

Overview

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



Picture similar



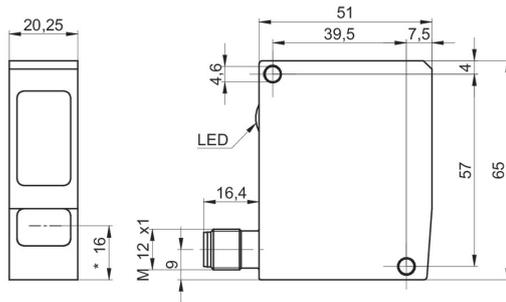
Technical data

General data		Electrical data	
Measuring distance Sd	100 ... 600 mm	Output circuit	Analog
Special type	Washdown design	Output signal	4 ... 20 mA / 0 ... 10 VDC
Beam diameter	2 mm	Load resistance (analog I)	< (+Vs - 6 V) / 0,02 A
Adjustment	External	Load resistance (analog U)	> 100 kOhm
Teach-in range min.	> 10 mm	Output current	< 100 mA
Power on indication	LED green	Alarm output	PNP
Soiled lens indicator	LED red	Short circuit protection	Yes
Resolution	15 ... 670 µm	Reverse polarity protection	Yes, Vs to GND
Linearity error	± 0.05 ... 2 mm	Mechanical data	
Beam type	Point	Width / diameter	20.3 mm
Temperature drift	< 0,03 % Sde/K	Height / length	65 mm
Approvals/certificates	Ecolab	Depth	51 mm
Light Source		Type	Rectangular
Light source	Pulsed red laser diode	Housing material	Stainless steel 1.4404 (V4A)
Wave length	650 nm	Front (optics)	PMMA
Laser class	2	Connection types	Connector M12 8 pin
Electrical data		Ambient conditions	
Response time / release time	< 0.9 ms	Ambient light immunity	< 10 kLux
Voltage supply range +Vs	12 ... 28 VDC	Protection class	IP 69K & proTect+
Current consumption max. (no load)	100 mA	Operating temperature	0 ... +50 °C

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



- * emitter axis

Laser warning

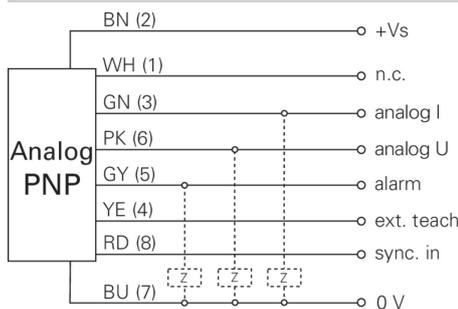


LASER RADIATION
DO NOT STARE INTO BEAM
Wavelength: 640...670nm

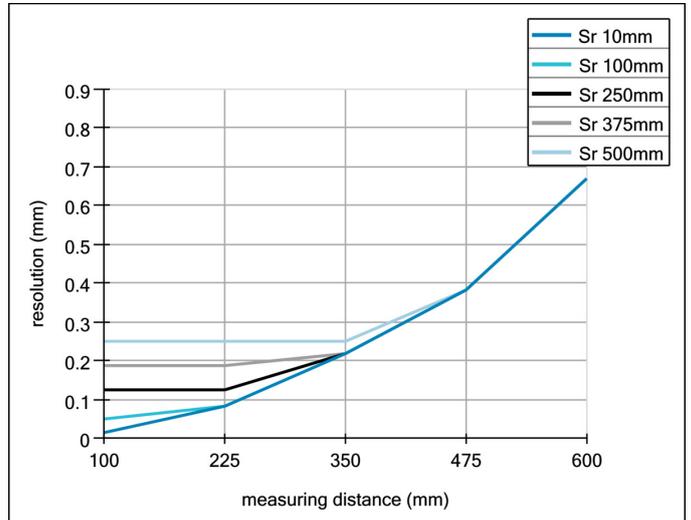
IEC 60825-1, Ed. 3, 2014
CLASS 2 LASER PRODUCT

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

