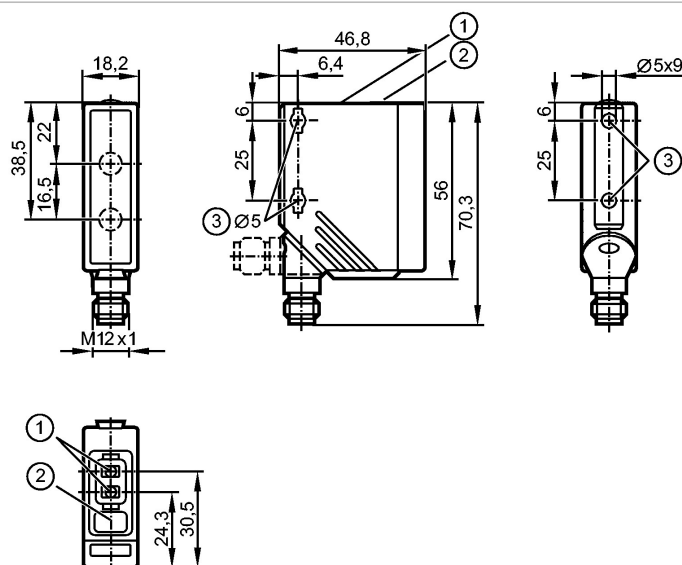




1: setting pushbuttons

2: 3-digit alphanumeric display

3: When a M5 mounting screw is used, the max. tightening torque is 2 Nm.



Product characteristics

Photoelectric distance sensor

Connector

Background suppression

Visible laser light, CLASS 2 LASER PRODUCT

3-digit alphanumeric display [cm]

adjustable

Measuring range 0.03...2 m

Background suppression ...20 m

Electrical data

Electrical design	DC PNP
Operating voltage [V]	10...30 DC; "supply class 2" to cULus.
Current consumption [mA]	75 (24 V)
Life expectancy typ. [h]	50000
Type of light	Red light 650 nm
Protection class	III
Reverse polarity protection	yes

Outputs

Output function	2 switching outputs normally open / closed complementary
Current rating [mA]	2 x 100
Short-circuit protection	pulsed
Overload protection	yes
Switching frequency [Hz]	11

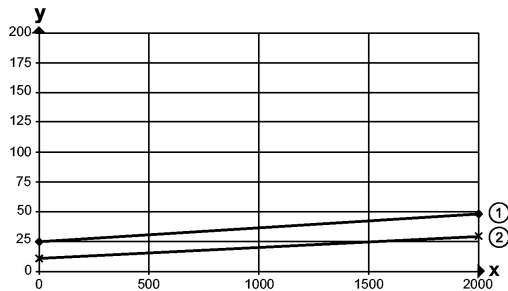
Range

Background suppression	...20 m
Light spot diameter [mm]	< 5 (Range 2 m)
Hysteresis [%]	< 2.5; black (6 % remission) at max. range

Hysteresis graph

x: distance in [mm]

y: Hysteresis in [mm]



1 = background black (6 % remission)

2 = background white (90 % remission)

Measuring / setting range

Measuring range	[m]	0.03...2
Sampling rate	[Hz]	33

Interfaces

IO-Link device	
Transfer type	COM2 (38.4 kBaud)
IO-Link revision	1.1
SDCI standard	IEC 61131-9
IO-Link device ID	372d / 00 01 74h
Profiles	Smart Sensor: Sensor Identification; Binary Data Channel; Process Value; Sensor Diagnosis
SIO mode	yes
Process data analogue	1
Process data binary	1
Min. process cycle time	[ms] 6.6

Environment

Immunity to extraneous light	[klx] 10; on the object
Ambient temperature	[°C] -25...60, at ta < -10 °C warm-up is necessary, laser is off
Protection	IP 65 / IP 67

Tests / approvals

EMC	EN 60947-5-2
MTTF	[Years] 151

Mechanical data

Housing materials	housing: PA; bezel: high-grade stainless steel; operator interface: TPU; lens: PMMA
Weight	[kg] 0.075

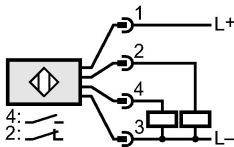
Displays / operating elements

Display	Switching status LED yellow switching output pin 4 Operation LED green Display 3-digit alphanumeric display
Display unit	cm

Electrical connection

Connection	M12 connector
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Wiring



4: OUT / IO-Link

Remarks

Remarks	Warning: laser light Power <= 4.0 mW wave length 650 nm Pulse 1.3 ns Do not stare into beam Avoid contact with laser light CLASS 2 LASER PRODUCT EN 60825-1:2007-10
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Pack quantity	[piece]	1
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Other data

Accuracy
- extraneous light on the object max.: 10 klx

distance	Accuracy	
	black (6 % remission)	white (90 % remission)
0 mm	± 15 mm	± 15 mm
500 mm	± 15 mm	± 15 mm
1000 mm	± 15 mm	± 15 mm
1500 mm	± 20 mm	± 20 mm
2000 mm	± 30 mm	± 20 mm