

**Features**

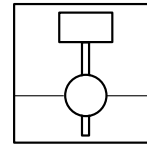
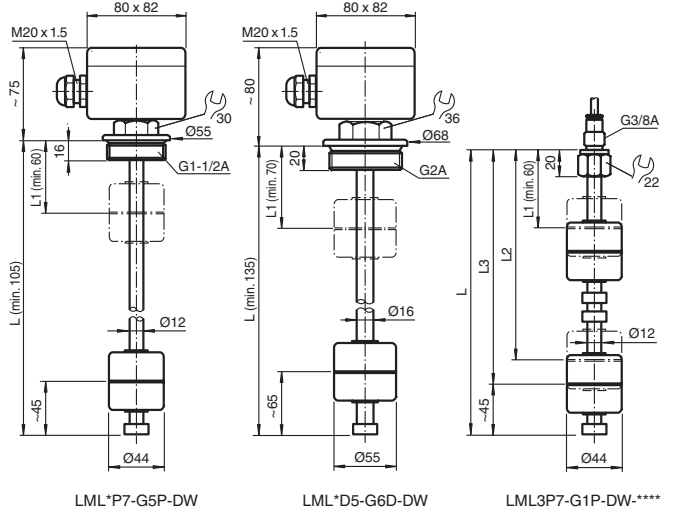
- Sensor for limit value detection in liquids
- Media contacting parts of plastic
- Mounting without removing the float (G5 and G6)

**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.

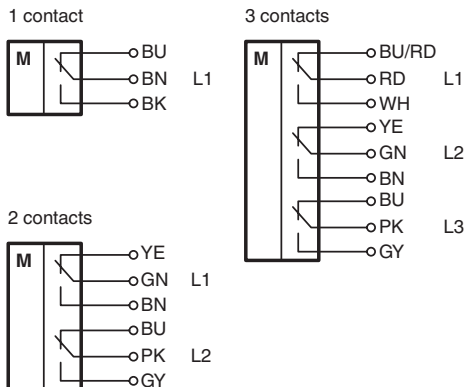
The skipping of switching points caused by abrupt level changes can be avoided using snap-on set collars on the probe tube. The same set collars are also used for latching contact operation.

**Assembly**



**Connection**

**Change-over contact**



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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

<b>General specifications</b>	
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
<b>Supply</b>	
Rated voltage $U_r$	250 V AC/DC
Current consumption	1 A
Power consumption	40 VA
<b>Output</b>	
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.
<b>Directive conformity</b>	
Low voltage	
Directive 2014/35/EU	EN 61010-1:2010
<b>Conformity</b>	
Degree of protection	IEC 60529:2000
<b>Operating conditions</b>	
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/cm <sup>3</sup>
<b>Ambient conditions</b>	
Ambient temperature	-20 ... 70 °C (-4 ... 158 °F)
<b>Mechanical specifications</b>	
Degree of protection	IP65
Connection	version LML: terminal box, max. 9 terminals version LML-PVC1: connection cable 1 m (3.3 ft), 0.75 mm <sup>2</sup>
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
<b>General information</b>	
Supplementary information	Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see <a href="http://www.pepperl-fuchs.com">www.pepperl-fuchs.com</a> .
<b>Accessories</b>	
Optional accessories	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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*This overview does not mark options which are mutually exclusive.  
Option with \* = on request/in preparation*

<b>Device</b>	
LML	Magnetic immersion probe for limit value detection
<b>Number of contacts</b>	
1	1 contact
2	2 contacts
3	3 contacts
<b>Guide tube material</b>	
D	PVDF, with G6 process connection
P	PP, with G1 or G5 process connection
<b>Float</b>	
5	Cylinder, Ø55 mm x 70 mm, PVDF
7	Cylinder, Ø44 mm x 44 mm, PP
<b>Process connection</b>	
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
<b>Process connection material</b>	
D	PVDF
P	PP
<b>Electrical output</b>	
DW	Change-over contact, directly
<b>Additional options</b>	
PVC1	PVC cable, 1 m, for G1 process connection
<b>Guide tube length</b>	
L	<p>Specified length, max. 1000 mm, other lengths on request</p> <p>Specify the the location of the contacts when placing your order. The tube length L will be defined corresponding to the lowest contact location.</p> <p>Minimum distance between L1 and L2: 20 mm.</p> <p>If you are using 3 contacts, observe the following distances</p> <ul style="list-style-type: none"> <li>• minimum distance between L1 and L2: 80 mm (for PVDF: 100 mm)</li> <li>• minimum distance between L2 and L3: 20 mm</li> </ul>

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