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Selex™ Liquid Level Sensors

Models Available

SLX2 High Liquid Level Sensor
SLX3 Low Liquid Level Sensor
SLX4 High & Low Liquid Level Sensor

Product Features

- Liquid sensing by detection of free ions
- High immunity to probe deposits
- Full galvanic isolation
- FET output to drive solenoid valve / relay
- 110Vac, 230Vac or 5Vdc powered
- Time delay to avoid nuisance switching

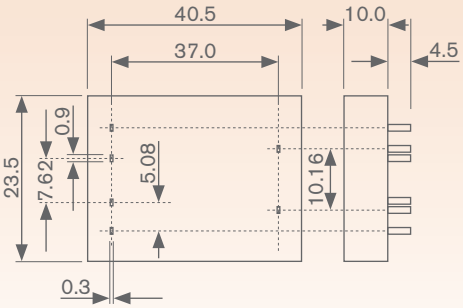
The Tempatron Selex™ liquid level sensors control the levels of conductive liquids by using advanced solid state ferromagnetic technology to sense the presence of liquid by detecting the free ions within it. They are ideal for applications where significant build up of deposit on the probes can occur, e.g. with adhesives or systems in hard water areas. They are available in 110Vac and 230Vac versions with a FET output (to drive a relay or solenoid valve) and 5Vdc powered versions with an NPN transistor output.

The sensors pass no measurable current through the liquid and provide full galvanic isolation between the supply, inputs and outputs. These sensors pcb mount, have an integral 5 second delay to avoid nuisance switching and require two mutually isolated metallic probes, one of which can be the container itself.

For detection and control of liquid levels in conductive liquids

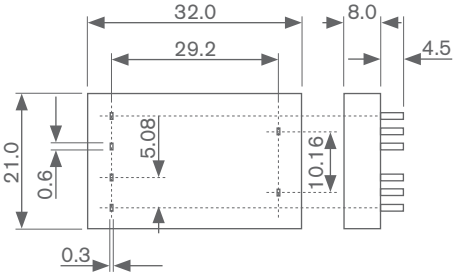
Dimensions

SLX2 & SLX3



PCB drilling diameter 1.0mm

SLX4

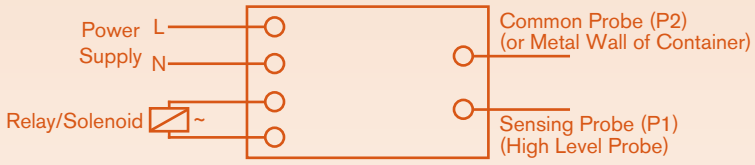


PCB drilling diameter 0.8mm

All dimensions in mm

Connections

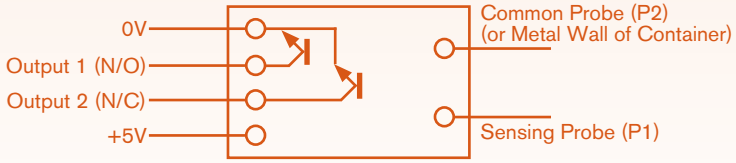
SLX2 High Liquid Level Sensor



SLX3 Low Liquid Level Sensor



SLX4 High & Low Liquid Level Sensor



View on pins

Ordering information

Model	Code	Description
	SLX2	High Liquid Level Sensor
	SLX3	Low Liquid Level Sensor
	SLX4	High & Low Liquid Level Sensor

Supply & Output	Code	Description
	/110R	110Vac with Relay Output
	/230R	230Vac with Relay Output
	/005N	5Vdc with NPN Output

Example	**SLX4/005N**

Specification

Power Supply Voltages:
- 110Vac (45-60Hz)
- 230Vac (45-60Hz)
- 5Vdc

Supply Voltage Variation:
- ±15%

Burden:
- 1.75mA nominal

Probe Current:
- <5µA

Output (110 or 230Vac Models):
- Full wave rectified DC output voltage 99V/207V (20VA maximum)

Output (5Vdc Models):
- 2 x 50mA current sink into NPN transistor, open collector (30Vdc max.)

Re-activate Delay:
- 5 sec nominal (110/230Vac models)

De-activate Delay:
- 100ms nominal (110/230Vac models)

Probe Type:
- 2 x metallic probes, insulated from tank wall, nominal surface area 1cm^2

Output Operation:
- SLX2: Relay energised when probe out of liquid
- SLX3: Relay energised when probe is in liquid
- SLX4: Output 1 conducting when probe out of liquid and output 2 conducting when probe is in liquid

Operating Temperature:
- -20°C to 65°C

Enclosure Code:
- Case IP65

Weight:
- SLX2 & SLX3 13g
- SLX4 7g

Specification subject to change without notice.

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