



FLOAT SWITCH

FS5

Features

- Fully sealed alloy enclosure.
- Automatic operation.
- Easy wiring
- Replaceable micro-switch.
- Submersible components are impervious to saltwater, alkaline solutions, oils and weak acids.

Uses

Liquid level control in;
Tanks, reservoirs, pits, dams etc.

Application

The PDL precision snap action Float-Switch is designed for operation in magnetically operated motor starting control circuits, or alternatively may be connected directly in the main active switching circuit of single phase motors up to 2 hp 250 Volt AC.

The PDL Float Switch provides accurate and dependable control of high and low liquid levels. It is designed primarily for operation in fresh or saltwater, alkaline solutions, oils or weak acids, having a specific gravity between 0.9 and 1.1 and a maximum temperature of 38°C.

Construction

The unit incorporates a 20 Amp. replaceable Micro-Switch contained in a compact, robust powder coated alloy case fitted with a rubber gasketed cover and a neoprene seal on the operating spindle. This permits the units to be installed in locations requiring Dust Tight or Weatherproof enclosure. The non ferrous operating spindle is carried in self lubricating bushings and all working parts are corrosion proofed.

Ratings:

AC: 20A; 125, 250 or 480V
Motor Starting: 1hp, 125VAC
2hp, 250VAC
DC: 0.5A 125V
0.25A, 250V

Terminals are located in a convenient position for easy wiring and a M20 screwed conduit entry is provided.

The float has no metal parts and is completely constructed of Poly-Vinyl Chloride (P.V.C.) on a nylon suspension line provided with adjustable nylon upper and lower operating stops.

The line weight is powder coated and is adjustable to any position on the suspension line.

Switches are provided with 2.7m of suspension line, but this length may be increased using nylon line of approx. 1.0mm diameter.

The powder coated alloy operating arm is balanced to match the line weight (when suspended in fluid with a specific gravity of 0.9 to 1.1).

The design provides positive operating effort to the snap action switch mechanism at extremely slow speeds of the float, this ensures positive contact opening and closing, eliminating contact chatter.

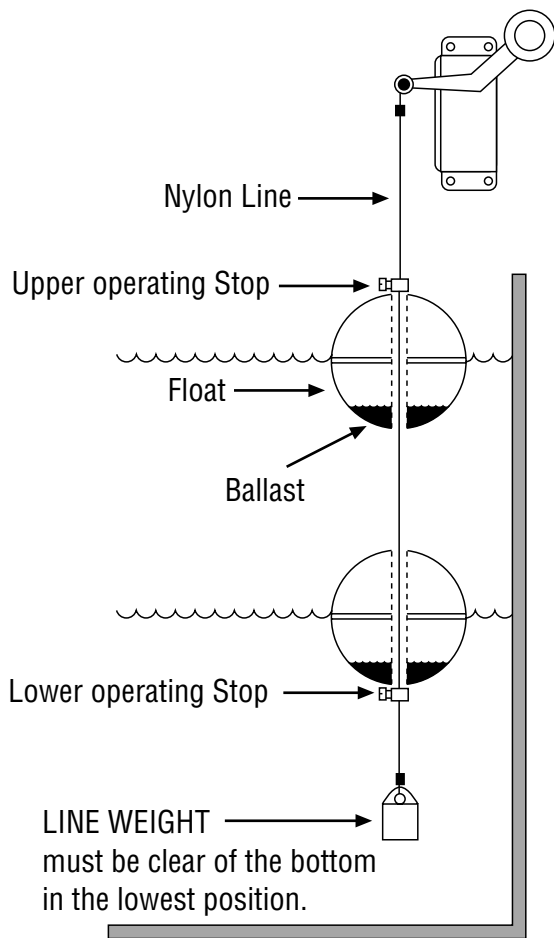
Ordering

Cat No.	Description
FS5	20A Single Pole Double Throw Float Switch, complete with 2.7m of float suspension line, line weight, operating stops and float ball.

Spare Parts

Cat No.	Description
FS5/1	20A Single Pole Double Throw float switch
FS5/2	Operating arm assembly
FS5/3	Float ball
FS5/4	Suspension line, line weight and operating stops
FS5/6	Microswitch assembly

Float Switch Operation



Operating Arm

SETTING FLUID LEVELS

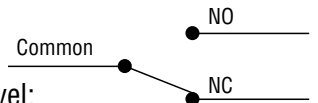
Fluid levels are determined by the positions of the upper and lower operating stops—levels are limited only by the length of the nylon line.

HIGH FLUID LEVEL

The float buoyancy raises the line weight and the switch is actuated by the operating arm.

High Fluid Level

Contact configuration after switch operation at high fluid level:



LOW FLUID LEVEL

The weight of the float, including ballast comes to rest on the lower operating stop and operates the switch

Low Fluid Level

Contact configuration after switch operation at low fluid level:

