Distance sensors

OT300.DL-UBZZB.72N

Article number: 11240055

Overview

- Distance measurement via analog output
- Reliable also on very dark and shiny objects
- Manipulation-proof, simple teach-in via qTeach or line teach
- Longest distances thanks to time of flight principle
- Compact, miniaturized housing

Picture similar

Technical data

General data	
Type	Distance measuring
Version	Time of Flight
Measuring distance Sd	100 … 1800 mm
Measuring range Mr	1700 mm
Focal distance	700 mm
Adjustment	qTeach / external
Power on indication	LED green
Output indicator	LED yellow
Repeat accuracy	≤ 1400 … 5500 µm
Linearity error	± 10 mm
Beam type	Point
Suppression of reciprocal influence	Yes
Alignment optical axis	< 2°
Temperature drift	± 15 mm
Light Source	
Light source	Pulsed red laser diode
Wave length	680 nm
Laser class	1
Electrical data	
Response time / release time	< 8 ms
Voltage supply range +Vs	12 … 30 VDC

Electrical data	
Current consumption max. (no load)	60 mA
Output circuit	Analog 0 ... 10 VDC
Short circuit protection	Yes
Reverse polarity protection	Yes, Vs to GND
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	
Protection class	IP 67
Operating temperature	-20 … +50 °C
Storage temperature	-40 … +70 °C
Vibration (sinusoidal)	IEC 60068-2-6:2008 10 g at f = 10 - 2000 Hz, duration 150 min per axis
Shock (semi-sinusoidal)	IEC 60068-2-27:2009 50 g / 11 ms, 10 impulses per axis and direction

Remarks

- Measurement on 90% remission (white)

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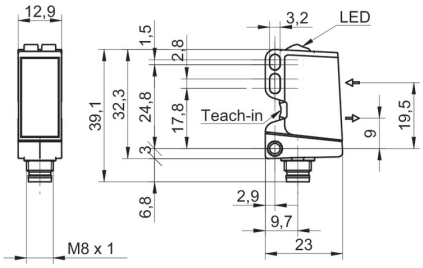
Dimension drawing

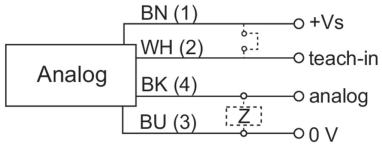


Laser warning

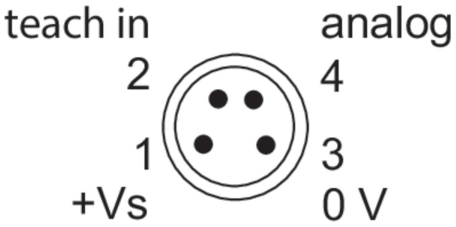
CLASS 1 LASER PRODUCT

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

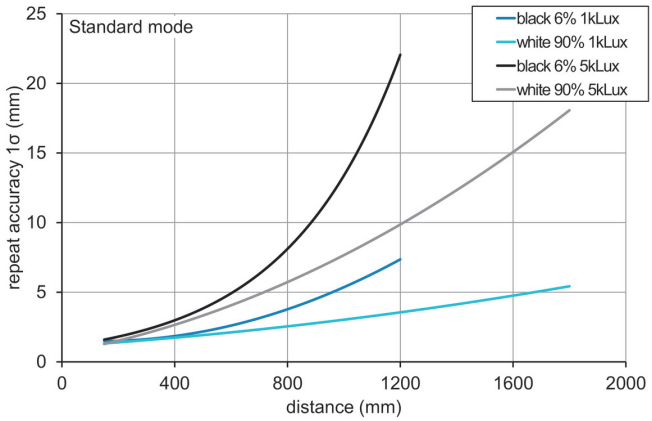
Connection diagram



Pin assignment



Repeat accuracy



Beam characteristic (typically)