

LI5142



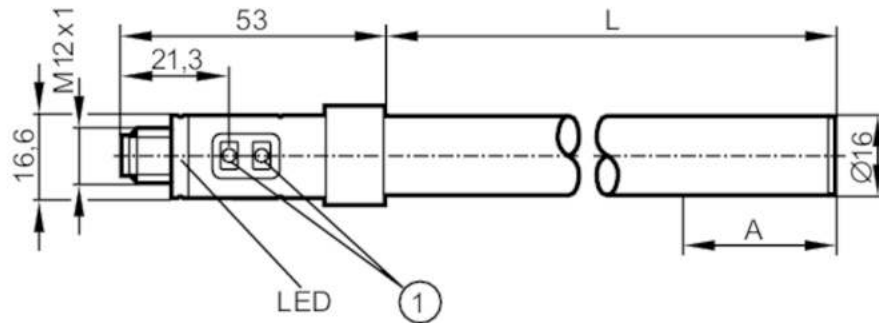
Sensor for point level detection

LI0273--K-00KNPKG/US

phase-out article

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

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; (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 / 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]	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
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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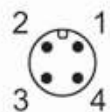


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Electrical connection

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



Connection

