

Overview

- measuring mode: edges, center, width, gap
- 100 ... 150 mm
- pulsed red laser diode
- analog and RS 485
- Touch Display, RS485
- connector M12 8 pin
- -20 ... 50 °C
- IP 67



Picture similar



Technical data

General data

Type	Measuring mode: edges, center, width, gap
Version	PosCon OXE7 - for very precise measurements and dark objects
Measuring range (width)	48 ... 72 mm
Measuring range (distance)	100 ... 150 mm
Measuring frequency	111 ... 370 Hz
Resolution	20 µm
Repeat accuracy	± 10 µm
Smallest detectable object width	0,7 mm
Smallest detectable gap	1,5 mm
Smallest detectable step	0,7 mm
Linearity error	± 50 ... 75 µm
Temperature drift	< 0,03 % measured value/K
Power on indication	LED green
Output indicator	LED yellow / LED red
Light source	Pulsed red laser diode
Wave length	656 nm
Laser class	1
Optical peak power max.	15 mW
Adjustment	Touch Display, RS485

Electrical data

Response time / release time	8,1 ... 18 ms
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Electrical data

Voltage supply range +Vs	15 ... 28 VDC
Current consumption max. (no load)	150 mA
Output circuit	Analog and RS 485
Output signal	4 ... 20 mA / 0 ... 10 VDC
Switching output	Push-pull
Output function	Out 1 / Alarm
Output current	< 100 mA
Baud rate	115200, adjustable
Reverse polarity protection	Yes, Vs to GND
Short circuit protection	Yes

Mechanical data

Width / diameter	26 mm
Height / length	74 mm
Depth	55 mm
Type	Rectangular, front view
Housing material	Aluminum
Front (optics)	Glass
Connection types	Connector M12 8 pin
Weight	130 g

Ambient conditions

Ambient light immunity	< 35 kLux
Operating temperature	-20 ... +50 °C
Protection class	IP 67

Technical data

Ambient conditions

Storage temperature	-25 ... +75 °C
Vibration (sinusoidal)	IEC 60068-2-6:2008 1.5 mm p-p at f = 10 - 57 Hz, 10 cycles per axis 10 g at f = 58 - 2000 Hz, 10 cycles per axis

Ambient conditions

Shock (semi-sinusoidal)	IEC 60068-2-27:2009 50 g / 11 ms resp. 100 g / 6 ms, 10 jolts per axis and direction 100 g / 2 ms, 5000 jolts per axis and direction
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Remarks

- Conditions for the following characteristics:
- Measuring frequency 1) 2)
- Resolution 1) 3)
- Repeat accuracy 1) 3)
- Linearity error 1) 4)
- Response time / release time 1) 2) 3)
- 1) Measurement with Baumer standardized measuring equipment and targets. Measuring on 90% reflectivity (white)
- 2) Depending on the size of the measuring field and OBJECT light/dark mode
- 3) Without filtering / no averaging
- 4) Measured symmetrically around the reference point with 50% of the measuring field

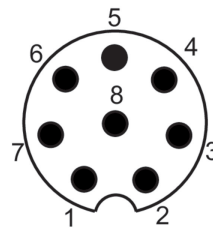
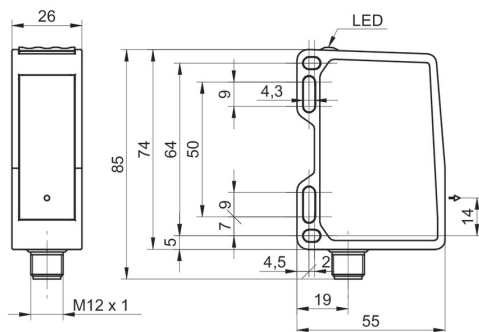
Laser warning

CLASS 1 LASER PRODUCT

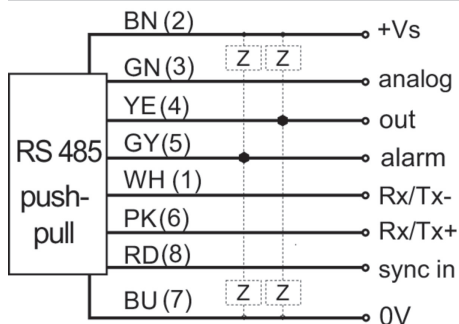
IEC 60825-1/2014
Complies with 21 CFR 1040.10 and 1040.11 except for conformance with IEC 60825-1 Ed. 3., as described in Laser Notice No. 56, dated May 8, 2019

Pin assignment

Dimension drawing



Connection diagram



Alignment of the laserline

