Distance sensors

O300.DL-GM1J.72N

Article number: 11199079

Overview

- distance measuring
- 30 … 250 mm
- pulsed red laser diode
- push-pull
- Teach-in and IO-Link
- connector M8 4 pin
- -10 … 60 °C
- IP 67

Picture similar

Technical data

General data	
Type	Distance measuring
Version	IO-Link measuring
Measuring distance Sd	30 … 250 mm
Focal distance	400 mm
Adjustment	Teach-in and IO-Link
Power on indication	LED green
Light indicator	LED yellow
Resolution	500 … 10000 µm
Linearity error	± 1,5 … 12,5 mm
Beam type	Point
Suppression of reciprocal influence	Yes
Alignment optical axis	< 2°
Temperature drift	< 0,2 % Sde/K
Light Source	
Light source	Pulsed red laser diode
Wave length	656 nm
Laser class	1
Electrical data	
Response time / release time	< 0,25 ms
Voltage supply range +Vs	11 … 30 VDC
Current consumption max. (no load)	30 mA

Electrical data	
Voltage drop Vd	< 2,5 VDC
Output circuit	Push-pull
Output current	< 100 mA
Short circuit protection	Yes
Reverse polarity protection	Yes
Communication interface	
Interface	IO-Link V1.1
Baud rate	230,4 kBaud (COM 3)
Cycle time	≥ 0,6 ms
Process data length	3 Byte
Process data structure	Bit 0 = BDC1 Bit 2 = quality Bit 3 = alarm Bit 8-23 = 16 Bit measurement
Mechanical data	
Width / diameter	12,9 mm
Height / length	32,3 mm
Depth	23 mm
Type	Rectangular
Housing material	Plastic (ASA, PMMA)
Front (optics)	PMMA
Connection types	Connector M8 4 pin
Ambient conditions	
Operating temperature	-10 … +60 °C
Protection class	IP 67

2020-12-16 EN/20170206 Design and specifications subject to change without notice

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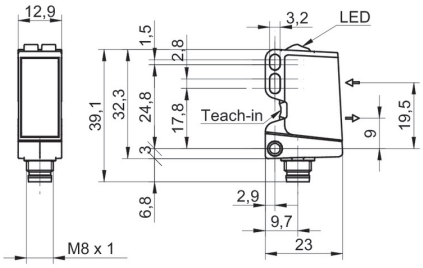
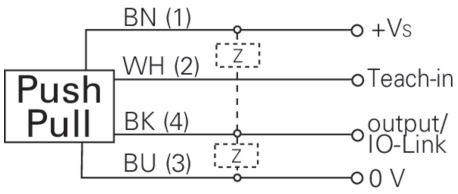
Dimension drawing



Connection diagram

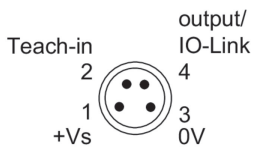


Laser warning

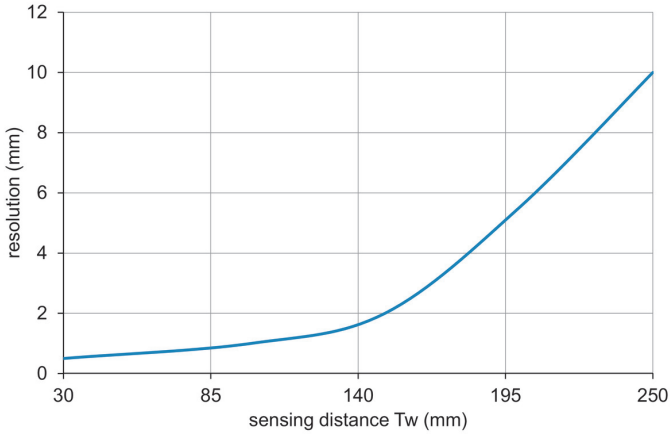
CLASS 1 LASER PRODUCT

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

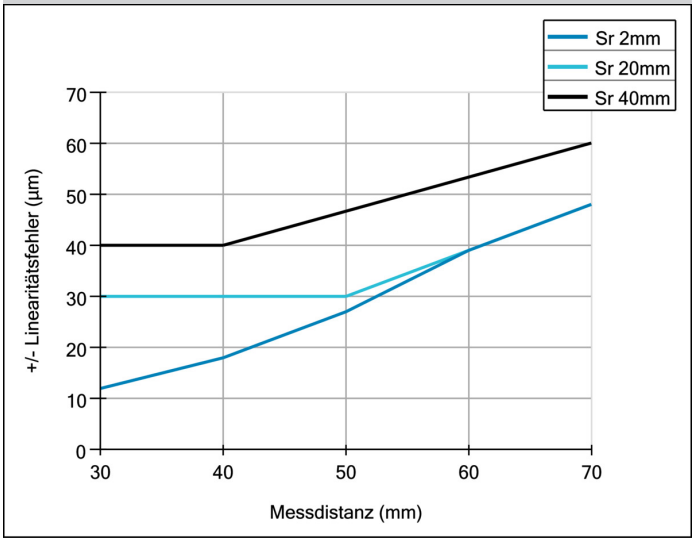
Pin assignment



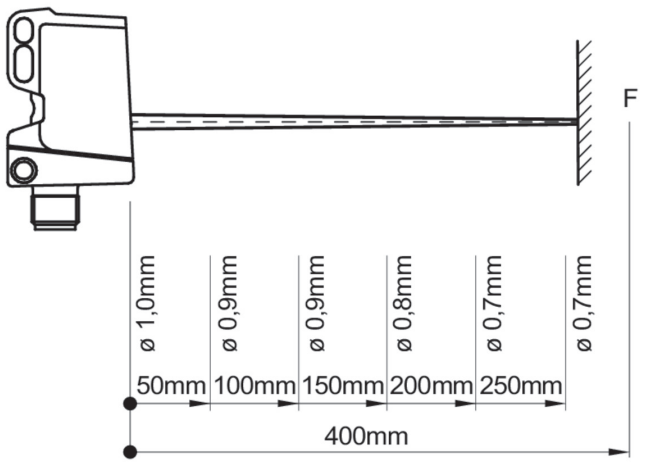
Resolution



Linearity error



Beam characteristic (typically)



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