

## Overview

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



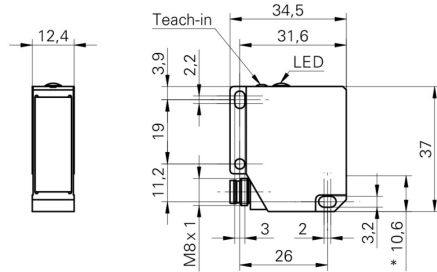
Picture similar



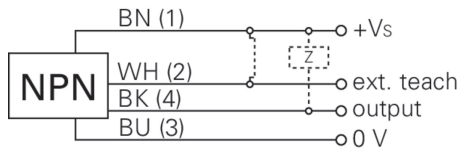
## Technical data

General data		Electrical data	
Type	Tolerance analysis	Output circuit	NPN
Sensing distance Tw	16 ... 120 mm	Output current	< 100 mA
Teach-in range min.	> 0,4 mm	Voltage drop Vd	< 2,8 VDC
Adjustment	Teach-in	Reverse polarity protection	Yes, Vs to GND
Power on indication	LED green	Short circuit protection	Yes
Output indicator	LED red	Mechanical data	
Light source	Pulsed red laser diode	Width / diameter	12,4 mm
Laser class	2	Height / length	37 mm
Wave length	650 nm	Depth	34,5 mm
Beam diameter	0,5 ... 0,2 mm	Type	Rectangular
Electrical data		Front (optics)	Glass
Response time	< 1 ms	Housing material	Die-cast zinc
Voltage supply range +Vs	12 ... 28 VDC	Connection types	Connector M8 4 pin
Current consumption max. (no load)	80 mA	Ambient conditions	
Current consumption typ.	40 mA	Operating temperature	0 ... +50 °C
		Protection class	IP 67

**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