

LI5142



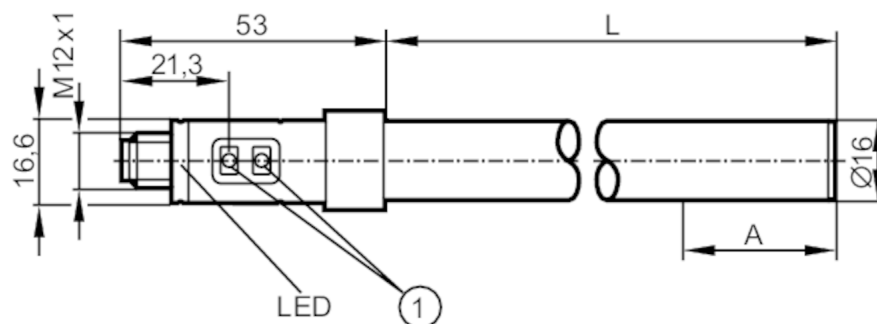
Sensor for point level detection

LI0273--K-00KNPKG/US

Article to be discontinued

Alternative articles: LI5132

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]	273

Application

System	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; (LI5142 + E43100: 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 / closed; (configurable)	
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	yes (non-latching)	
Overload protection	yes	
Measuring/setting range		
Probe length L [mm]	273	
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]	156.4	
Dimensions [mm]	Ø 16	
Material	PP-GF30; TPE-U	
Materials (wetted parts)	PP	
Displays / operating elements		
Display	Power	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

