

Reed Technology for Smart HVAC and Plumbing Market Applications



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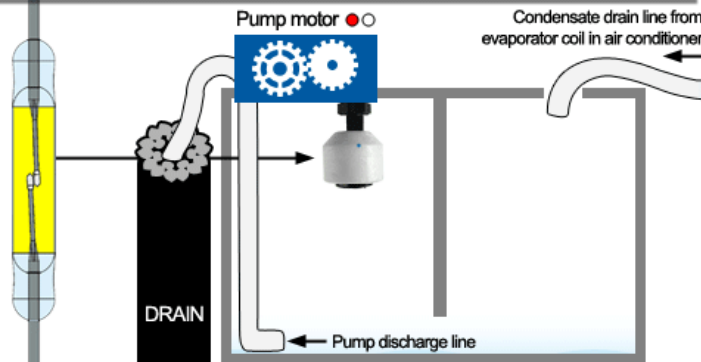
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- Sensors in HVAC devices have an important role. A typical unit can accumulate up to 15 gallons (60 liters) of water in a single day. With this much water being produced, care must be taken with the reservoirs to prevent water overflow. Reed sensors provide a reliable way to detect maximum levels to either alert the user or turn on a water pump.
- Magnet and reed sensors are isolated and have no physical contact by typically having the magnet mounted to a float and the reed sensor is mounted on the body of the casing close to the high point of the water and positioned to accurately pick up the magnetic field from the magnet in the float.
- The reed switch used in the reed sensor is hermetically sealed and is therefore not sensitive to rough, wet, moist environments.

Condensate pump contains liquid level sensor with magnetic float. When water level reaches highest level, the reed switch contacts close activating the pump to drain the reservoir. Electronic circuit detects current change when water drained to turn pump off.



Features:

- Hermetically sealed
- Minimal space required
- Corrosion resistant
- Good implementation
- Invisible
- Cost effective solution

Applications:

- Level Detection
- Temperature Detection
- Flood Prevention
- Water Flow Measuring
- On/Off Switch

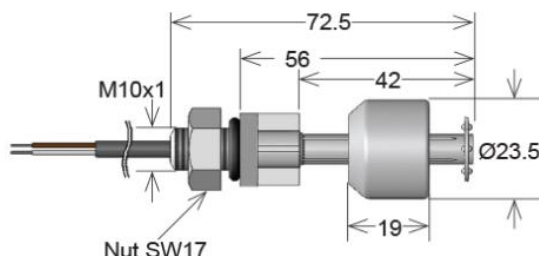
Customized Liquid Level Sensors



Customized Sensor Solutions allow us to consider the needs and desires of our customers to develop and produce custom innovations for them with the highest quality requirement. Sensors from Standex-Meder are characterized by a high-reliability, no power consumption, non-contact switching, and are hermetically sealed in a robust and shielded housing.

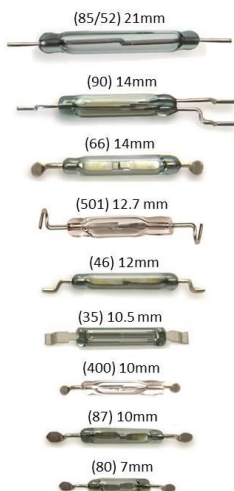
Technical Specifications – LS02 Level Sensor

Specifications LS02	
Contact form	1A, 1B
Rated Power (W)	0 up to 100
Switching Voltage (VDC)	0 up to 400
Switching Current (A)	0 up to 1
Carry Current (A)	0 up to 2.5



Compact single level vertical mount LS02 Series Liquid Level Sensor used in level control, detection and monitoring. High power switch option, other cables and connectors. IP68 only up to screw in thread.

SMD Reed Sensors – MK23 / MK15 / MK22



Specifications MK23	
Contact form	1A, 1C
Rated Power (W)	0 up to 100
Switching Voltage (VDC)	0 up to 1000
Switching Current (A)	0 up to 1
Carry Current (A)	0 up to 2,5

Specifications	MK15	MK22
Contact form	1A, 1B	1A
Rated Power (W)	0 up to 10	0 up to 20
Switching Voltage (VDC)	0 up to 200	0 up to 200
Switching Current (A)	0 up to 0,5	0 up to 1
Carry Current (A)	0 up to 1	0 up to 1,25

Surface mount reed sensor products are an SMT design used in switching and sensing applications. Choose from bare glass or rugged thermoset over-molded versions in SPST-NO, SPST-NC or SPDT changeover contacts. Choose from 9 different switch models from 7mm and up, ranging from 0-100W and switch voltages up to 1,000 VDC as well as 5 different surface mount lead designs. They are typically supplied in tape and reel and are ideal for automatic pick and place.



Flood Prevention Switches (HVAC/R) – FPS Series

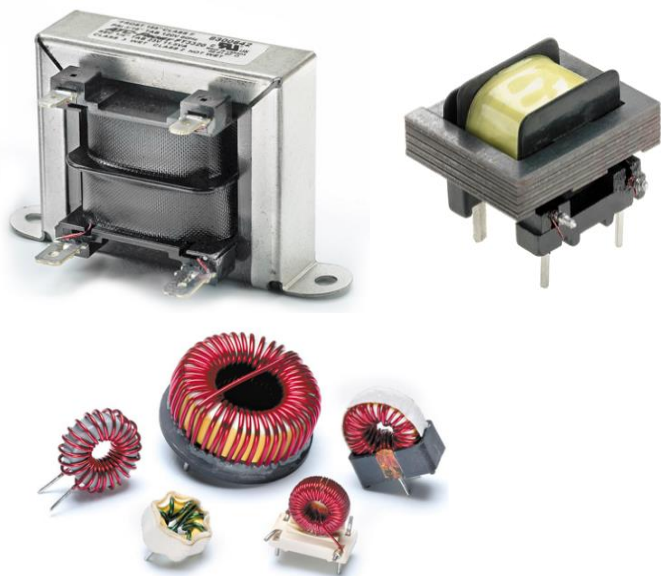


As the water level in the auxiliary or main drain pipe rises (due to a clogged air conditioning condensate drain) the switch shuts off the system, thus preventing water from overflowing, in-turn causing damage to floors, walls, and ceilings. Utilizing proven expert magnetic reed switch technology that features low voltage switching and reliable “no-stick” float designs, the switch operates smoothly every time. Quick and hassle free install and service features include: simple switch access, precision, no adjust switch install/removal, automatic switch reset, one spliced connection, flexible red or yellow wire connection, installation on primary and auxiliary drain pans and outlets, and high performance in low 1" drain pans.

The FPS Liquid Level Sensor Series is simple to install, easy to service, and extremely reliable. It is ideal in commercial or residential installation to primary condensate drains. Our most versatile plug-n-play model includes custom pipe fittings for easy and flexible installation options. UL508, NEC and IMC compliant.



Customized Transformers



Custom transformers can often help designers of HVAC/R equipment to gain a competitive edge in the marketplace. Our robust designs are available as single components – or can be combined with other components such as wiring harnesses, leads, moldings, stamping, even integration into up-stream/downstream components like sensors to simplify installation and reduce costs.

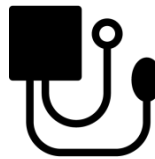
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DIAGNOSIS



MONITORING



TEMPERATURE

