

Overview

- 30 ... 130 mm
- pulsed red laser diode
- analog
- Teach-in: button / external
- connector M12 8 pin, rotatable
- 50 °C
- IP 67



Picture similar



Technical data

General data

Measuring distance Sd	30 ... 130 mm
Adjustment	Teach-in: button / external
Teach-in range min.	> 3 mm
Power on indication	LED green
Soiled lens indicator	LED red
Resolution	5 ... 60 µm
Linearity error	± 0.015 ... 0.2 mm
Beam type	Line
Beam width	2 ... 1 mm
Beam height	3 ... 5 mm
Temperature drift	< 0,03 % Sde/K

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

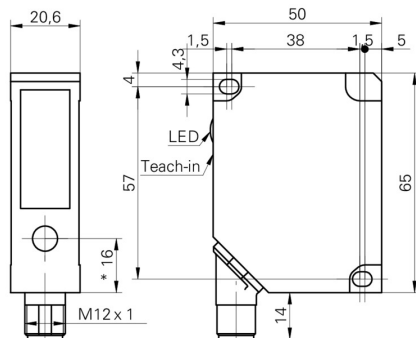
Mechanical data

Width / diameter	20.6 mm
Height / length	65 mm
Depth	50 mm
Type	Rectangular
Housing material	Die-cast zinc
Front (optics)	Glass
Connection types	Connector M12 8 pin, rotatable

Ambient conditions

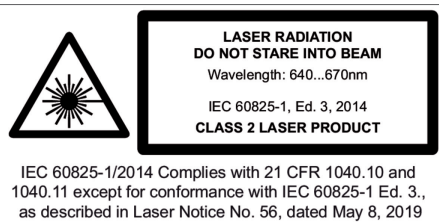
Ambient light immunity	< 40 kLux
Protection class	IP 67
Operating temperature	0 ... +50 °C

Dimension drawing

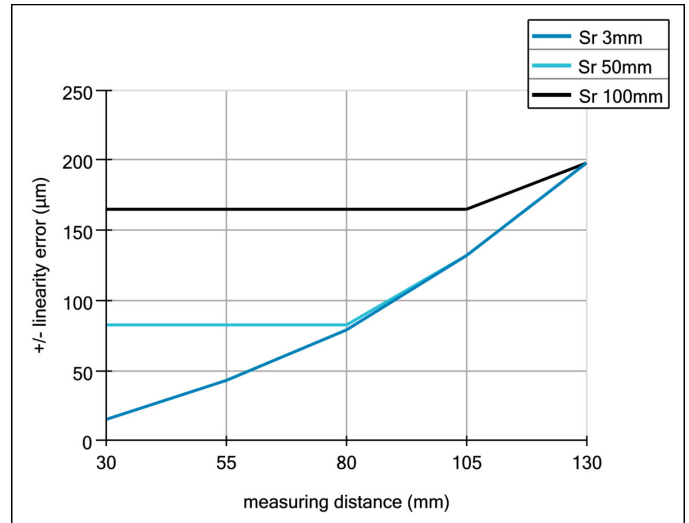


- * emitter axis

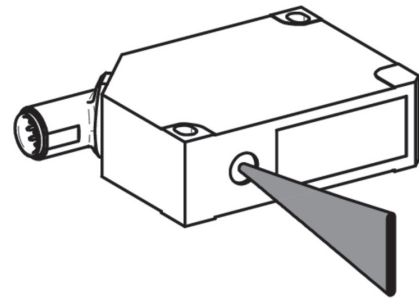
Laser warning



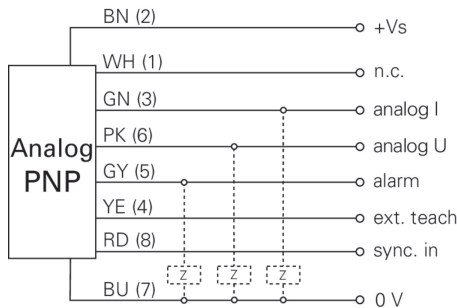
Linearity error



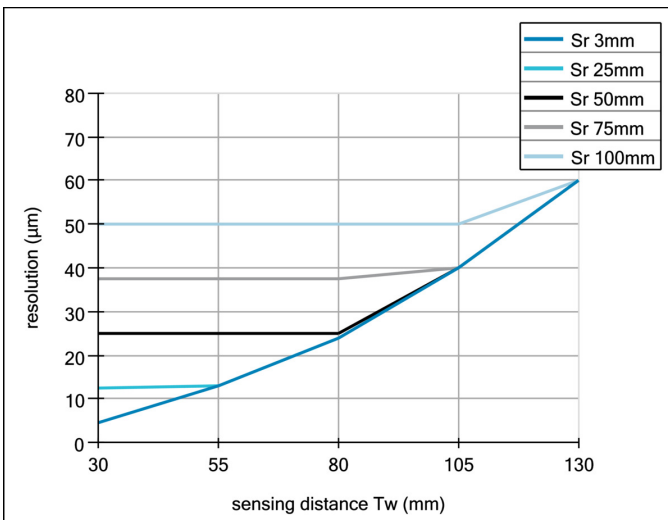
Beam characteristic (typically)



Connection diagram



Resolution



OADM 20I6560/S14F

Distance sensors

Article number: 10144604

Alignment of the laserline

