

LI5142



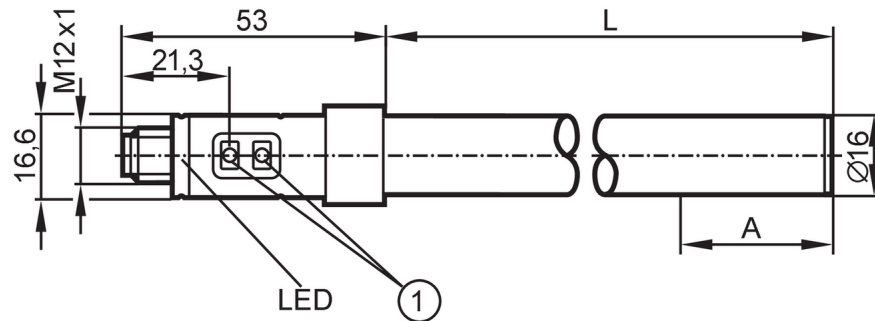
Sensor for point level detection

LI0273--K-00KNPKG/US

Article no longer available - archive entry

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	-0.5...0.5; (when mounting with mounting accessories: E43001 - E43007, E43019) bar 0.05; (when mounting with mounting accessories: E43001 - E43007, E43019) MPa

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
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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.

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

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Connection

