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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
- Full and/or empty detection

Applications

- Water and fuel storage tanks
- 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 SHORT-SWING LIQUID LEVEL SENSORS

LDS Series

High- or low-level switching N.O./N.C. SPST output Mounted on the side wall of a tank Certified reed switch (UL component listed) Body and float made from glass filled nylon 6.6

The LDS 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 a magnet into close proximity of 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 an M16 x 2.0 threaded fitting. The M16 mount is available in an internal or external configuration. The output is a simple N.O. or N.C. SPST 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	Max	Units	Notes/Conditions
DC contact voltage (SPST)		200	V	
DC contact current (SPST)		1.0	А	Do not exceed 70W
RMS contact voltage (SPST)		250	V	
RMS contact current (SPST)		1.0	А	
Storage and operating temperature	-30	105	°C	
Fitting pressure	-1.0	4.7	Bar	Internal tank pressure
Tank wall thickness (Internal mount)	1.0	10	mm	
Tank wall thickness(External mount)	1.0	4.0	mm	

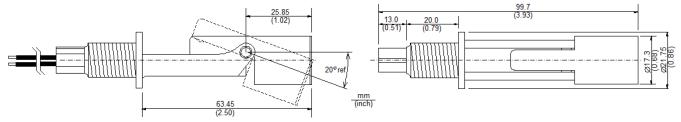
⁽¹⁾ Maximum limits the device will withstand without damage

Product Specifications

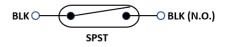
Parameter	Details & Options				
Mounting Orientation	Side entry				
Fitting	M16 x 2.0 Internal or External				
Switch Operation	N.C. when float is horizontal				
Contact Forms	Form A (SPST)				
Contact Material	Ruthenium				
Contact resistance (max)	140 mΩ				
Housing and Float Material	Glass filled nylon 6.6 (better for oil, fuel, non-ionic liquids) Glass filled 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				

LDS Series

Outline Dimensions

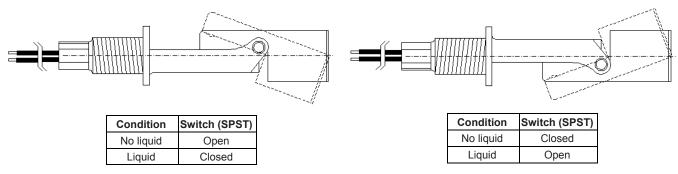


Schematic

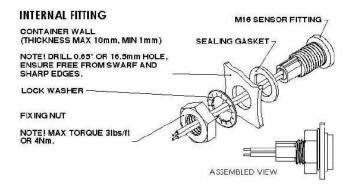


Switch position with no magnet present

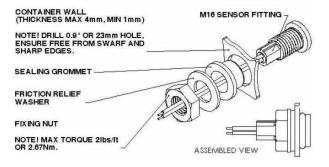
Mounting Orientations



Mounting Detail & Hardware

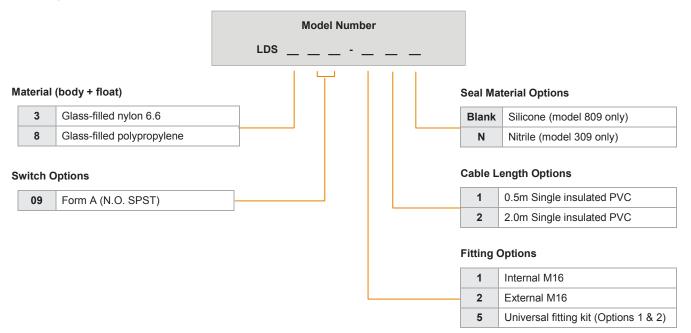


EXTERNAL FITTING



LDS Series

Ordering Information



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