

Preliminary

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
Special type	Hygienic design
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
Approvals/certificates	Ecolab Adapted from EHEDG

Light Source

Light source	Pulsed red laser diode
Wave length	680 nm
Laser class	1

Electrical data

Response time / release time	< 8 ms
------------------------------	--------

Electrical data

Voltage supply range +Vs	12 ... 30 VDC
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	16.5 mm
Height / length	34.6 mm
Depth	28.7 mm
Design	Rectangular
Housing material	Stainless steel 1.4404 (V4A)
Front (optics)	PMMA
Connection types	Flylead connector M8 4 pin, L=200 mm

Ambient conditions

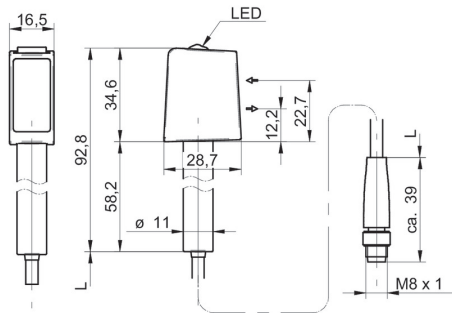
Protection class	IP 68/69 & proTect+
Operating temperature	-10 ... +50 °C
Storage temperature	-40 ... +70 °C
Vibration (sinusoidal)	IEC 60068-2-6:2008 10 g at f = 10 - 2000 Hz, duration 150 min per axis
Shock (semi-sinusoidal)	IEC 60068-2-27:2009 50 g / 11 ms, 10 impulses per axis and direction

Preliminary

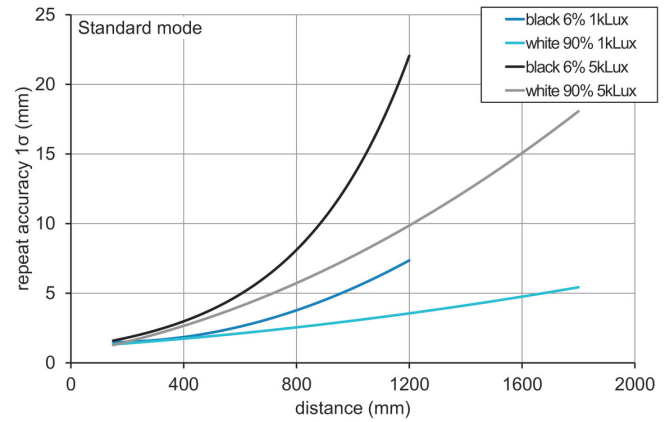
Remarks

- Measurement on 90% remission (white)

Dimension drawing



Repeat accuracy



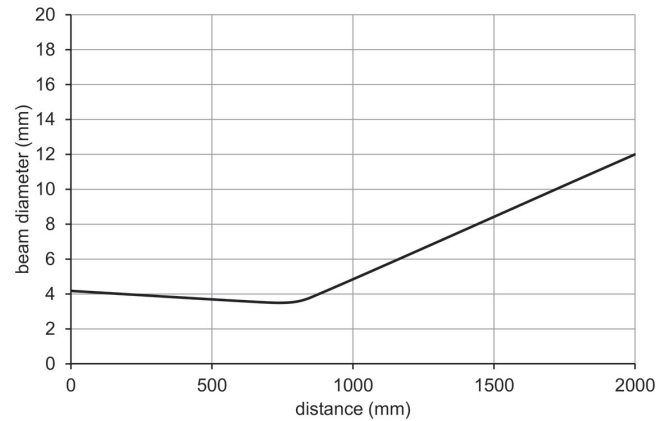
Laser warning

**CLASS 1 LASER
PRODUCT**

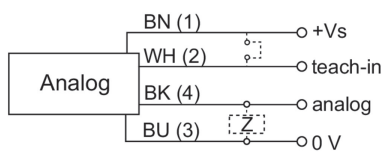
IEC 60825-1/2014

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

Beam characteristic (typically)



Connection diagram



Pin assignment

