

# OBDM 12N6920/S35A

Difference sensors

Article number: 10158754

## Overview

- min./max. analysis
- 16 ... 120 mm
- pulsed red laser diode
- NPN
- Teach-in
- connector M8 4 pin
- 50 °C
- IP 67



Picture similar



## Technical data

### General data

Type	min./max. analysis
Sensing distance Tw	16 ... 120 mm
Teach-in range min.	> 0.3 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

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

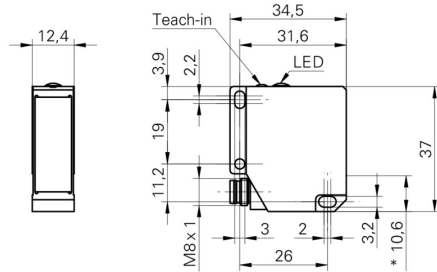
### Mechanical data

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

