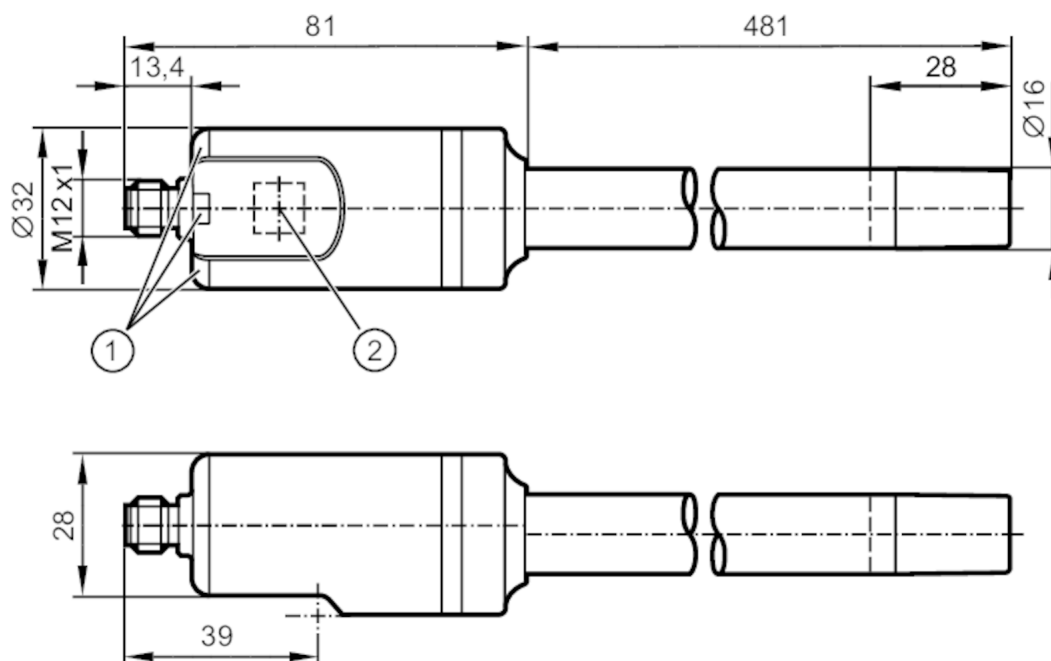




Sensor for point level detection

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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Sensor for point level detection

LI0481--K-00KQPKG/US

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	
Unterstützte Masterportklasse	A	
Transmission type	COM2 (38,4 kBaud)	
IO-Link revision	1.1	
SDCI standard	IEC 61131-9	
Profiles	Smart Sensor ED2: Identification and Diagnosis (0x4000), Measurement Data Channel (0x800A)	
SIO mode	yes	
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	

LI5133



Sensor for point level detection

LI0481--K-00KQPKG/US

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

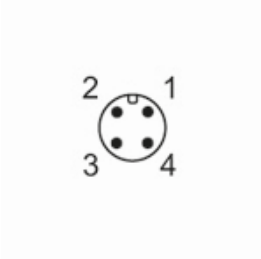
Display	operation	LED, green
	switching status	LED, yellow
Operating elements	inductive programming button	

Remarks

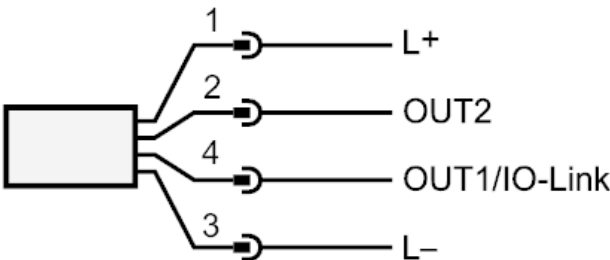
Pack quantity	1 pcs.
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Electrical connection

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



Connection



OUT1: switching output
OUT2: switching output