LI5141

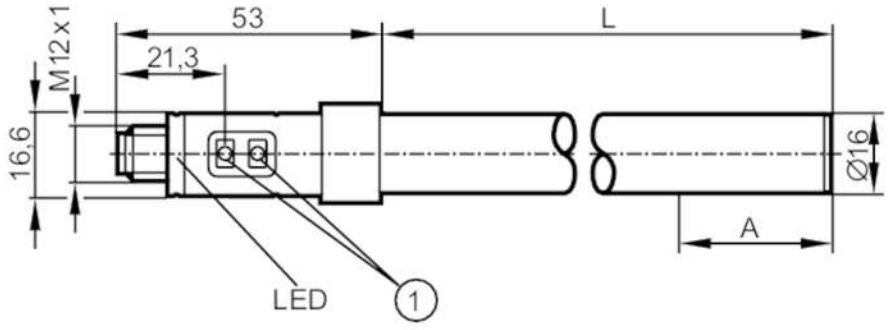
Sensor for point level detection

LI0132--K-00KNPKG/US

phase-out article

Alternative articles: LI5131

When selecting an alternative article and accessories please note that technical data may differ!



1 programming buttons

Product characteristics		
Number of inputs and outputs		Number of digital outputs: 1
Probe length L	[mm]	132
Application		
Special feature		Gold-plated contacts
Media		hydrous coolants; oils; water; media similar to water
Dielectric constant of the medium		> 1,8
Recommended media		hydrous coolants; oils; water; media similar to water
Cannot be used for		granulates; bulk material; acids; alkali
Tank pressure	[bar]	-0.5...0.5; (when mounting with mounting accessories: E43001 - E43007, E43019)
Oil		
Medium temperature	[°C]	0...65
Medium temperature short time	[°C]	0...80
Water		
Medium temperature	[°C]	0...35; (LI5141 + E43103: 0...65; For water and hydrous media with temperatures > 35 °C install the unit into a climatic tube.)
Electrical data		
Operating voltage	[V]	10...36 DC
Current consumption	[mA]	22; (24 V)
Protection class		III
Reverse polarity protection		yes
Measuring principle		capacitive
Inputs / outputs		
Number of inputs and outputs		Number of digital outputs: 1

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Outputs			
Total number of outputs		1	
Output signal		switching signal	
Electrical design		PNP	
Number of digital outputs		1	
Output function		normally open / normally closed; (parameterisable)	
Max. voltage drop switching output DC	[V]	2.5	
Permanent current rating of switching output DC	[mA]	200	
Short-circuit protection		yes	
Type of short-circuit protection		pulsed	
Overload protection		yes	
Measuring/setting range			
Probe length L	[mm]	132	
Active range A	[mm]	31	
Operating conditions			
Ambient temperature	[°C]	-25...80	
Storage temperature	[°C]	-25...80	
Protection		IP 65; IP 67	
Tests / approvals			
EMC		EN 61000-6-2	: 2005 + Corr. 2005
		EN 61000-6-4	: 2007
Shock resistance		DIN EN 60068-2-29	12 g (11 ms)
Vibration resistance		DIN EN 60068-2-6	5 g (10...2000 Hz)
MTTF	[years]	608	
Mechanical data			
Weight	[g]	136	
Dimensions	[mm]	Ø 16	
Materials		PP-GF30; TPE-U	
Materials (wetted parts)		PP	
Displays / operating elements			
Display		operation	LED, green
		switching status	LED, yellow
Remarks			
Pack quantity		1 pcs.	

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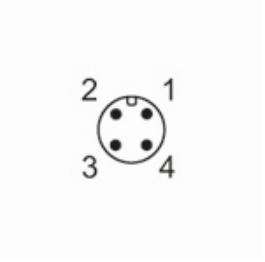
Electrical connection

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



Connection

