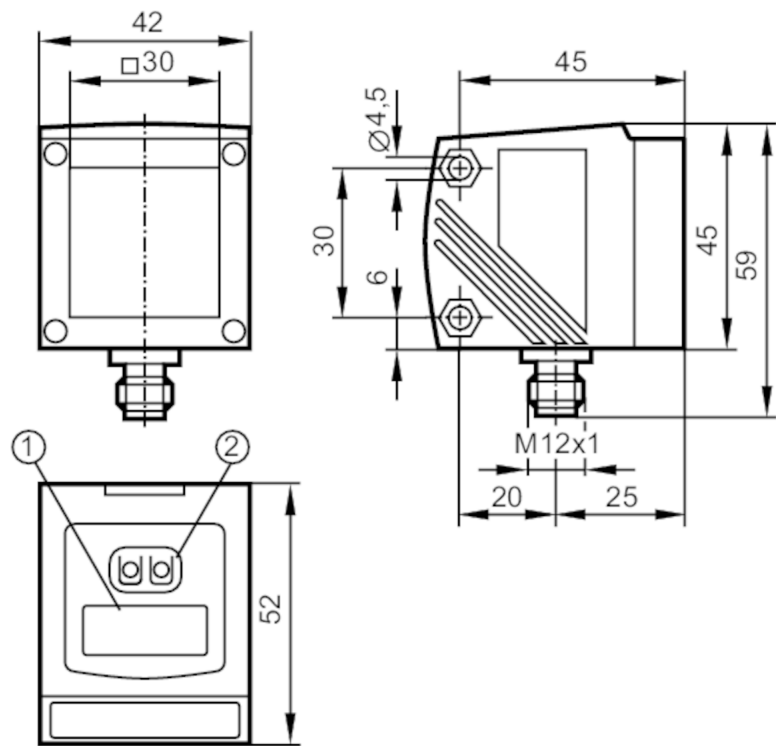


O1D121

Laser distance sensor

O1DLF3KG



- 1 alphanumeric display 4-digit
- 2 Programming buttons



Product characteristics		
Laser protection class		2
Housing		rectangular
Electrical data		
Operating voltage	[V]	23...25 DC; (cULus - Class 2 source required)
Current consumption	[mA]	< 150; (250: <5 °C)
Protection class		III
Reverse polarity protection		yes
Typ. lifetime	[h]	50000
Inputs / outputs		
Number of inputs and outputs		Number of digital outputs: 2; Number of analog outputs: 1
Outputs		
Total number of outputs		2
Electrical design		PNP
Number of digital outputs		2
Output function		normally open / closed; (programmable)
Max. current load per output	[mA]	200
Number of analog outputs		1
Analog current output	[mA]	4...20; (IEC 61131-2)

O1D121



Laser distance sensor

O1DLF3KG

Max. load	[Ω]	250
Analog voltage output	[V]	0...10; (IEC 61131-2)
Min. load resistance	[Ω]	5000
Short-circuit protection		yes
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	[m]	< 19
Measuring/setting range		
Measuring range	[m]	0.2...10; (white paper 200 x 200 mm 90 % remission)
Sampling rate	[Hz]	1...50
Operating conditions		
Ambient temperature	[°C]	-26...60
Protection		IP 67
Tests / approvals		
EMC	EN 60947-5-2	
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
UL approval		EN / IEC60825-1:2014
		Complies with 21 CFR 1040.10 except for conformance with IEC 60825-1 Ed. 3, as described in Laser Notice No. 56, dated May 8, 2019.
	Ta	-10...60 °C
	Enclosure type	Type 1
	voltage supply	Class 2
	File number UL	E174191
Mechanical data		
Weight	[g]	249.2
Housing		rectangular
Dimensions	[mm]	59 x 42 x 52
Material		housing: diecast zinc; front lens: glass; LED window: PC
Lens alignment		Side sensing

O1D121



Laser distance sensor

O1DLF3KG

Displays / operating elements

Display	Switching status	2 x LED, yellow
	Power	LED, green
	Distance, programming	alphanumeric display, 4-digit
Operating elements		Electronic lock, activated

Accessories

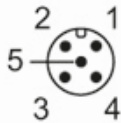
Accessories (optional)	Protective cover, E21133
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Remarks

Remarks	Temperature-controlled lens heating
Pack quantity	1 pcs.

Electrical connection - plug

Connector: 1 x M12; coding: A



Connection

