

Overview

- 100 ... 150 mm
- pulsed red laser diode
- analog and RS 485
- Touch Display, RS485
- connector M12 8 pin
- -10 ... 50 °C
- IP 67



Picture similar



Technical data

General data

Type	Distance measuring
Version	OM70 multi-spot
Measuring distance Sd	100 ... 150 mm
Measuring range (width)	48 ... 72 mm
Adjustment	Touch Display, RS485
Power on indication	LED green
Resolution	2 ... 4 µm
Linearity error	± 30 ... 90 µm 1) 2) 4)
Beam type	Multi-spot
Temperature drift	± 0,04 % Sde/K 1) 2) 4)

Light Source

Light source	Pulsed red laser diode
Wave length	656 nm
Laser class	1

Electrical data

Response time / release time	3,5 ms 2) 3)
Measuring frequency	570 Hz 2) 3)
Voltage supply range +Vs	15 ... 28 VDC
Current consumption max. (no load)	120 mA
Output circuit	Analog and RS 485
Output signal	4 ... 20 mA / 0 ... 10 VDC
Output current	< 100 mA

Electrical data

Short circuit protection	Yes
Reverse polarity protection	Yes, Vs to GND

Communication interface

Interface	RS485
Baud rate	115200, adjustable

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

Ambient conditions

Ambient light immunity	< 35 kLux
Operating temperature	-10 ... +50 °C
Protection class	IP 67
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

Technical data

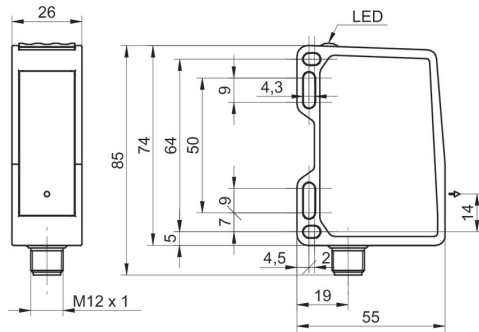
Ambient conditions

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

Remarks

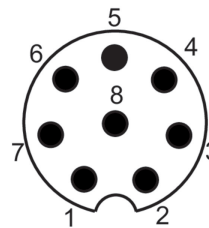
- 1) Measurement with Baumer standardized measuring equipment and targets depending on measuring distance Sd
- 2) Measurement on 90% remission (white)
- 3) Measurement with reduced Field of View (start of measurement range 140 mm, end of measurement range 150 mm)
- 4) Measurement with measuring type average
- 5) Measurement with filtering

Dimension drawing



- * emitter axis

Pin assignment



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

Connection diagram

