Distance sensors

OADR 20I6485/S14F

Distance sensors

Article number: 11040827

Overview

- 100 … 600 mm
- pulsed red laser diode
- analog
- external
- connector M12 8 pin
- 50 °C
- IP 69K & proTect+



Picture similar

Technical data

General data	
Measuring distance Sd	100 … 600 mm
Special type	Washdown design
Beam diameter	2 mm
Adjustment	External
Teach-in range min.	> 10 mm
Power on indication	LED green
Soiled lens indicator	LED red
Resolution	15 … 670 µm
Linearity error	± 0,05 … 2 mm
Beam type	Point
Temperature drift	< 0,03 % Sde/K
Approvals/certificates	Ecolab
Light Source	
Light source	Pulsed red laser diode
Wave length	650 nm
Laser class	2
Electrical data	
Response time / release time	< 0,9 ms
Voltage supply range +Vs	12 … 28 VDC
Current consumption max. (no load)	100 mA

Electrical data	
Output circuit	Analog
Output signal	4 ... 20 mA / 0 ... 10 VDC
Load resistance (analog I)	< (+Vs - 6 V) / 0,02 A
Load resistance (analog U)	> 100 kOhm
Output current	< 100 mA
Alarm output	PNP
Short circuit protection	Yes
Reverse polarity protection	Yes, Vs to GND
Mechanical data	
Width / diameter	20,3 mm
Height / length	65 mm
Depth	51 mm
Type	Rectangular
Housing material	Stainless steel 1.4404 (V4A)
Front (optics)	PMMA
Connection types	Connector M12 8 pin
Ambient conditions	
Ambient light immunity	< 10 kLux
Operating temperature	0 … +50 °C
Protection class	IP 69K & proTect+

2020-12-17 EN/20170206 Design and specifications subject to change without notice

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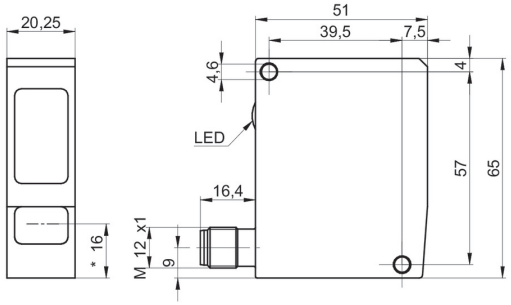
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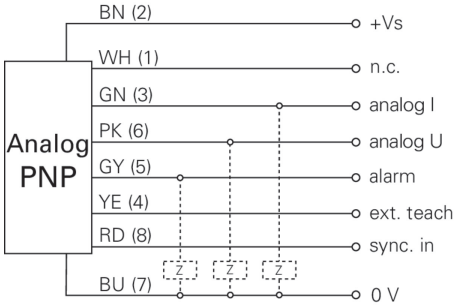
Remarks

- Sensor FDA compliant and Ecolab approved
- Sensitivity adjustable: via Teach-in wire input
- For objects with a reflectivity < 7 % (OADR 20I6x85/S14F) the response time/ release time is increased automatically up to 2.8 ms.

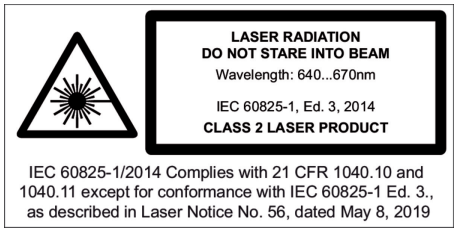
Dimension drawing



Connection diagram

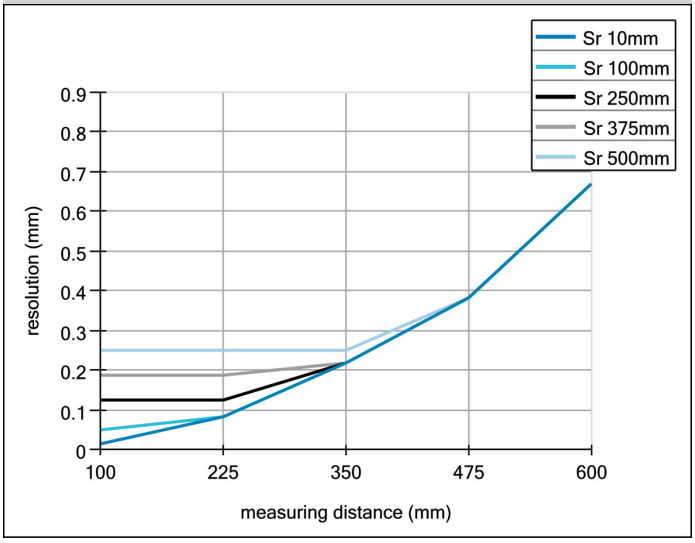


Laser warning

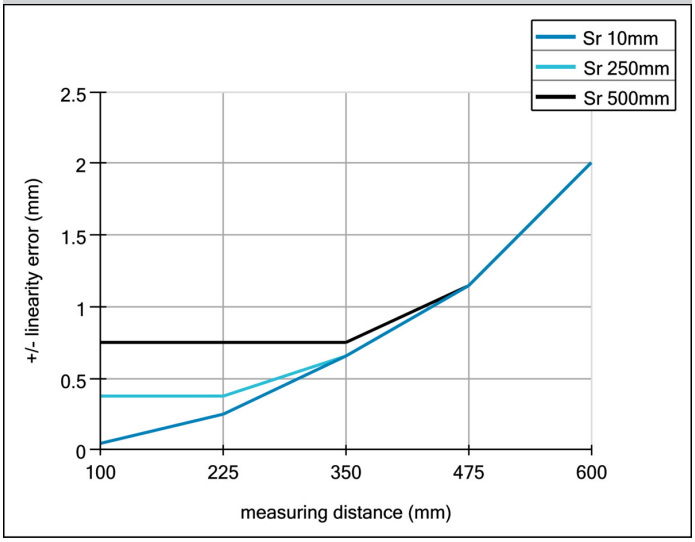


IEC 60825-1/2014 Complies with 21 CFR 1040.10 and 1040.11 except for conformance with IEC 60825-1 Ed. 3., as described in Laser Notice No. 56, dated May 8, 2019

Resolution



Linearity error



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