

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

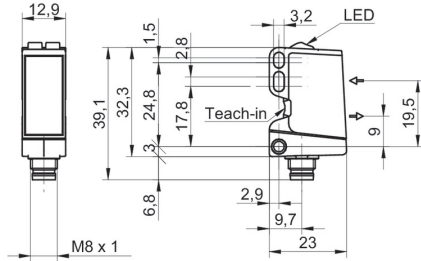
Ambient conditions

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

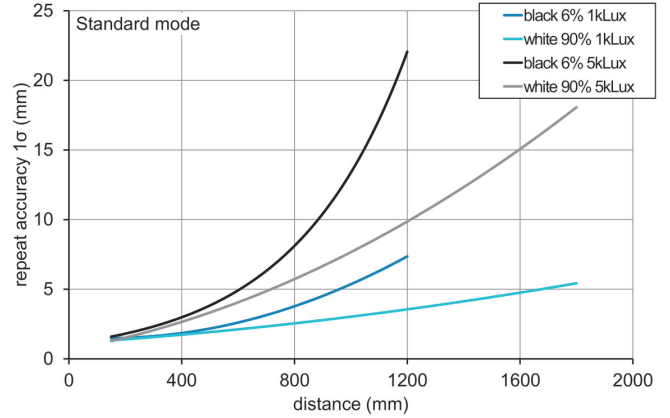
Remarks

- Measurement on 90% remission (white)

Dimension drawing



Repeat accuracy



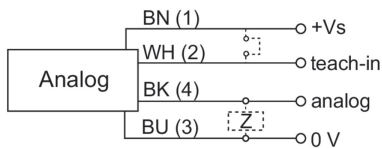
Laser warning

**CLASS 1 LASER
PRODUCT**

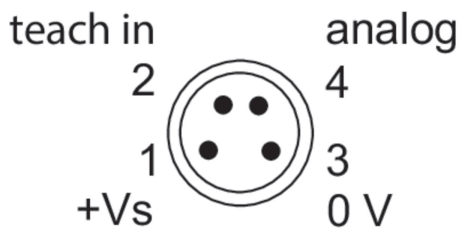
IEC 60825-1/2014

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



Beam characteristic (typically)

