



TRITON CONTROLS - FLOAT SWITCHES

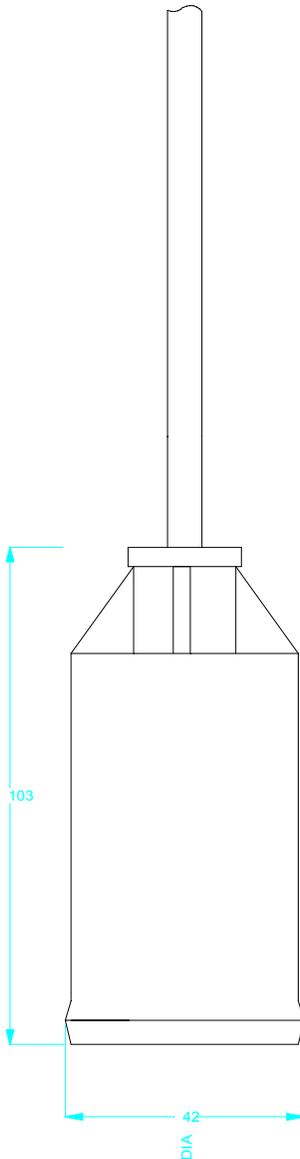
LR09 – NON MERCURY LEVEL REGULATORS

Float Switches are inexpensive and efficient liquid level detectors. They are simple to install, and designed for trouble free operation over a long life. The LR09 is a plastic float switch using a synthetic rubber 3 core cable. Actuation is via a roller ball and micro-switch arrangement within the switch thereby eliminating all heavy metals from this version.

Construction

The unit comprises three major components :

1. The float chamber houses the micro-switch arrangement, totally sealed within a polypropylene casing, with a single pole double throw action.
2. The three-cored cable, connected to the micro-switch assembly inside the float chamber, is sheathed in CSP (chlorosulphonated polyethylene) synthetic rubber. This cable is supplied in three standard lengths, 1 metre, 5 metres and 10 metres $\pm 5\%$ of the length quoted.
Other cable lengths are available to order.
3. The optional stabilizing weight may be fixed at any point on the cable using the rubber "O" ring supplied. The weight is sealed within a moulded polypropylene housing.
In order to provide total positional security in lubricants and similar liquids, a nylon cable-tie is provided for attachment to the cable beneath the weight



Mounting

Whilst no hard and fast rules apply to the mounting of these units, the lead should be supported in an enclosed vessel, and in an open vessel it is advantageous to clip the lead to the side, especially if excessive turbulence is experienced.

To obviate the effects of rapid switching conditions that would result if such turbulence is experienced, it is advantageous to use a maintaining circuit which both safeguards the micro-switch and cuts out any chatter in the starters of associated pumps etc

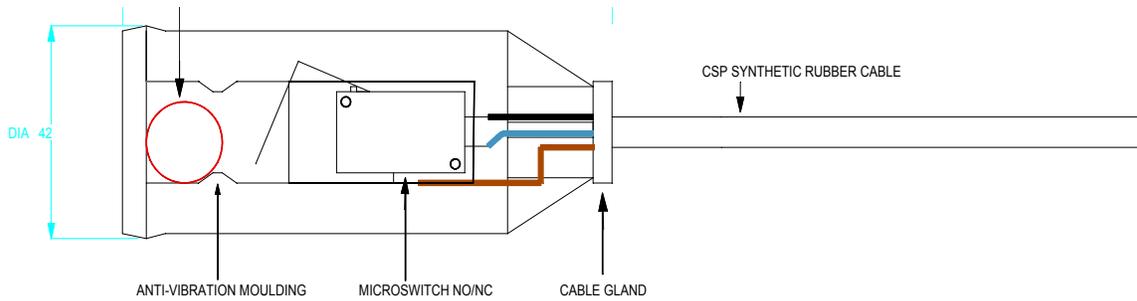
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LR09 - PLASTIC FLOAT SWITCH

Method of Operation



The micro-switch assembly inside the float, axially mounted in line with the weight, changes contacts according to the float's position, as in the diagram below. Therefore as the liquid level drops or rises slowly, a pump or flow control suitably connected, can be switched in or out to maintain an average level of the liquid. By connecting only one side of the switch, the unit can be also used to fill or empty the tank as required.

Dimensions, in mm, do not take into consideration any lateral swing of the cable.

Contact rating: 250V 3A, non-inductive.
250V 2A, inductive.

NOTE: Local Regulations may limit the voltage.

Max. temperature 70° C

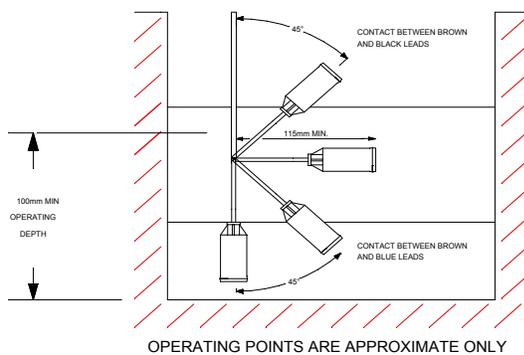
Max. submerged depth 10 metres

Compressive Strength 482 KN/m² (70 lbf/in²)

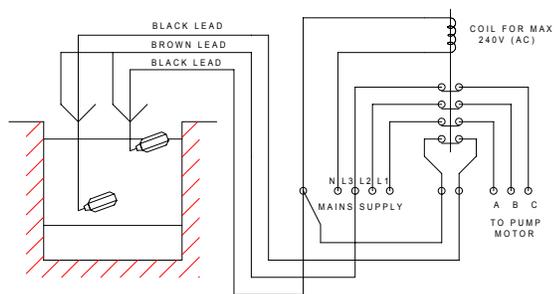
Operational in specific gravities from 0.8 to 1.3

A comprehensive list of chemical resistances for the LR09 float switch is available on request.

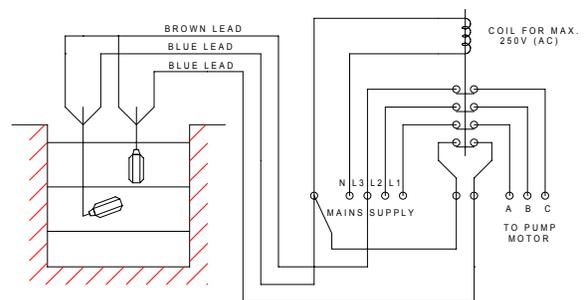
LR03-Weight 275 g



Connection diagram for automatically emptying tank



Connection diagram for automatically refilling tank



When ordering please specify part numbers.

Type	Part Number	Weight (Approx)	Type	Part Number	Weight (Approx)
1 metre CSP cable	LR09-L01M-CSP	0.3 Kg	5 metre CSP cable	LR09-L05M-CSP	0.6 Kg