

CONDUCTIVITY TYPE LEVEL SWITCH

Conductivity type Level Switch is simple, low cost, point Level controller that is used in variety of application for detecting level of conductive liquids. It is available in two versions – one is non-integral (remote) and other is integral.

A low AC Voltage is connected via the control unit between the sensing electrodes and reference electrodes (tank wall in case of metallic tanks). As soon as the conductive material touches the electrodes, a low AC current starts to flow which operates the relay in the control unit.

Probe unit consists of electrode assembly and probe head. Electrode assembly consists of sensing electrodes (whose tip is at the point where level detections are required) and a reference electrode (required for non metallic tank). Control unit provides the visual indication for level and relay output whose potential free contacts are available for subsequent operation.

The control unit houses sensing electronics consisting of power supply and signal conditioning circuit, which provide a low AC voltage across sensing electrodes and reference electrodes. Integral version does not have a separate control unit and the controller electronics is provided in the probe head.

Salient Features

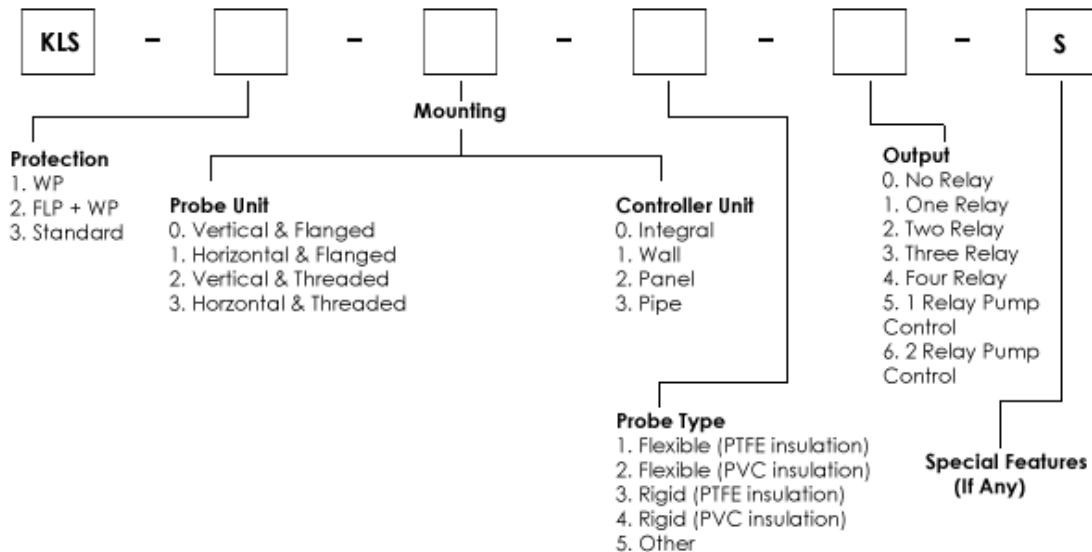
- Uses proven level control techniques;
- Wide range of application including corrosive media;
- Simple to install;
- Fail safe features incorporated;
- Can be operated as independent level controller or differential level controller;



Specifications

Enclosure	: Cast Aluminum / Ms Fabricated / Fiber Glass / DMC etc.
Enclosure Protection	: IP – 55 / IP – 66 / IP – 67.
Cable entry	: ¾" ET, ½" NPT, etc.
Process connection	: Flanged/Threaded as per BIS, BS, ANSI & other standard.
Probe type	: Rigid up to 3 Meters and Flexible up to 10 Meters.
Electrode material	: SS 304 / SS 304L / SS 316 / SS 316L / Titanium, etc.
Electrode insulation	: PVC / PTFE / Rubber Lined, etc.
No. of preset level	: Up to 4 (four) for non-integral and Up to 2 (two) for integral.
Sensitivity (max.)	: 100 micro siemens
Output	: DPDT for each alarm level, rated 5A, 230 VAC, resistive load.
Power supply	: 110/230 ± 10% V AC, 50 Hz or 24V DC.
Indication	: LED - Red for Alarm & Green for normal.
Mounting	: Horizontal / Vertical.
Maximum Temperature	: 200°C for non-integral and 60°C for integral Version
Maximum Pressure	: 25 Kg/cm ² for rigid probe unit and 20 Kg.cm ² for Flexible probe unit.

Model Number of Conductivity Type Level Switch



Note: 1) Flexible probe are provided with a counter weight.

2) A transmitter card will be mounted inside probe head for non integral models having 3 or more relays so that probe unit can be connected to remote unit using two wire.



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