

OADM 13I7745/S35A

Distance sensors - miniature

Article number: 11017068

Overview

- 60 ... 100 mm
- pulsed red laser diode
- analog
- Teach-in: button / external
- connector M8 4 pin
- 50 °C
- IP 67



Picture similar



Technical data

General data

Measuring distance Sd	60 ... 100 mm
Adjustment	Teach-in: button / external
Teach-in range min.	> 4 mm
Power on indication	LED green
Soiled lens indicator	LED red
Resolution	15 ... 38 µm
Linearity error	± 0.047 ... 0.118 mm
Beam type	Line
Interference suppression	< 30 ms
Object reflectivity	> 0.8 %
Temperature drift	< 0,07 % Sde/K

Light Source

Light source	Pulsed red laser diode
Wave length	650 nm
Laser class	1

Electrical data

Response time / release time	< 2 ms
Voltage supply range +Vs	12 ... 28 VDC

Electrical data

Current consumption max. (no load)	100 mA
Output circuit	Analog
Output signal	4 ... 20 mA
Load resistance	< (+Vs - 6 V) / 0,02 A
Short circuit protection	Yes
Reverse polarity protection	Yes, Vs to GND

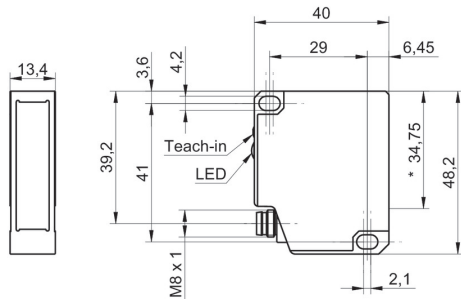
Mechanical data

Width / diameter	13.4 mm
Height / length	48.2 mm
Depth	40 mm
Type	Rectangular
Housing material	Aluminum
Front (optics)	Glass
Connection types	Connector M8 4 pin

Ambient conditions

Ambient light immunity	< 100 kLux
Protection class	IP 67
Operating temperature	0 ... +50 °C

Dimension drawing



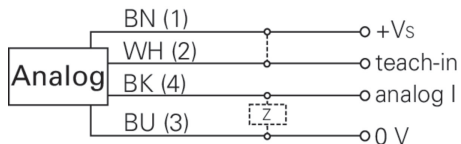
- * emitter axis

Laser warning

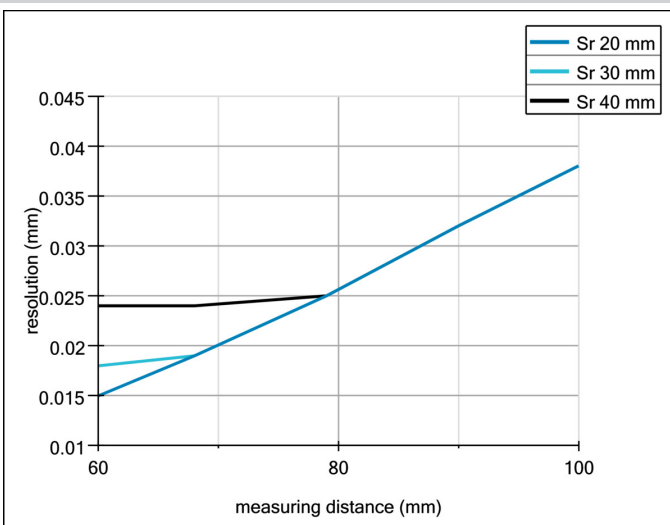
CLASS 1 LASER PRODUCT

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

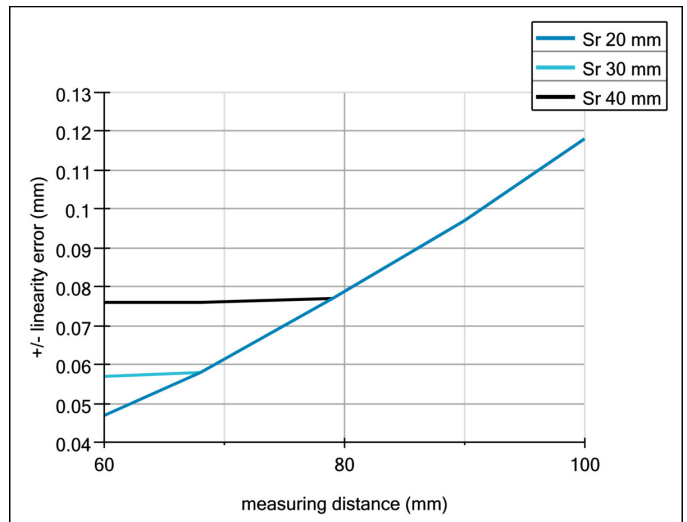
Connection diagram



Resolution



Linearity error



Beam characteristic (typically)

