

LIQUID LEVEL SWITCH

Model PLS

The Model PLS Level Switch provides up to six independent liquid level switches on one sealed probe up to 72" in length. Magnetic reed switches are encapsulated in the sealed brass probe where they are protected from liquids and vapors. Buna-N floats, containing magnets, slide on the outside of the brass probe. A rising liquid level causes each float to rise to its upper travel stop position where it actuates a switch. For integration into a Preferred fuel oil handling system the PLS switches are supplied with the switch contacts "closed" when the float is in the down position, but either orientation can be ordered.

Application

The Model PLS level switch may be used with any clean, low viscosity, non-adhering fluid compatible with brass, solder, epoxy and Buna-N. It is commonly used on fuel oil day tanks to control the addition of oil from remote pumps, and to alarm high and low levels. Other applications include pressurized or vented tanks for water, hydraulic fluid, lubricating oils or distillate fuels. Insert the unit vertically and then thread it into a 1¼" NPT half coupling on the tank shell. The wiring enclosure is not designed to be submerged. A suitable protective enclosure for access, such as the Preferred sidewalk fill box, should be provided when installing underground. (See page 83.)

Suggested Specifications

The tank level control shall be Model PLS-XX-Y (XX" long with Y switches) as manufactured by Preferred Utilities Mfg. Corp. Danbury, CT. Control shall be float operated, installed through and threaded into a single 1¼" tapping on the top of the tank. Control shall be suitable for pressures up to 150 PSIG and temperatures up to 180°F and shall be entirely of nonferrous material with ___ switches each rated at 100 watts.

Specifications:

Mounting:	1¼" NPT coupling
Fluid Temperature:	180° F maximum
Fluid Specific Gravity:	0.5 minimum
Fluid Pressure:	150 PSI maximum
Electrical*:	100 W at 120 VAC resistive 8 VAC relay coil pilot duty
Switch Action:	Can be N.O. or N.C.
Housing:	Cast aluminum, UL listed
Wetted Parts:	Brass probe and Buna-N float

* Do not operate tungsten lamps directly from the contacts of the Model PLS as the cold filament inrush current will damage the contacts



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Ordering Information

Model PLS-[length in inches]-[# of switches]

Preferred Level Switches are custom fabricated. The probe can be up to 72" long with up to 6 switching points that may be specified to be either "open" or "closed" at any point along the probe length. At least 3" must be provided between adjacent operating points, 2" between the lower end of the probe and the lowest operating point, and 2" between the highest operating point and the bottom of the mounting plug. Please contact the factory and request Form 344 which details the information required for each assembly.

Specifications subject to change without notice.