LI5142

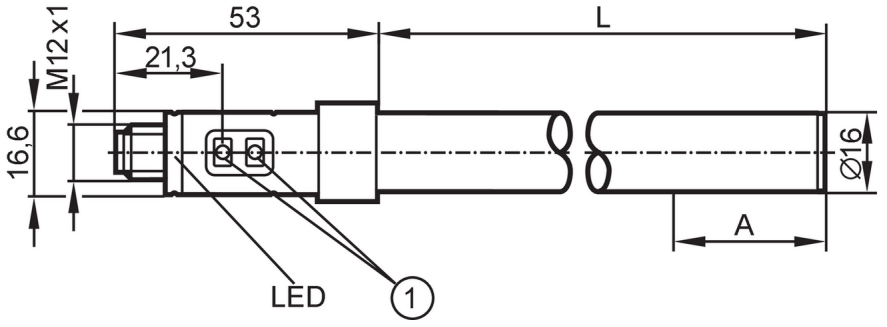
Sensor for point level detection

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	
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: 4, gold-plated



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Connection

