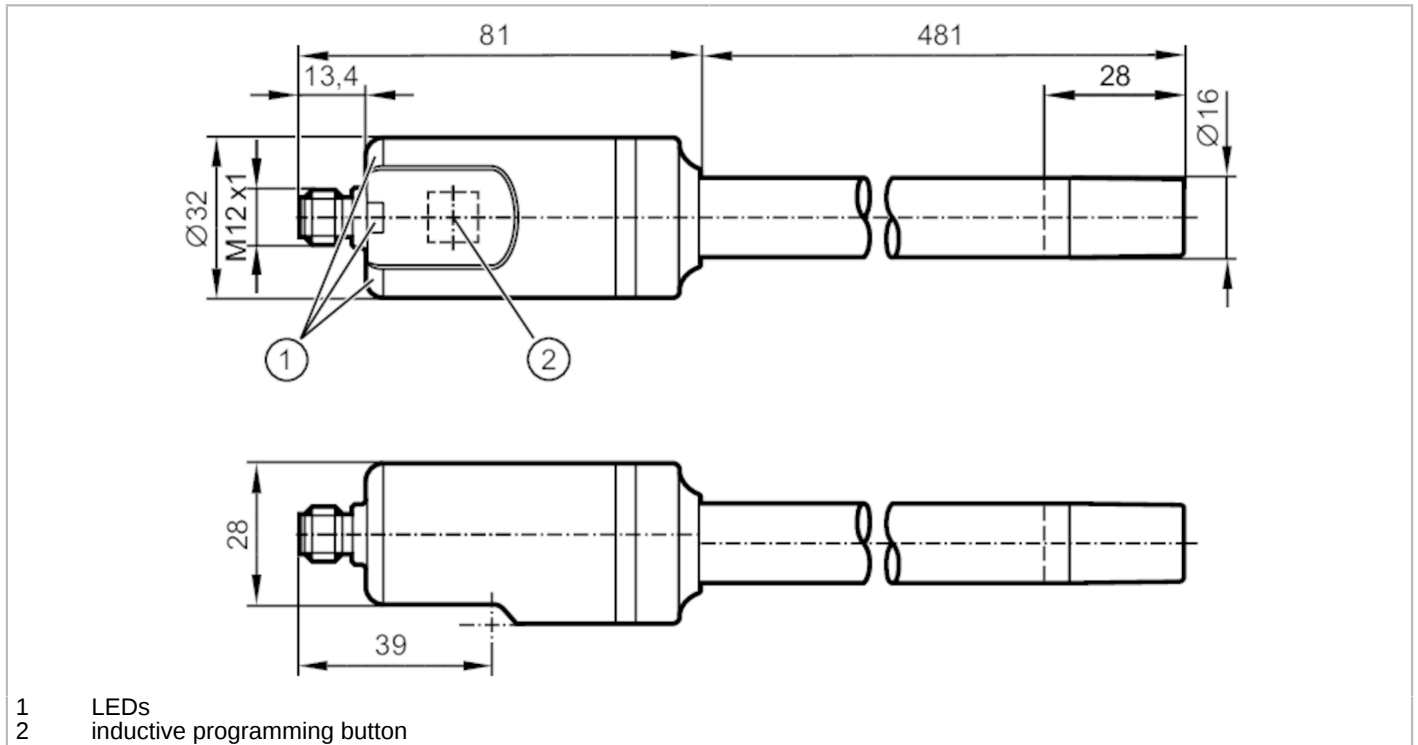


LI5133



Sensor for point level detection

LI0481--K-00KQPKG/US



- 1 LEDs
- 2 inductive programming button



Product characteristics

Number of inputs and outputs	Number of digital outputs: 2
Factory setting	hydrous media
Probe length L [mm]	481

Application

Special feature	Gold-plated contacts
Media	Liquids
Dielectric constant of the medium	> 1,8
Recommended media	water; hydrous media; oils; oil-based media
Cannot be used for	See operating instructions, chapter "Intended use".
Medium temperature [°C]	-25...85
Pressure rating	0.5 bar 0.05 MPa
Vacuum resistance [mbar]	-500

Electrical data

Operating voltage [V]	9.6...35 DC; (IO-Link: 18...30 DC)
Current consumption [mA]	< 15
Protection class	III
Reverse polarity protection	yes
Power-on delay time [s]	< 1
Measuring principle	capacitive

Inputs / outputs

Number of inputs and outputs	Number of digital outputs: 2
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LI5133



Sensor for point level detection

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Outputs		
Total number of outputs		2
Output signal		switching signal; IO-Link
Electrical design		PNP/NPN
Number of digital outputs		2
Output function		normally open / normally closed; (parameterisable)
Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	100
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes
Measuring/setting range		
Factory setting		hydrous media
Probe length L	[mm]	481
Active range A	[mm]	28
Temperature measurement		
Measuring range	[°C]	-25...85
Accuracy / deviations		
Temperature measurement		
Accuracy	[K]	1,5
Resolution	[K]	0.1
Dynamic response T09	[s]	240
Response times		
Response time	[s]	< 0.3
Interfaces		
Communication interface		IO-Link
Transmission type		COM2 (38,4 kBaud)
IO-Link revision		1.1
SDCI standard		IEC 61131-9
Profiles	Common - I&D	Identification and Diagnosis
	Function	Measurement data, standard resolution
SIO mode		yes
Required master port type		A
Process data analogue		5
Process data binary		2
Min. process cycle time	[ms]	4.5
Supported DeviceIDs	Type of operation	DeviceID
	default	1053
Operating conditions		
Ambient temperature	[°C]	-25...85
Storage temperature	[°C]	-25...85

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Protection	IP 68; IP 69K; (7 days / 3 m water depth / 0.3 bar: IP 68)
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Tests / approvals

EMC	DIN EN 61000-6-2	
	DIN EN 61000-6-3	in a closed metal tank
	DIN EN 61000-6-4	in plastic or open metal tanks
Shock resistance	DIN EN 60068-2-27	12 g (11 ms)
Vibration resistance	DIN EN 60068-2-6	5 g (10...2000 Hz)
MTTF [years]		433
UL approval	UL approval no.	H013
	File number UL	E174191

Mechanical data

Weight [g]	370.35
Materials	PP reinforced fibre
Materials (wetted parts)	PP
Probe diameter [mm]	16

Displays / operating elements

Display	operation	LED, green
	switching status	LED, yellow
Operating elements	inductive programming button	

Remarks

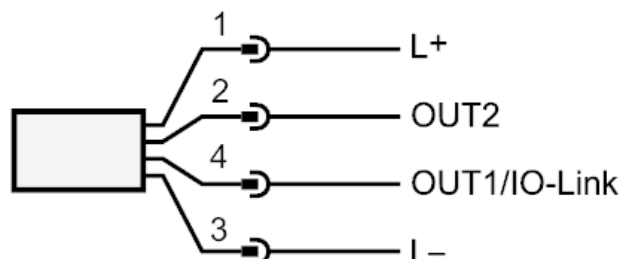
Pack quantity	1 pcs.
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Electrical connection

Connector: 1 x M12; coding: A; Contacts: gold-plated



Connection



OUT1: switching output
OUT2: switching output