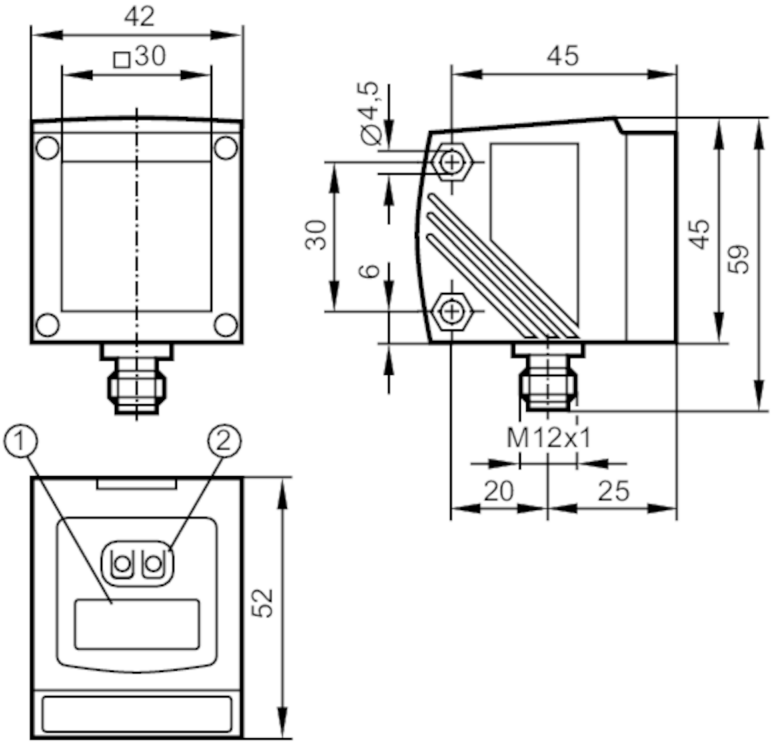
O1D104

Photoelectric distance sensor

O1DLFNKG/IO-LINK



1 alphanumeric display 4-digit
2 programming buttons

Product characteristics		
Laser protection class		2
Housing		rectangular
Application		
Special feature		Background suppression
Electrical data		
Operating voltage	[V]	18...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		NPN
Number of digital outputs		1
Output function		normally open / normally closed; (programmable)
Max. current load per output	[mA]	200

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Short-circuit protection		yes	
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	
Profiles		Smart Sensor - SSP 0	Generic Profiled Sensor
		Function	Device identification
		Function	Process data variable
		Function	Device diagnosis
		Function	Teach channel
SIO mode		yes	
Required master port type		A	
Process data analogue		2	
Process data binary		1	
Min. process cycle time	[ms]	5	
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 1040.10 except for conformance with IEC 60825-1 Ed. 3, as

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			described in Laser Notice No. 56, dated May 8, 2019.
MTTF	[years]	106	

Mechanical data

Weight	[g]	285.5	
Housing		rectangular	
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

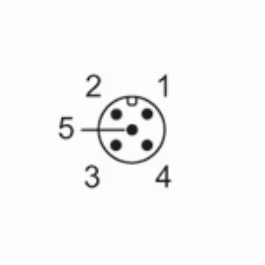
Accessories (optional)	Protective cover, E21133

Remarks

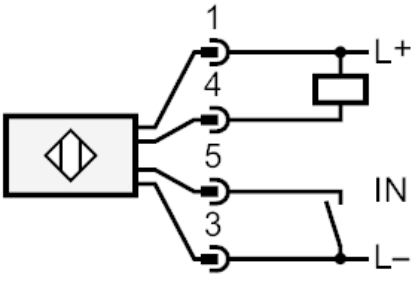
Remarks	operating voltage "supply class 2" according to cULus
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A



Connection



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