

## 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 mm<sup>2</sup> and a length of 500 mm. The cable can be modified on request.

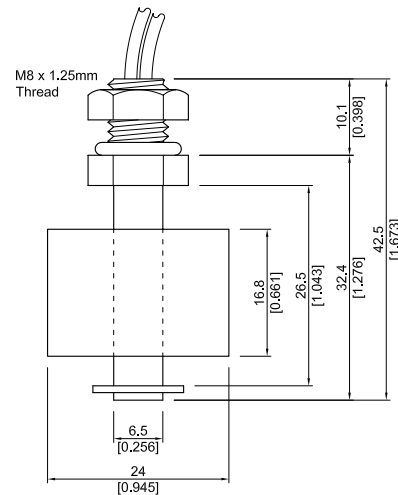


## APPLICATIONS

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

## DIMENSIONS

All dimensions in mm [inches]



## FEATURES

- High power switches available
- Other cables, connectors and colors available
- Form A (normally open) and Form B (normally closed) types are available

## ORDER INFORMATION

Part Number Example

LS01 - 1A71 - PA - 500 W

**1A** is the contact form

**71** is the switch model

**PA** is the material

**500** is the cable length (mm)

**W** is the termination

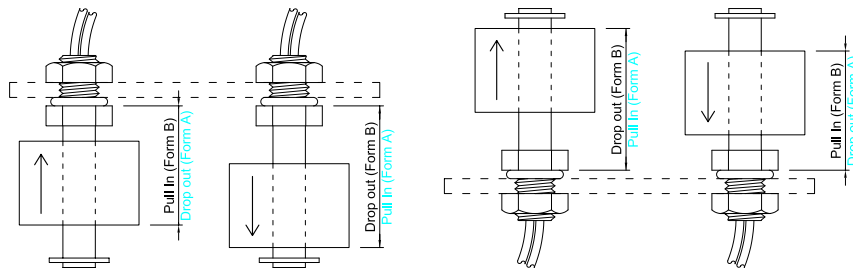
| SERIES                           | CONTACT FORM | SWITCH MODEL | MATERIAL | CABLE LENGTH (mm) | TERMINATION |
|----------------------------------|--------------|--------------|----------|-------------------|-------------|
| LS01 -                           | XX           | XX -         | XX -     | XXX               | X           |
| OPTIONS                          | 1 Form A     | 71, 84       | PA, PP   | 500 *             | W, X, Y     |
|                                  | 1 Form B     |              |          |                   |             |
| * Other cable lengths available. |              |              |          |                   |             |

## LS01 Series

MEDER electronic

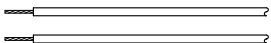
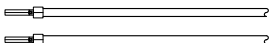

Level Sensors with  
Magnetic Floats

### MOVEMENT



### TERMINATION

For wire and termination details please contact factory.  
Form C version requires 3 conductors.

|   |   |   |
|---|---|---|
| W |  | The cable cut length includes:<br>5mm of wire stripped and tinned |
| X |  | The cable cut length includes:<br>individual crimped terminals    |
| Y |  | The cable cut length includes:<br>individual spade terminals      |

### MATERIALS

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

[www.meder.com](http://www.meder.com)

Germany # ++49-(0)7733-94870, USA # 800-870-5385

**CONTACT DATA**

| All data 20 °C   | Switch Model --><br>Contact Form -->                              | Contact 71<br>Form A / B |      |      | Contact 84<br>Form A / B |      |      |       |
|--|---|--------------------------|------|------|--------------------------|------|------|-------|
| Contact Ratings  | Conditions  | Min.                     | Typ. | Max. | Min.                     | Typ. | Max. | Units |
| Contact Rating   | 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  | A     |
| Carry Current  | DC or peak AC   |                          |      | 1.25 |                          |      | 1.0  | A     |
| Static Contact Resistance  | w/ 0.5V & 10mA  |                          |      | 150  |                          |      | 150  | mΩ    |
| Dynamic Contact Resistance   | Measured w/ 0.5V & 50mA<br>1.5 ms after closure                   |                          |      | 200  |                          |      | 200  | mΩ    |
| Insulation Resistance across Contacts  | 100 Volts applied   | 10 <sup>10</sup> *       |      |      | 10 <sup>11</sup>         |      |      | Ω     |
| Breakdown Voltage across Contacts  | Voltage applied for 60 sec.<br>min.                               | 225 *                    |      |      | 700                      |      |      | VDC   |
| Operate Time, incl. Bounce   | Measured w/ 50% overdrive   |                          |      | 0.5  |                          |      | 2.0  | ms    |
| Release Time   | Measured w/ no coil<br>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                      |      | 100  | -20                      |      | 100  | °C    |
| Storage Temperature  | 10 °C/ minute max. allowable                                      | -20                      |      | 90   | -20                      |      | 90   | °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.<br>* Insulation resistance of 10 <sup>12</sup> and breakdown voltage of 480 VDC is available.<br>These ranges refer to the uncut / unmodified Reed Switches described in our Reed Switch section. Consult factory if more detail is required. |   |                          |      |      |                          |      |      |       |