

LS-85 / LS-86

Liquid Level Switches

FEATURES

- * Magnetic Switching Principle
- * No Seals or Gaskets.
- * Corrosion Resistant Materials.
- * High Pressure Capabilities:
- * Amplifying and Latching Relay options allow High Current Switching
- * Excellent Switch Point Repeatability
- * Up to 15 Foot Probe Lengths

OPERATION

The principal of operation is that of a magnetic fields actuating magnetically operated Reed Switch's located inside of the LS-85 and LS-86 Switch probe. The magnetic field is generated by a movable float which slides freely along a length of the switch probe, and follows the Liquid Level inside of the process vessel. The reed switches are positioned at heights inside the switch probe that are adjacent to float positions representing the desired switch actuation points.

Switches can be of the Latching type, or Non-Latching type.

A latching switch changes contact position when the float passes the switch from one direction, and reverts to it's original contact position when the float passes back by the switch in the opposite direction.

A Non-Latching switch maintains it's contact change of state only while the float is positioned over the switch, and is generally used in conjunction with float stop collars.

For example a high level overflow alarm switch might be constructed such that a float stop is positioned above the float at the high level trip point. The float stops moving upward at the stop, and holds in the Non-Latching switch even though the liquid level might continue to rise.

The primary difference between the LS-85, and the LS-86 is the number of floats used on a single switch probe. The LS-85 employs Multiple floats, whereas the LS-86 Switch always used only one float.

ADVANTAGES

Some major advantages of the LS-85 and LS-86 switches are:

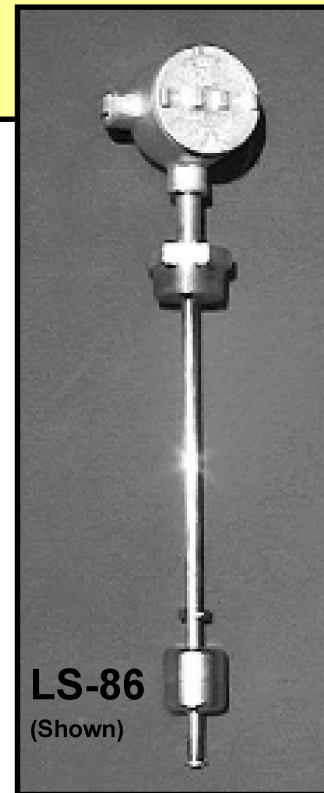
Cost Effective

May be inserted through small process vessel openings

High pressure capabilities

Direct Level Control and Signalling

Variety of Materials for Process Compatibility



APPLICATIONS

The LS-85, and LS-86 series of switches can be used anywhere High and Low level Switching is required.

Some examples are :

Sump Pump Controls

Tank Overflow Prevention

Low and High Level Alarms

The cost effective design of these switches make them useful in a broad variety of applications ranging from pressurized tanks in Hazardous areas, to open sump water applications.

SPECIFICATIONS

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|------------------|---------------------|
| Temperature | Up to 300 deg F Max |
| Pressure | 1000 PSIG Max |
| Specific Gravity | .30 Min |
| Measuring Range | Up to 15 Ft Max |