Level Sensors with Magnetic Floats

DESCRIPTION

Standard liquid level sensor. The sensor has to be mounted vertically for best results.

Two versions are available:

PP (Polypropylene) for water applications and dilute acids

PA (Polyamide) for use in oil, gasoline (petrol) and brake fluid

The standard termination is a PVC cable with a cross section of 0.14 mm² and a length of 500 mm. The cable can be modified on request.

FEATURES

- · High power switches available
- · Other cables, connectors and colors available
- Form A (normally open) and Form B (normally closed) types are available
- IP 68 (only to screw thread)

MATERIALS

Materials PA version				
Shaft, nut	Polyamide black			
Float	Polyamide black			
Seal	Nitrile rubber			
Materials PP version				
Materials PP version Shaft, nut	Polypropylene black			
	Polypropylene black Polypropylene black			

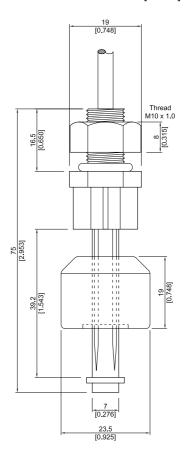


APPLICATIONS

 Liquid container monitoring in household appliances, automotive applications, test and measurement, and control technology.

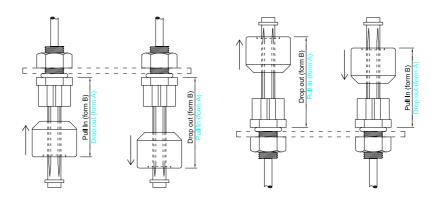
DIMENSIONS

All dimensions in mm [inches]



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MOVEMENT



ORDER INFORMATION

SERIES	CONTACT FORM	SWITCH MODEL	MATERIAL	CABLE LENGTH (mm)	TERMINATION		
LS02 -	хх	хх -	xx -	ххх	x		
OPTIONS	1 Form A	00.04	PA, PP	500 t	14/ V V		
	1 Form B	66, 84		500 *	W, X, Y		
* Other cable lengths available.							

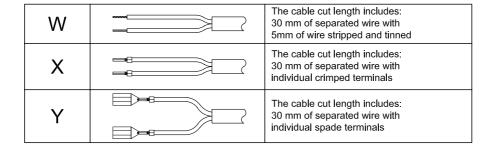
Part Number Example

LS02 - 1A66 - PA - 500 W

1A is the contact form 66 is the switch model PA is the material 500 is the cable length (mm) W is the termination

TERMINATION

For wire and termination details please consult factory.



Level Sensors with Magnetic Floats

CONTACT DATA

All data 20 ºC	Switch Model> Contact Form>	Switch 66 Form A / B		Switch 84 Form A / B				
Contact Ratings	Conditions	Min.	Тур.	Max.	Min.	Тур.	Max.	Units
Switching Power	Any DC combination of V & A not to exceed their individual max.'s			10			10	w
Switching Voltage	DC or peak AC			200			400	V
Switching Current	DC or peak AC			0.5			0.5	Α
Carry Current	DC or peak AC			1.25			1.0	А
Static Contact Resistance	w/ 0.5V & 10mA			150			150	mΩ
Dynamic Contact Resistance	Measured w/ 0.5V & 50mA 1.5 ms after closure			200			200	mΩ
Insulation Resistance across Contacts	100 Volts applied	1010*			10 ¹¹			Ω
Breakdown Voltage across Contacts	Voltage applied for 60 sec. min.	225 *			700			VDC
Operate Time, incl. Bounce	Measured w/ 50% overdrive			0.5			2.0	ms
Release Time	Measured w/ no coil suppression			0.1			0.1	ms
Capacitance	@ 10kHz across contact		0.2			0.7		pF
Environmental Data								
Shock Resistance	1/2 sine wave duration 11ms			50			50	g
Vibration Resistance	From 10 - 2000 Hz			20			20	g
Ambient Temperature	10 °C/ minute max .allowable	-20		90	-20		90	٥C
Storage Temperature	10 °C/ minute max. allowable	-20		100	-20		100	٥C
Soldering Temperature	5 sec dwell			260			260	°C

Please note: The indicated electrical data are maximum values and can vary downwards when using a more sensitive switch.

* Insulation resistance of 10¹² and breakdown voltage of 480 VDC is available.

These ranges refer to the uncut / unmodified Reed Switches described in our Reed Switch section. Consult factory if more detail is required.

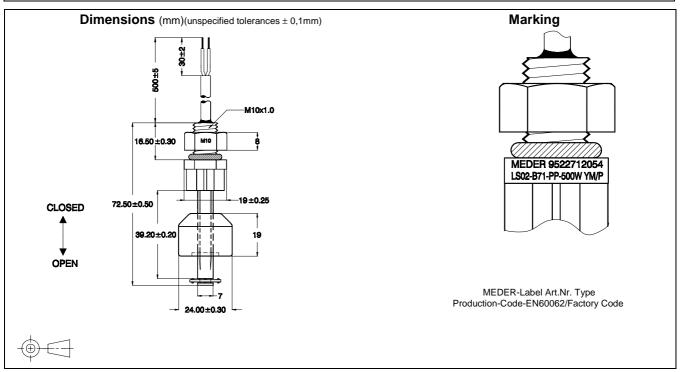


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Part Number: 9522712054



Contact Data 71 (Form A/Dry)		Min.	Тур.	Max.	Units
Contact Rating	Any combination of the switching voltage and current must not exceed the given rated power			10	W
Switching Voltage	DC or Peak AC			200	V
Switching Current	DC or Peak AC			0,5	Α
Carry Current	DC or Peak AC			1,0	Α
Static Contact Resistance (initial)	Measured with 40% overdrive			150	mΩ
Insulation Resistance	RH 45%	10 ¹²			Ω
Breakdown Voltage		240			VDC
Operate Time, including Bounce	Measured with 40% overdrive			0,5	ms
Release Time				0,1	ms
Capacitance			0,3		pF

Material						
stem	Polypropylene white					
nut	Polypropylene white					
float	Polypropylene white					
lock washer	Polypropylene white					
O-ring	nitril caoutchouc					

Environmental Data							
Shock	½ sine wave, duration 11ms			50	g		
Vibration	from 10 - 2000 Hz			20	g		
Operating Temperature	10°C/min max. allowable	-20		80	ů		
Storage Temperature	10°C/min max. allowable	-20		80	°C		
Contact Resistance with Cable	Measured with 40% overdrive			200	mΩ		
Sealing Compound		Epoxy resin					
Cable	Round cable LIYY 2 x 0,14 mm ² , grey, colour of wire: white and brown						
Cable	Ends of cable with 5±1 mm tinned leads						
Connection	M10 x 1,0						
Float specific density	approx. 0,7 g / cm ³						
Remarks	Float down = Contact open; Float over = Contact closed						

Modifications in the sense of technical progress are reserved DESIGNED BY: APPROVED BY: APPROVED BY: DATE:

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