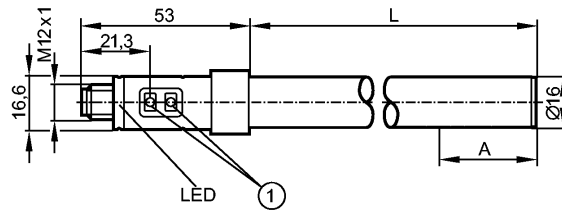


LI5142

LI0273--K-00KNPKG/US

Level sensors



1: Programming buttons



Product characteristics

Binary level sensor
Quick disconnect
gold-plated contacts
Probe length: L = 273 mm
1 switching output

Application

Application	Hydrous coolants, oils, water, media similar to water
Recommended media	Hydrous coolants, oils, water, media similar to water
Cannot be used for:	granulates and bulk materials, acids and alkalis, hygienic and electroplating applications
Dielectric constant medium	> 1.8
Medium temperature oil	
- Continuous [°C]	0...65
- Short time [°C]	0...80
Medium temperature water and hydrous media [°C]	0...35 (LI5142 + E43100: 0...65) **)

Electrical data

Electrical design	DC PNP
Operating voltage [V]	10...36 DC
Current consumption [mA]	22 (24 V)
Protection class	III
Reverse polarity protection	yes

Outputs

Output	1 switching output
Output function	normally open / closed programmable
Current rating [mA]	200
Voltage drop [V]	< 2.5
Short-circuit protection	yes (non-latching)
Overload protection	yes

Measuring / setting range

Probe length L [mm]	273
Active range A [mm]	31

Environment

Ambient temperature [°C]	-25...80
Maximum vessel pressure [bar]	+/- 0.5 (mounted with mounting accessories E43001 - E43007)
Protection	IP 65 / IP 67

Tests / approvals

LI5142

LI0273--K-00KNPKG/US

Level sensors

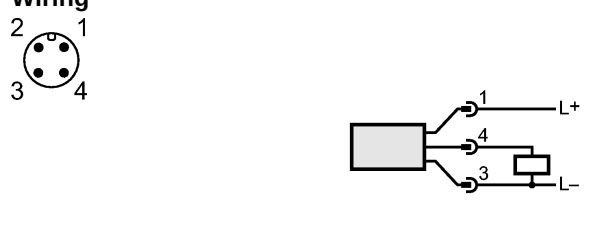
EMC	EN 61000-6-2 EN 61000-6-4	: 2005 + corr. 2005 : 2007
Shock resistance	DIN EN 60068-2-29:	12 g (11 ms)
Vibration resistance	DIN EN 60068-2-6	5 g (10...2000 Hz)
MTTF [Years]		608

Mechanical data		
Materials (wetted parts)		PP
Housing materials		PP GF30; TPE-U
Weight [kg]		0.178

Displays / operating elements		
Display	Power	LED green
	Switching status	LED yellow

Electrical connection	
Connection	M12 connector; gold-plated contacts

Wiring



Remarks	
Remarks	cULus - Class 2 source required **) for water and hydrous media with temperatures > 35 °C install the unit into a climatic tube (order no. E43100)

Pack quantity [piece]	1
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