



LS CAPACITIVE LEVEL SWITCH

Installation & Setting-up Instructions

The level switch comprises a sealed plastic tube containing the sensing circuitry attached to a polypropylene termination head a 1¼" B.S.P. stainless steel union is provided to mount the unit. High temperature, adjustable and extended probes are available.

The terminating head carries the switching relay, light emitting diode (LED) indicator, sensitivity potentiometer and terminals.

Both power supply and volt free contact connections are made to the terminal blocks in the terminating head.

The plastic tube is produced in polypropylene (Blue) for application up to 80⁰C, (LS1) and Ryton 4 (Brown) for higher temperatures up to 200⁰C (LS8). Ryton 4 can also be used for use in aggressive solutions.

Power Supply: - The level switch can be powered from 15 to 30 volts DC or 12 volts AC supply.

Operation: - With the plastic tube uncovered by fluid, provided the sensitivity potentiometer has been correctly set, the switching relay will be de-energised, the relay contacts 'C' to 'NO' will be open and the LED extinguished.

With the tip of the plastic tube immersed in fluid, provided the sensitivity potentiometer has been correctly set, the switching relay will be energised, the relay contacts 'C' to 'NO' will be open and the LED extinguished.

Setting the Sensitivity: - With the tip of the plastic tube uncovered (in air), rotate the potentiometer in the terminating head fully clockwise to 'MIN' The switching relay should be de-energised and the L.E.D. fully illuminated.

Immerse the tip of the plastic tube in the liquid whose presence is to be sensed.

Rotate the potentiometer clockwise until the switching relay is energised and L.E.D. fully extinguished.

The level has sensed the liquid presence.

Rotate the potentiometer clockwise one further division as marked on the circuit board. This will increase the sensitivity slightly to prevent 'hunting' and allow for slight variations in liquid density etc.

The sensitivity is now set for this particular liquid and density.

Changes in liquid type or density may require the sensitivity to be reset.

Note: - The L.E.D. may start to illuminate during adjustment and before the relay switch point is reached. Switching does not take place until there is an instant change to full brilliance. Similarly, switching in the reverse direction occurs only when the L.E.D. becomes fully extinguished.

