OXE7.E25T-LB3E.SIMD.7AI

Edge-/heigt sensors Article number: 11111452

Overview

- measuring mode: edges, center, width, gap
- 150 ... 250 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	
Туре	Measuring mode: edges, center, width, gap
Version	PosCon OXE7
Measuring range (width)	75 125 mm
Measuring range (distance)	150 250 mm
Measuring frequency	125 500 Hz
Resolution	30 50 μm
Repeat accuracy	± 10 μm
Smallest detectable object width	1,5 mm
Smallest detectable gap	2 mm
Smallest detectable step	2 mm
Linearity error	± 80 120 μm
Temperature drift	< 0,05 % 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.	3 mW
Adjustment	Touch Display, RS485
Electrical data	
Response time / release time	4 16 ms
Voltage supply range +Vs	15 28 VDC

Electrical data	
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
Туре	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	-20 +50 °C
Protection class	IP 67
Storage temperature	-25 +75 °C

OXE7.E25T-LB3E.SIMD.7AI

Edge-/heigt sensors Article number: 11111452

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

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 dir-

ection

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

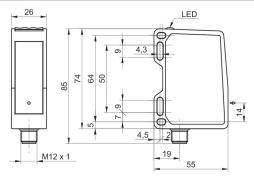
CLASS 1 LASER PRODUCT

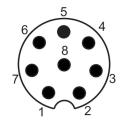
IEC 60825-1/2014

Complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to laser notice No. 50, dated June 24, 2007

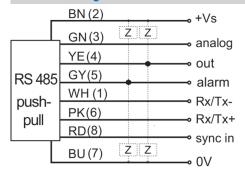
Pin assignment

Dimension drawing

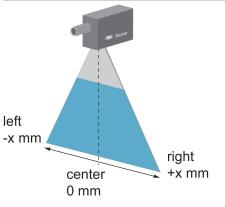




Connection diagram



Alignment of the laserline



2020-12-07