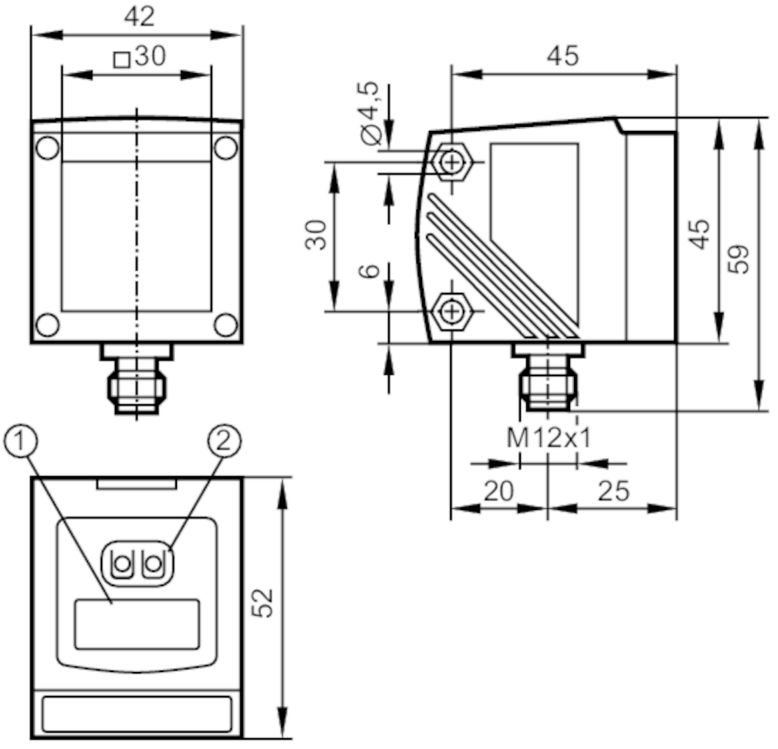
O1D101

Photoelectric distance sensor

O1DLFPKG/IO-LINK



1 alphanumeric display 4-digit
2 programming buttons

Product characteristics		
Laser protection class		2
Application		
Special feature		Background suppression
Electrical data		
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 150
Protection class		III
Reverse polarity protection		yes
Typ. lifetime	[h]	50000
Inputs / outputs		
Number of inputs and outputs		Number of digital outputs: 1
Outputs		
Total number of outputs		1
Electrical design		PNP
Number of digital outputs		1
Output function		normally open / normally closed; (programmable)
Max. current load per output	[mA]	200
Short-circuit protection		yes

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Type of short-circuit protection			pulsed
Overload protection			yes
Detection zone			
Max. light spot width	[mm]		15
Max. light spot height	[mm]		15
Light spot dimensions refer to			10 m
Background suppression available			yes
Background suppression	[m]		10...100
Measuring/setting range			
Measuring range	[m]		0.2...10; (white paper 200 x 200 mm 90% remission)
Sampling rate	[Hz]		5
Interfaces			
Communication interface			IO-Link
Transmission type			COM2 (38,4 kBaud)
IO-Link revision			1.1
SDCI standard			IEC 61131-9
Profiles			Smart Sensor: Sensor Identification; Binary Data Channel; Process Value; Sensor Diagnosis
SIO mode			yes
Required master port type			A
Process data analogue			2
Process data binary			1
Min. process cycle time	[ms]		6
Supported DeviceIDs		**Type of operation**	**DeviceID**
		default	807
Operating conditions			
Ambient temperature	[°C]		-10...60
Protection			IP 67
Tests / approvals			
Laser protection class			2
Notes on laser protection		Caution:	laser light
		Power:	<= 4,0 mW
		Wave length:	650 nm
		pulse:	1,3 ns
		Do not stare into beam.	
		Avoid exposure to the laser light.	
		laser class:	2
			EN / IEC60825-1:2007
			EN / IEC60825-1:2014
			Complies with 21 CFR 1040 except for deviations pursuant to Laser Notice No. 50, dated June 2007.
MTTF	[years]		106

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Mechanical data		
Weight	[g]	268.5
Dimensions	[mm]	59 x 42 x 52
Materials		housing: diecast zinc; front pane: glass; LED window: PC

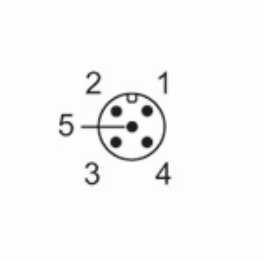
Displays / operating elements		
Display	switching status	LED, yellow
	operation	LED, green
	distance value, programming	alphanumeric display, 4-digit

Accessories	
Accessories (optional)	Protective cover, E21133

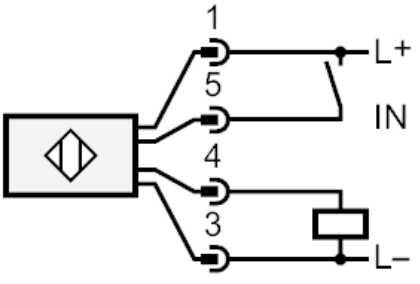
Remarks	
Remarks	operating voltage "supply class 2" according to cULus
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A



Connection



4	OUT1 switching output or IO-Link
5	Laser On/ Off