height / length             | 35 mm                |
| Sensitivity adjustment             | No                            | Depth                       | 35 mm                |
| Laser class                        | 2                             | Type                        | Rectangular          |
| Distance to focus                  | 400 mm                        | Housing material            | Die-cast zinc        |
| Wave length                        | 650 nm                        | Front (optics)              | Glass                |
| Electrical data                    |                               | Connection types            | Connector M8 4 pin   |
| Response time / release time       | < 0,1 ms                      | Ambient conditions          |                      |
| Voltage supply range +Vs           | 10 ... 30 VDC                 | Operating temperature       | -10 ... +50 °C       |
| Current consumption max. (no load) | 50 mA                         | Protection class            | IP 67                |

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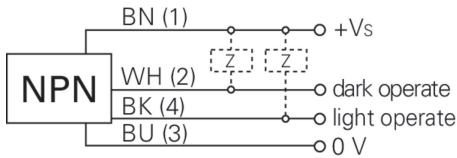
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## Dimension drawing



## Connection diagram



## 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

## Beam characteristic (typically)

