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Features

- Voltage rating up to 250VAC
- Current rating up to 1.0 amp
- Compact design and low profile
- Optional cable lengths
- Includes mounting hardware

Applications

- Water and fuel storage tanks
- Full and/or empty detection
- Pump on/off controls
- Marine bilge and ballast tanks
- Flood detection and prevention
- Coolant level indication
- Livestock watering tanks
- · Irrigation systems
- Water treatment plants
- Waste water tanks
- Chemical storage and processing

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HORIZONTAL LIQUID LEVEL SENSORS LS Series

High- or low-level switching N.O./N.C. SPST or SPDT outputs Mounted on the side wall of a tank Certified reed switch (UL component listed) Choice of several non-reactive wetted materials Many different configurations available

The LS series of point liquid level switches demonstrates a high degree of reliability due to the use of non-reactive wetted components and a unique reed switch designed specifically for level sensing applications. The sensor utilizes a moving float with an embedded magnet to activate a reed switch located in the sensor body. As the liquid level raises the float, it moves into close proximity to the reed switch and actuates it to give an open contact or closed contact switch indication.

The reliability of this sensor results from a very simple operating principle, a single moving part, media compatible wetted materials, and a unique reed switch design that has a UL recognized component certification.

The sensor mounts into the side wall of a liquid storage tank using either a 1/2" NPT or M16 x 2.0 threaded fitting. The M16 mount is available in either an internal or external configuration. The output is a simple N.O. or N.C. SPST, or SPDT reed switch that utilizes Ruthenium contact points for reliability. Changing from a N.O. output to a N.C. output is done by rotating the switch 180° in the mounting hole. This change can be done in the field. Electrical outputs are a single pair of wires with PVC insulation and optional lengths of 0.5 m or 2.0 m.

Absolute Maximum Ratings⁽¹⁾

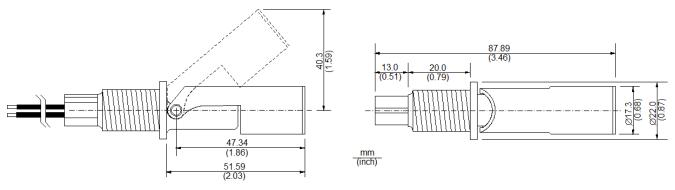
Parameter	Min	Мах	Units	Notes/Conditions
DC contact voltage (SPST)		100	V	Do not exceed 70W
DC contact current (SPST)		1.0	А	
RMS contact voltage (SPST)		250	V	
RMS contact current (SPST)		1.0	А	
DC contact voltage (SPDT)		170	V	Do not exceed 5.0W
DC contact current (N.O. SPDT)		0.4	А	
DC contact current (N.C. SPDT)		0.125	А	
RMS contact voltage (SPDT)		125	V	
RMS contact current (SPDT)		0.125	А	
Operating and storage temperature	-30	110	°C	
Fitting pressure	-1.0	4.0	Bar	Internal tank pressure
Tank wall thickness (Internal mount)	1.0	10	mm	
Tank wall thickness (External mount)	1.0	4.0	mm	

⁽¹⁾ Maximum limits the device will withstand without damage

Product Specifications

Parameter	Details & Options	
Mounting Orientation	Side entry	
Fitting	Internal or External	
Switch Operation	N.C. when float is horizontal	
Contact Forms	Form A (SPST) or Form C (SPDT)	
Contact Material	Ruthenium	
Contact resistance (max)	140 mΩ	
Housing and Float Material	Glass filled nylon 6.6 (better for oil, fuel, non-ionic liquids) Glass filled PPS (better for water and aqueous solutions) Glass filled Polypropylene (better for water and aqueous solutions)	
Cable Description	18 AWG 32/0.2mm PVC insulated, UL/CSA/BS6361	
Shock	±50g 11ms half sign duration	
Vibration	±35g 0 – 500Hz	
Ambient Humidity	0 – 95% RH (non-condensing)	
Ingress protection	IP68 (wetted surfaces) IP65 (non-wetted surfaces)	
Approvals & Certifications	UL file E98428	

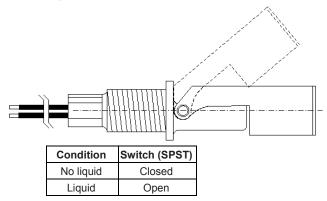
Outline Dimensions

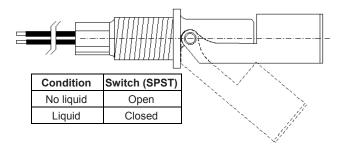


Schematic

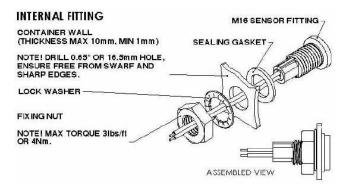


Mounting Orientations

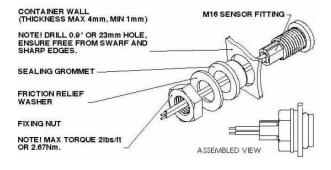




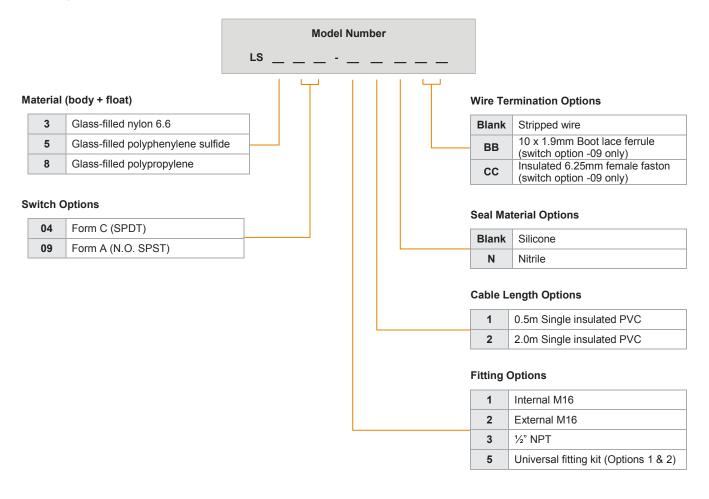
Mounting Detail & Hardware



EXTERNAL FITTING



Ordering Information



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