



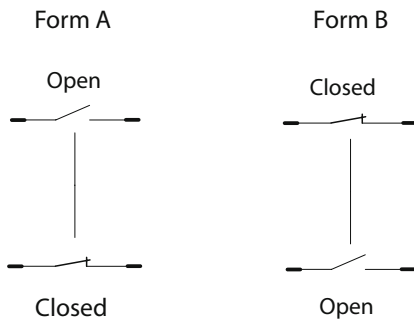
APPLICATIONS

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

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)

SWITCHING STATUS



DESCRIPTION

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

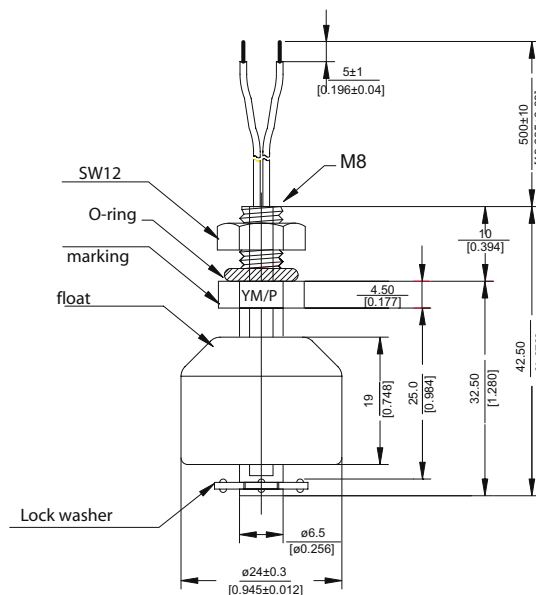
Two versions are available:

- 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 single wire with a cross section of 0.25 mm² and a length of 500 mm. The cable can be modified on request.

DIMENSIONS

All dimensions in mm [inch]



LS01 Series

MEDER electronic

Level Sensors with Magnetic Floats

ORDER INFORMATION

Part Number Example

LS01 - 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

Series	Contact Form	Switch Model	Material	Cable Length (mm)	Termination
LS01 -	xx	xx -	xx -	xxx	x
Options	1 Form A	66, 85	PA, PP	500 *	W
	1 Form B				
* Other cable lengths available. Standard graduation of length 0.5 m.					

TERMINATION

For other wire and termination details please contact factory.

W		The cable cut length includes: 5 mm of wire stripped and tinned
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MATERIALS

PA Version	
Stem, nut	Polyamide black
Float	Polyamide white with marking Alternative NBR
Seal	Nitrile rubber
PP Version	
Stem, nut	Polypropylene white
Float	Polypropylene white
Seal	Nitrile rubber

CONTACT DATA

All Data at 20° C	Switch Model → Contact Form →	Switch 66 Form A			Switch 85 Form A			Unit
		Min.	Typ.	Max.	Min.	Typ.	Max.	
Switching Power	Any DC combination of V & A not to exceed their individual max.'s			10			100	W
Switching Voltage	DC or peak AC			200			400	V
Switching Current	DC or peak AC			0.5			1.0	A
Carry Current	DC or peak AC			1.25			2.5	A
Static Contact Resistance	w/ 0.5 V & 10mA			150			150	mΩ
Dynamic Contact Resistance	Measured w/ 0.5 V & 50 mA , 1.5 ms after closure			200			200	mΩ
Insulation Resistance across Contacts	100 volts applied	10 ¹⁰ *			10 ¹⁰			Ω
Breakdown Voltage across Contact	Voltage applied for 60 sec. min.	225 *			4000			VDC
Operate Time incl. Bounce	Measured w/ 50 % overdrive			0.5			1.0	ms
Release Time	Measured w/ no coil suppression			0.1			0.1	ms
Capacitance	at 10 kHz across contact		0.2			0.2		pF
Environmental Data								
Shock Resistance	1/2 sinus wave duration 11 ms			50			50	g
Vibration Resistance	From 10 - 2000 Hz			20			20	g
Ambient Temperature	10°C/ minute max. allowable	-20		90	-20		90	°C
Stock Temperature	10°C/ minute max. allowable	-20		100	-20		100	°C
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 10 ¹² 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.								