

FS15U120PB & FS15U240PB SERIES - 15 AMP PUMP UP FLOAT SWITCHES

The FS15U120PB and FS15U240PB Series Pump Switches are used to turn a pump on with liquid level falling. The contacts are normally closed (NC) for filling tank applications. Contacts are closed while the switch is hanging down and will open on a rising liquid level.

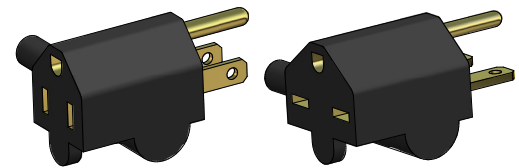
This product can be used for a variety of applications, including but not limited to, cisterns, water tanks, and any other filling or low liquid level alarm applications.

The pump switches are wide angle and mechanically operated using a microswitch which is activated by the ball inside the float housing.

These switches are available with a 120VAC piggyback plug or a 240VAC piggyback plug and with several cable lengths. These switches are suitable for applications up to 0.5 HP (FS15U120PB series) and up to 2 HP (FS15U240PB series) with fluid temperatures up to 140 °F (60 °C).

NOTE: Check to make sure the correct pump switch is being used for the application. These pump switches are not to be used as control/sensor switches directly wired into a control panel.

Normally Closed (Pump Up) - Contacts are closed while hanging down and will open on a rising liquid level. Typically used for fill tank applications.



120VAC piggyback plug

240VAC piggyback plug

(1) Polypropylene Housing - Designed for temperatures up to 140° F (60 °C), resistant to harsh chemicals, and withstands high impact. The ridgeless housing design creates optimum operation of the pump float switch and prevents materials from adhering to the housing.

(2) Cable Type - SJOOW (UL/CSA), 14 gauge, 2-conductor, flexible, and water/oil resistant. Available in 120VAC piggyback plug and 240VAC piggyback plug.

(3) Internal Wiring - Solder dipped wiring with an epoxy filled chamber for moisture seal technology and protection from water intrusion (solder dipped wiring on bare lead models only).

(4) Ball - Located inside the float housing and used to actuate the microswitch.

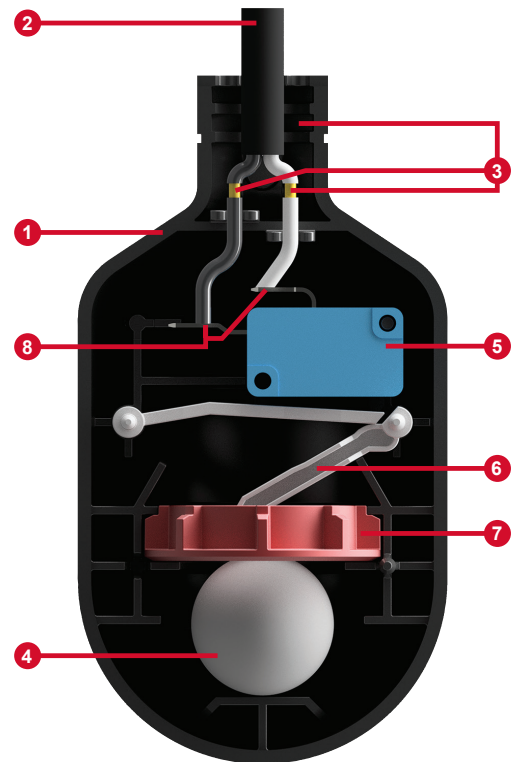
(5) Microswitch - Activated by the ball inside the float housing causing the contacts to open or close.

(6) Actuator Arm - As the float tilts above/below horizontal, the ball inside the housing will activate or deactivate the actuator arm causing the microswitch to turn on/off.

(7) Switching Differential - Wide angle (90°) switching differential.

(8) Innovative Mechanical Design - Using mechanically activated, snap action contacts eliminates the use of hazardous mercury for an environmentally safe product.

(9) Omni-Directional (not shown) - Not sensitive to either rotation or turbulence. The float switch will operate at the designed angle regardless of the direction of the tilt.



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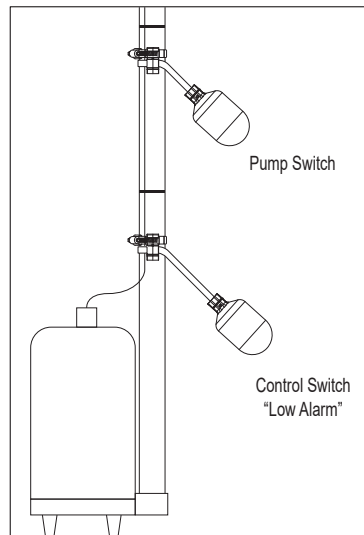
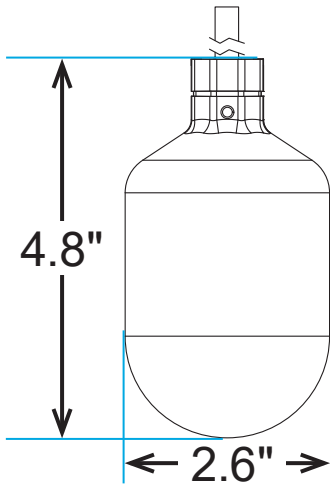
BII-FS15U-0123(2330) V3

FS15U120PB & FS15U240PB SERIES - 15 AMP PUMP UP FLOAT SWITCHES



SPECIFICATIONS:

- Primary Voltage: 120VAC or 240VAC, 60 Hz (voltage depends on model/part number)
- Amperage: 15 Amps, 120VAC 0.5HP or 240VAC 2.0HP
- Float Housing Material: Polypropylene
- Float Housing Size: 2.6 inches (diameter) x 4.8 inches (length)
- Cable Type: SJ00W (UL/CSA), 14 gauge, 2-conductor, flexible, and water/oil resistant
- Connection Types: Piggyback Plug (120VAC or 240VAC)
- Operating Temperature: 0 - 140° F
- Switching Differential: 90° total (wide angle)
- Switch Configuration: Single Pole, Single Throw (Pump Up only)
- Mounting Method (float attachment): Pipe Clamp, Stainless Steel
- Certifications: CSA (US and Canada)



EMPTY TANK
(normally closed example)

Tether Length Guide									
Tether Length	3.5"	4"	6"	8"	10"	12"	16"	20"	24"
Pumping Range									
Wide Angle	7.5"	8.25"	9.75"	13.3"	15.8"	20"	25.5"	32"	40"

CAUTION: USE AS GUIDE ONLY, ACTUAL RANGES MAY VARY
(Reference Only - Testing Must Be Performed for Actual Ranges)
Pump Switches - minimum recommended tether of 3.5"

Multiple float switches with pipe clamps are used for a variety of applications to empty/fill a tank or use as high/low level alarms.

Normally Closed (Pump Up):

Pump Switch / Top Float = Start/Stop Pump
Control Switch / Bottom Float = Low Alarm

Part No.	Model No.	Cable Length
Wide angle; 15 Amps, 120VAC 0.5HP		
FS15U120PB-10	A15WUPS1WP10	10'
FS15U120PB-20	A15WUPS1WP20	20'
FS15U120PB-30	A15WUPS1WP30	30'
Wide angle; 15 Amps, 240VAC 2.0HP		
FS15U240PB-10	A15WUPS2WP10	10'
FS15U240PB-20	A15WUPS2WP20	20'
FS15U240PB-30	A15WUPS2WP30	30'

For more information on installation, adjustment, repair & operation, visit Boshart Knowledge Base at

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