



FERRIER PUMPS LTD

Edinburgh • Glasgow • Aberdeen

www.ferrierpumps.co.uk

FLOAT SWITCHES

- WRAS Approved version
- Available in various lengths
- Inexpensive and efficient
- Simple to Install

Overview

LR04 - FLEXI:

This float switch differs from the standard switch in having a more flexible cable which enables the distance between the clamping point and float chamber to be less than 300mm recommended for the standard unit.

Contact Rating: 4 amps

LR02:

The switch in the LR02 comprises of a micro switch and rolling ball arrangement. The micro switch assembly inside the float, axially mounted in line with the weight changes contact according to the float's position. Actuation is via a roller ball micro switch arrangement within the switch thereby eliminating all heavy metals from this version.

Contact Rating: 15 amps non-inductive.

10 amps inductive.

LR07:

This float switch is a plastic switch moulded to a EPDM 3 core cable (WRAS Approved). Actuation is via a roller ball micro switch arrangement within the switch thereby eliminating all heavy metals from this version.

Contact Rating: 15 amps non-inductive.

10 amps inductive.

LR03:

This float switch is plastic moulded to either a PVC or synthetic rubber 3 core cable. Actuation is via a roller ball micro switch arrangement within the switch thereby eliminating all heavy metals from this version.

Contact Rating: 15 amps non-inductive.

10 amps inductive.

Mechanical Installation

1. Drill tank lid with a 9mm hole close to access cover but away from the ball valve to prevent disturbance.
2. Fit cable gland holder over the 9mm hole securing in position with the self tapping screws provided.
3. Feed the cable through the lid & gland using the top compression nut to lock the float switch at the required depth.
4. Adjust the pivot weight for the required differential between contact make & break.

The weight uses an O ring or gripper to secure the cable but extra fixing by cable tie is recommended.

Electrical Connections

The unit has a three core cable coloured black, brown & blue.

Brown - common.

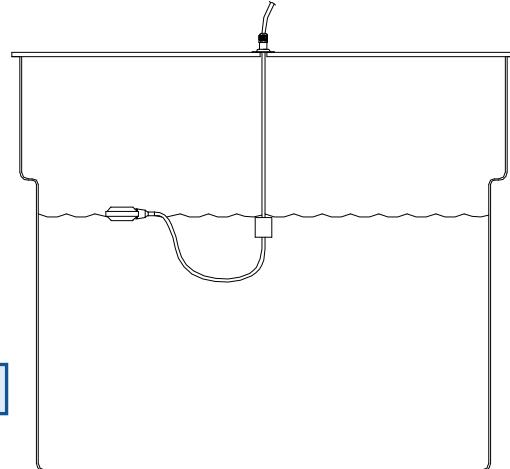
Brown & Black - contact makes on level rise.

Brown & Blue - contact makes on level drop.

For pump low level protection use black for feed, brown return.

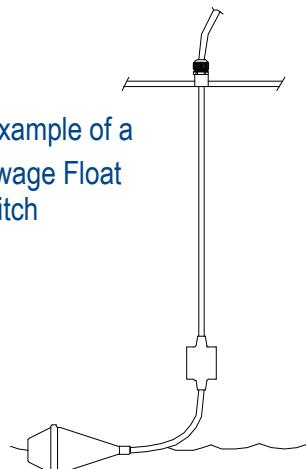
NOTE: THE WIRE NOT USED MUST BE

CORRECTLY INSULATED



►Example of a WRAS Listed Float Switch in a tank

SEWAGE FLOATS	
CODE	LENGTH
LR04 - FLEXI	5m
LR02 - L10M	10m
LR02 - L20M	20m
FLOAT SWITCH	
CODE	LENGTH
LR07 - L10M (WRAS)	10m
LR07 - L20M (WRAS)	20m
FLOAT SWITCH (PVC CABLE)	
CODE	LENGTH
LR03 - L10PVTR	10m
LR03 - L20PVTR	20m



►Example of a Sewage Float Switch

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