



TSP-HLS Leak Detection Sensor

The TSP-HLS Level Sensor is an overfill prevention switch which is compatible with all Tank Sentinel® Automatic Tank Gauge consoles. It may be adjusted to operate over a wide range of levels. The TSP-HLS is based on float-switch technology and is made of chemical resistant materials to assure compatibility with most liquids. Each sensor is supplied with jacketed cable five feet in length. The TSP-HLS's normally closed output circuit provides supervised operation, ensuring that broken wires and similar failures will not go undetected.



Theory of Operation

The secret to the TSP-HLS's reliability is its float switch technology. A small magnetically activated reed switch is located inside the body of the sensor. Tiny magnets are positioned inside a light weight float which is free to move up and down along the shaft so that the magnets are below the reed switch. When the sensor is immersed in liquid, the float rises and the magnet activates the reed switch, signaling the console that the high limit has been reached.

Application

The TSP-HLS is installed in a two inch NPT fitting on the tank. The level at which it operates may be adjusted by loosening a fitting and moving the sensor's shaft in or out of the tank as required.

PART NUMBER	DESCRIPTION
TSP-HLS-15	High Product Level Sensor - 15" (381 mm) long, installed in tank
TSP-HLS-15/SS	High Product Level Sensor - Stainless Steel 15" (381 mm) long, installed in tanks containing alternative fuels
TSP-HLS-30	High Product Level Sensor - 30" (762 mm) long, installed in tank
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