



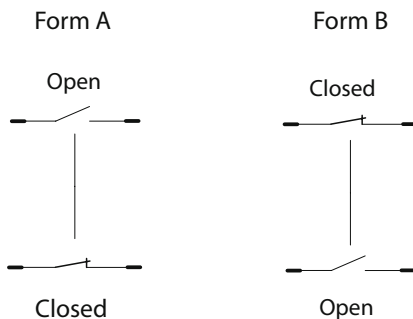
APPLICATIONS

- 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:

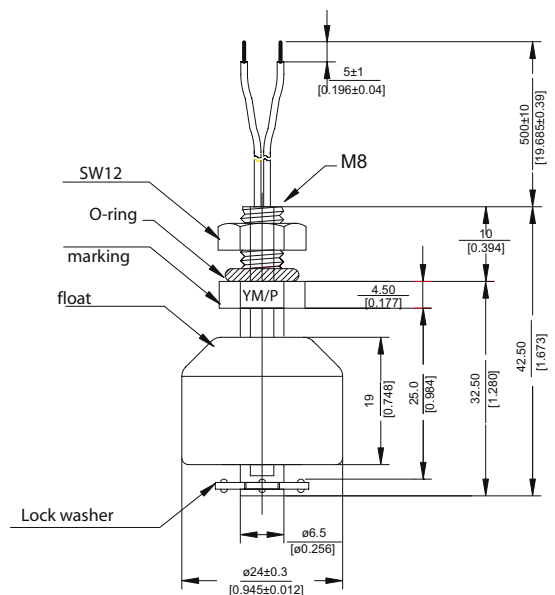
PP (Polypropylene) for water applications and dilute acids

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]



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

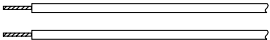
500 is the cable length (mm)

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 |
|----------|---|--|

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. | |
| Contact Ratings | Conditions | | | | | | | |
| 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. | | | | | | | | |