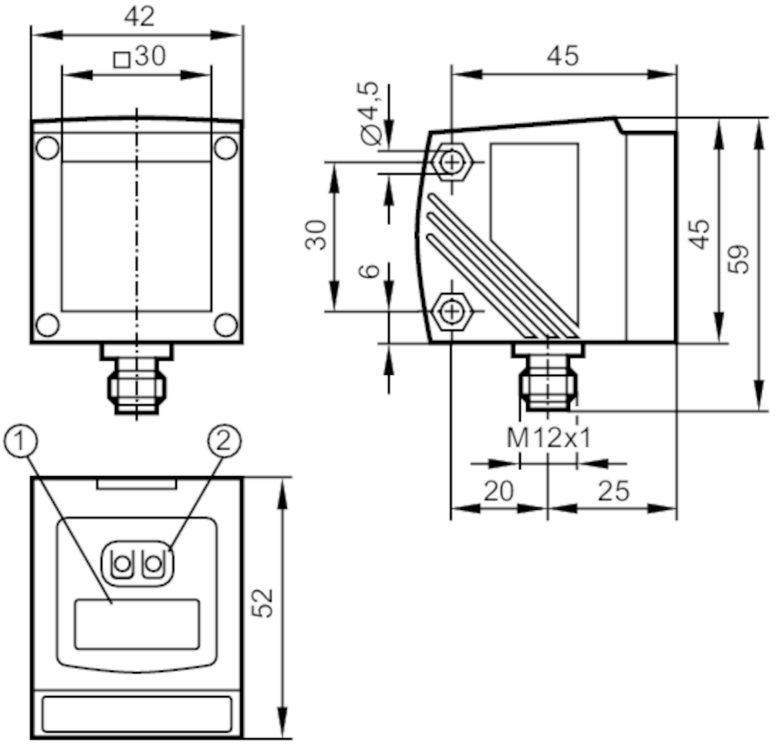
O1D101

Photoelectric distance sensor

O1DLFPKG/IO-LINK



1 alphanumeric display 4-digit
2 Programming buttons

Product characteristics		
Laser protection class		2
Application		
System		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 / closed; (programmable)
Max. current load per output	[mA]	200
Short-circuit protection		yes

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Type of short-circuit protection		yes (non-latching)	
Overload protection		yes	
Monitoring range			
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 class		A	
Process data analog		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
Material		housing: diecast zinc; front lens: glass; LED window: PC

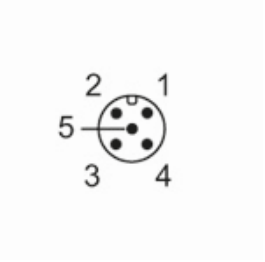
Displays / operating elements		
Display	Switching status	LED, yellow
	Power	LED, green
	Distance, programming	alphanumeric display, 4-digit

Accessories	
Accessories (optional)	Protective cover, E21133

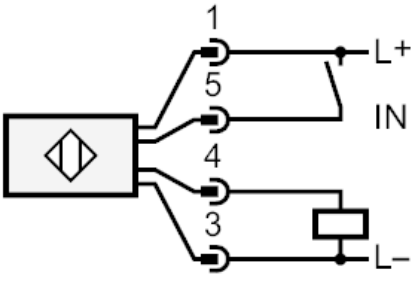
Remarks	
Remarks	cULus - Class 2 source required
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A



Connection



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