

Магнитные погружные зонды LML-P

Технические характеристики

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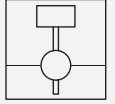
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Magnetic Immersion Probe for Limit Value Detection

LML-P



- Sensor for limit value detection in liquids
- Media contacting parts of plastic
- Mounting without removing the float (G5 and G6)



Function

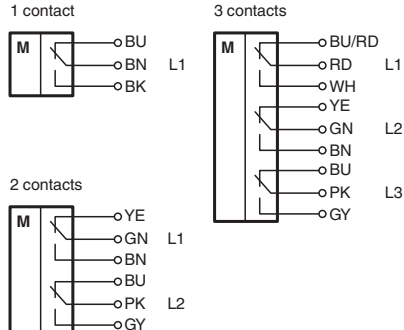
The device is a sensor for limit value detection in liquids.

A ring magnet integrated in the float activates the contacts inside the probe tube via its magnetic field. If the probe strays outside the range of the mechanical contact, it reverts to the output status.

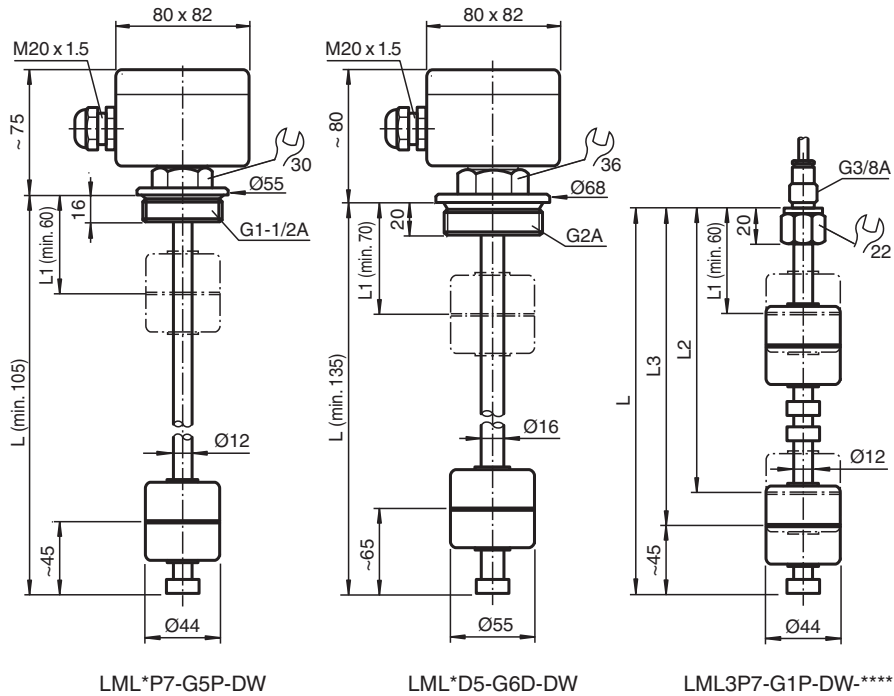
The skipping of switching points caused by abrupt level changes can be avoided using snap-on set collars on the probe tube. The same set collars are also used for latching contact operation.

Connection

Change-over contact



Dimensions



Technical Data

General specifications		
Function principle		ring magnet as switching element in the float, reed contact, change-over contact number of contacts: - version LML1: 1 contact - version LML2: 2 contacts - version LML3: 3 contacts
Series		LML-P
Supply		
Rated voltage	U _r	250 V AC/DC
Current consumption		1 A
Power consumption		40 VA
Output		
Connection		This device may be used with any sequential circuit, as long as the circuit can support the electrical circuit values of the switching elements.
Directive conformity		
Low voltage		
Directive 2014/35/EU		EN 61010-1:2010
Conformity		
Degree of protection		IEC 60529:2000
Operating conditions		
Installation conditions		
Switching point		position according to specification
Process conditions		
Process temperature		version PP: -10 ... 80 °C (14 ... 176 °F) version PVDF: -10 ... 100 °C (14 ... 212 °F)
Process pressure (static pressure)		≤ 3 bar (43.5 psi)
Density		≥ 0.8 g/cm³
Ambient conditions		
Ambient temperature		-20 ... 70 °C (-4 ... 158 °F)
Mechanical specifications		
Degree of protection		IP66 / IP68

Technical Data

Connection	version LML: terminal box, max. 9 terminals version LML-PVC1: connection cable 1 m (3.3 ft), 0.75 mm ²
Material	float, guide tube, process connection: - version PP: PP (Polypropylene) - version PVDF: PVDF (Polyvinylidenfluoride) connection cable: PVC terminal box: Polyester
Dimensions	float: - version PP: cylinder Ø44 mm x 44 mm - version PVDF: cylinder Ø55 mm x 70 mm guide tube: - version D: Ø12 mm, max. length 1000 mm - version P: Ø16 mm, max. length 1000 mm - other lengths on request terminal box: 80 x 82 x 55 mm
Process connection	thread G3/8A, G1-1/2A, G2A to DIN/ISO 228/1
General information	

Accessories

Designation	- LML-Z21 set collar, PP - LML-Z22 set collar, PVDF - LML-FD5 float, cylinder, Ø55 mm x 70 mm, PVDF - LML-FP7 float, cylinder, Ø44 mm x 44 mm, PP
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Type Code

This overview does not mark options which are mutually exclusive.

L	M	L	(1)	(2)	(3)	-	(4)	(5)	-	D	W	-	P	V	C	1	/	L
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LML	Device
LML	Magnetic immersion probe for limit value detection

(1)	Number of contacts
1	1 contact
2	2 contacts
3	3 contacts

(2)	Guide tube material
D	Plastic PVDF, with G6 process connection
P	Plastic PP, with G1 or G5 process connection

(3)	Float
5	Cylinder, Ø55 mm x 70 mm, plastic PVDF
7	Cylinder, Ø44 mm x 44 mm, plastic PP

(4)	Process connection
G1	Thread G3/8, DIN/ISO 228/1, with PVC cable, 1 m
G5	Thread G1-1/2A, DIN/ISO 228/1
G6	Thread G2A, DIN/ISO 228/1

(5)	Process connection material
D	Plastic PVDF
P	Plastic PP

DW	Electrical output
DW	Change-over contact, directly

PVC1	Additional options
PVC1	PVC cable, 1 m, for G1 process connection

L	Guide tube length
Length	Specified length, max. 1000 mm, other lengths on request Specify the location of the contacts when placing your order. The tube length L will be defined corresponding to the lowest contact location. - Minimum distance between L1 and L2: 20 mm If you are using 3 contacts, observe the following distances: - Minimum distance between L1 and L2: 80 mm (for plastic PVDF: 100 mm) - Minimum distance between L2 and L3: 20 mm

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