

**Overview**

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**Technical data**

**General data**

Type	Measuring mode: center, diameter, limits left, right and top for round objects
Version	PosCon OXC7
Measuring range (width)	75 ... 125 mm
Measuring range (distance)	150 ... 250 mm
Measuring frequency	450 Hz
Resolution	10 ... 40 µm
Repeat accuracy	10 ... 20 µm
Linearity error	± 35 ... 60 µm
Temperature drift	± 0,05 % Sde/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.	3 mW
Adjustment	Touch Display, RS485
Object type	Round
Object diameter min.	30 mm
Object diameter max.	130 mm

**Electrical data**

Response time / release time	7 ms
Voltage supply range +Vs	15 ... 28 VDC

**Electrical data**

Current consumption max. (no load)	120 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	< 25 kLux
Operating temperature	-10 ... +50 °C
Protection class	IP 67
Storage temperature	-25 ... +75 °C

**Technical data**

**Ambient conditions**

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
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**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) 6)
- Repeat accuracy 1) 3) 4) 6)
- Linearity error 1) 3) 5) 6)
- Temperature drift 1)
- Response time / release time 1) 2)
- 1) Measurement with Baumer standardized measuring equipment and targets. Measuring on 90% reflectivity (white)
- 2) Depending on size of Field of view. Maximum performance at min. measuring field size
- 3) Depending on object size. Min. value: object diameter 90 mm; Max. value: object diameter 30 mm
- 4) Measurement with active filtering
- 5) Positioning of the center of the object: Measuring field X: -5 ... + 5 mm; Measuring field Z: 206 ... 226 mm
- 6) Measurement with measuring type X-Center

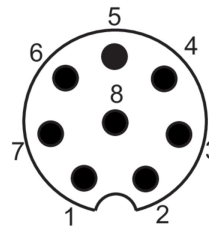
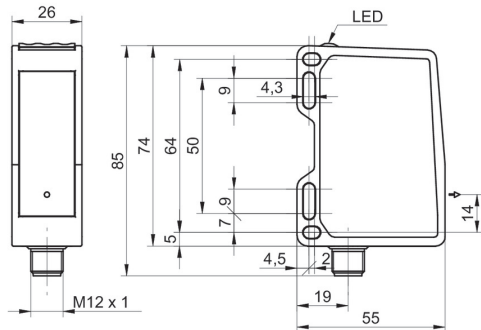
**Laser warning**



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

**Pin assignment**

**Dimension drawing**



**Connection diagram**

