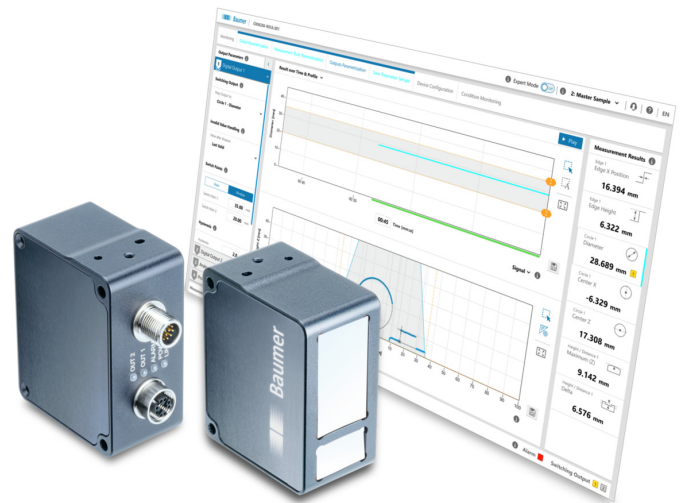


Overview

- Blue Laser Line for speckle reduced imaging
- Output of calibrated 2D point cloud for further external PC processing
- Sensor parameterization via intuitive web interface
- Free SDK with example code
- Encoder & Trigger input



Picture similar

Technical data

General data

Measurement range MR	25 mm
Clearance distance	60 mm
Working range (Sdc ... Sde)	60 ... 85 mm
Reference distance	72.5 mm
Field of view (@Sdc ... Sde)	20 mm ... 28 mm
Resolution X (@Sdc ... Sde)	30 ... 40 µm
Profiles per second	100 ... 400 Hz
Profile points	700 pixel
Resolution Z (@Sdc ... Sde)	5 µm
Repeat accuracy Z	2 µm
Linearity deviation Z	± 0.1 % MR
Temperature drift	± 0.04 %Sde/K

Light Source

Laser class	2
Laser wavelength	Blue (405 nm)
Light point shape (at reference distance)	Line Length (x) 28 mm Line Width (z) < 50 µm

Interfaces and connectors

Software / parametrisation	Integrated Webserver for parametrisation
Interfaces / output circuit	Fast Ethernet 100-MBit/s
Protocols	UDP, SDK (C#, C++, .NET, Python)

Electrical data

Voltage supply range +Vs	18 ... 30 VDC
Switching outputs	1 x Alarm Output (Push Pull)
Power supply	typ. 2.4W (100 mA max at 24 V) IEEE 802.3af Power over Ethernet (PoE)
Electrical connection	M12 12-pol, A-coded, male
Ethernet connection	M12 8-pol, X-coded, female

Electrical data

Encoder input specifications	4 Inputs Differential: A/B HTL / TTL available High Level: 2.5 V ... +Ub / PoE 2.5 ... 24 V Low Level: < 1.5 V Max. Frequency 30kHz
Trigger input specification	High Level: 8 V ... +Ub / PoE 8 ... 24 V Low Level: < 2.5 V

Mechanical data

Material	Case: Aluminium, Front Cover: Glass
Dimensions (W x H x D)	36 mm x 74 mm x 60 mm
Width	36 mm
Height	74 mm
Depth	60 mm
Weight	270 g

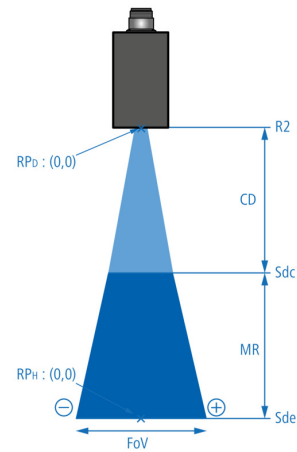
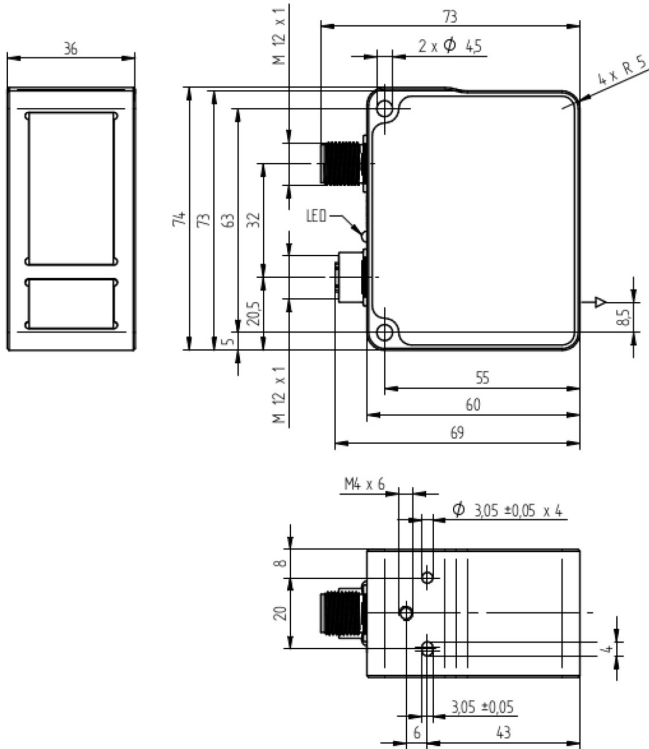
Environmental conditions

Ambient temperature	0 ... + 45 °C
Storage temperature	- 10 ... + 60 °C
Ambient humidity	20 ... 85 %
Protection class (IEC 60529)	IP65
Vibration (sinusoidal)	1 mm p-p at f = 10 - 55 Hz, duration 5 min per axis 30 min endurance at f = 55 Hz per axis IEC 60068-2-6:2008
Shock (semi-sinusoidal)	30 g / 11 ms, 6 jolts per axis and direction IEC 60068-2-27:2009
Ambient light immunity	< 25 kLux

Conformity

Conformity	CE UL
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Technical drawings



Pin assignment

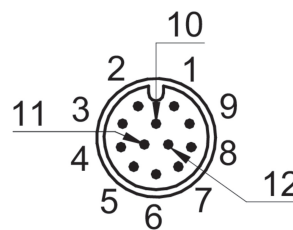
Electrical connection

M12 12-pol, A-coded, male

1	Power(18..30VDC)
2	GND
3	Encoder A
4	DNC
5	Encoder A neg.
6	OUT1
7	Encoder B
8	DNC
9	IN1 (sync in)
10	Encoder B neg.
11	Power(18..30VDC)
12	GND

Pin assignment

Electrical connection



Ethernet connection

M12 8-pol, X-coded, female

Pin assignment

Ethernet connection

1	RX +
2	RX -
3	TX +
4	TX -
5	- VDC
6	- VDC
7	+ VDC
8	+ VDC

