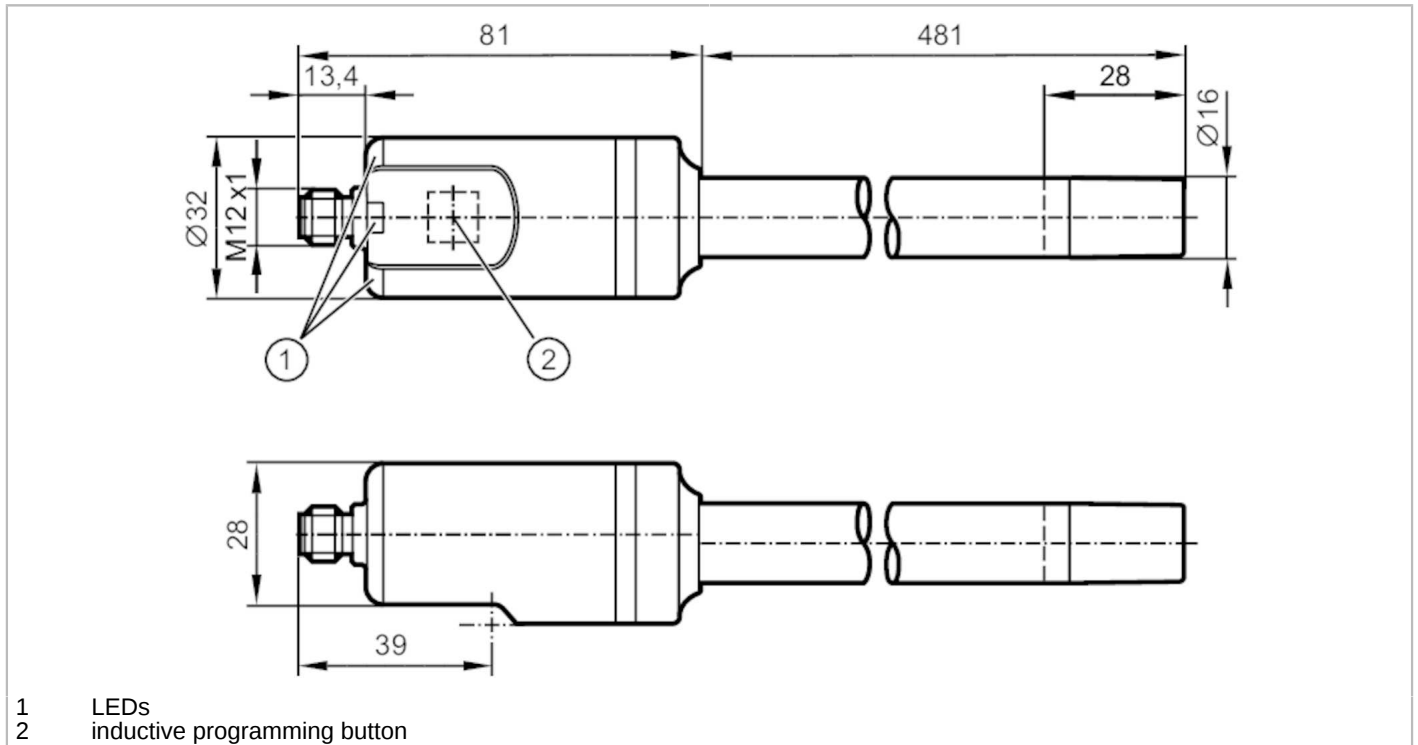


LI2133



Sensor for point level detection

LI0481--K-00KQPKG/US/WHG



- 1 LEDs
- 2 inductive programming button



Product characteristics	
Number of inputs and outputs	Number of digital outputs: 2
Factory setting	oils; oil-based media
Probe length L [mm]	481
Application	
System	gold-plated contacts
Media	Liquids
Dielectric constant of the medium	> 1,8
Recommended media	water; water-based media; oils; oil-based media
Cannot be used for	See operating instructions, chapter "Intended use".
Medium temperature [°C]	-25...85; (Applications according to the German Federal Water Act (WHG) 0...85°C)
Pressure rating [bar]	0.5
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

LI2133



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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	OUT-OP	normally closed
	OUT2	normally open / closed; (configurable)
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		yes (non-latching)
Overload protection		yes
Measuring/setting range		
Factory setting		oils; oil-based 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
Reaction 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 analog		5
Process data binary		2
Min. process cycle time	[ms]	4.5
Supported DeviceIDs	Type of operation	DeviceID
	default	634
Operating conditions		
Ambient temperature	[°C]	-25...85

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Storage temperature [°C]	-25...85
Protection	IP 68; IP 69K; (7 days / 3 m water depth / 0.3 bar: IP 68)

Tests / approvals

Approval	WHG; General building authority approval; overflow prevention; leakage detection	
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	

Mechanical data

Weight [g]	408.6
Material	PP fiber-reinforced
Materials (wetted parts)	PP
Probe diameter [mm]	16

Displays / operating elements

Display	Power	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



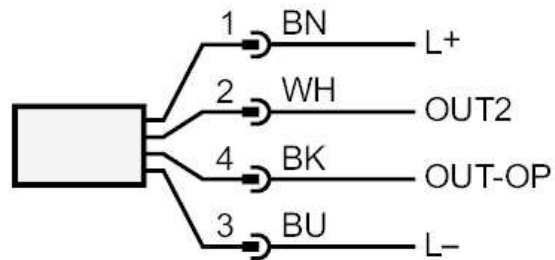
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Sensor for point level detection

LI0481--K-00KQPKG/US/WHG

Connection



OUT-OP : IO-Link
 Switching output overflow prevention to the German Federal Water Act (WHG)
 Switching output leakage detection to WHG (German Federal Water Act)

OUT2 : Switching output Level
 Switching output temperature