

FSC05NC, FSC05NO & FSC05NOC SERIES CONTROL SENSOR SWITCHES

The FSC05NC, FSC05NO and FSC05NOC series Control Switch is used for the activation of alarms and controls in environments with temperatures up to 140° F. This product can be used for a variety of applications, including but not limited to: septic tanks, sump pits, holding tanks, pump chambers, water tanks, and any other liquid tanks. Available only in 120/240VAC bare lead models.

The control switches are mechanically operated using a microswitch and are activated by the ball inside the float housing. For use as high level (normally open/empty tank) or low level (normally closed/ fill tank) configuration with multiple types of float attachments for mounting and various cable lengths.

NOTE: Check to make sure the correct control switch is being used for the application:

Normally Open (Pump Down) - Contacts are open while hanging down and will close on a rising liquid level. Typically used for high level alarms and empty tank applications.

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

Normally Open (Pump Down) or Normally Closed (Pump Up) - Can be used as a normally open switch (connect with black and white wires) or a normally closed switch (connect with red and white wires).



FSC05NOC wire connection

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

(2) Cable Type - SJ00W (UL/CSA), 18 gauge, 2-conductor, flexible, and water/oil resistant. Available only in 120/240VAC bare lead models.

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

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

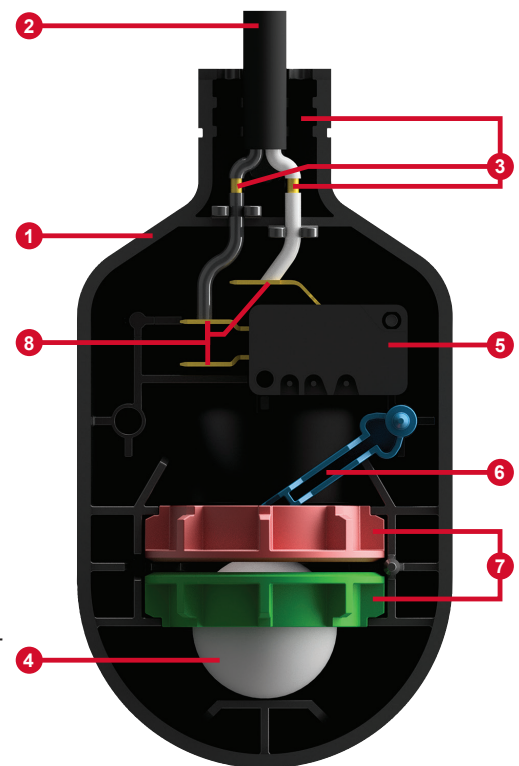
(5) Microswitch - Activated by the ball inside the float housing causing the contacts to open or close.

(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 - Narrow angle (20°) switching differential. Two optional collars are included to create the switching differentials.

(8) Innovative Mechanical Design - Using mechanically activated snap action contacts eliminates the 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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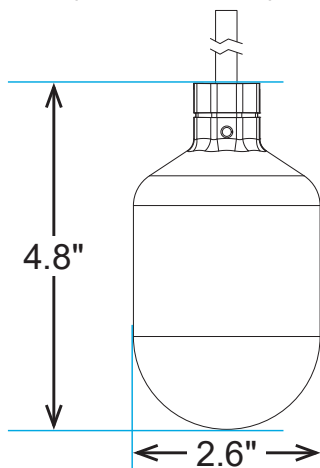
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SPECIFICATION:

- Primary Voltage: 120/240VAC
- Amperage: 5 Amps (standard)
- Float Housing Material: Polypropylene
- Float Housing Size: 2.6 inches (diameter) x 4.8 inches (length)
- Cable Type: SJOOW (UL/CSA), 18 gauge, 2-conductor, flexible, and water/oil resistant
- Connection Types: Bare Lead (120/240VAC)
- Operating Temperature: 0 - 140° F
- Switching Differential: 20° total (narrow angle)
- Switch Configuration: Single Pole, Single Throw (Pump Up, or Pump Down); Single Pole, Double Throw (Pump Up or Pump Down; both)
- Mounting Method(float attachment): Pipe Clamp, Stainless Steel
- Certifications: CSA (US and Canada)



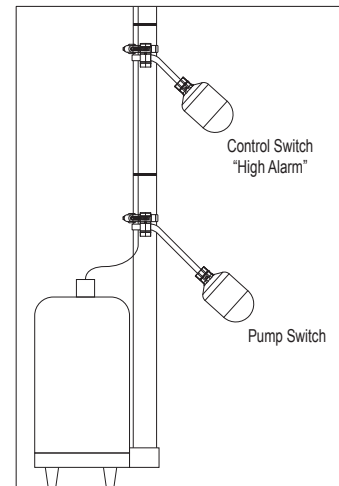
| Tether Length (inches) | 3.5" | 4" | 6" | 8" | 10" | 12" | 16" | 20" | 24" |
|---------------------------|----------------------|------|------|------|------|------|-----|-----|-----|
| Activation Range (inches) | NR = Not Recommended | | | | | | | | |
| Narrow Angle | 2.5" | 2.7" | 2.9" | 3.5" | 4.5" | 5.5" | 9" | 16" | NR |

CAUTION: USE AS GUIDE ONLY, ACTUAL RANGES MAY VARY
(Reference Only - Testing Must Be Performed for Actual Ranges)

Control Switches - minimum recommended tether of 3.5"

| Part No. | Model No. | Cable Length feet |
|--------------------------------------|-----------|-------------------|
| Pump Up, Narrow angle; 120/240 VAC | | |
| FSC05NC-10 | A5NLPS10 | 10' |
| FSC05NC-20 | A5NLPS20 | 20' |
| Pump Down, Narrow Angle, 120/240 VAC | | |
| FSC05NO-10 | A5NHPS10 | 10' |
| FSC05NO-15 | A5NHPS15 | 15' |
| FSC05NO-20 | A5NHPS20 | 20' |
| FSC05NO-30 | A5NHPS30 | 30' |
| FSC05NO-50 | A5NHPS50 | 50' |

EMPTY TANK (normally open example)



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 Open (empty):

Control Switch / Top Float = High Alarm

Pump Switch / Bottom Float = Start/Stop Pump

Normally Closed (fill):

Pump Switch / Top Float = Start/Stop Pump

Control Switch / Bottom Float = Low Alarm

| Part No. | Model No. | Cable Length feet |
|---|-----------|-------------------|
| Pump Up or Pump Down, Narrow Angle, 120/240 VAC | | |
| FSC05NOC-10 | A5NBPS10 | 10' |
| FSC05NOC-20 | A5NBPS20 | 20' |
| FSC05NOC-30 | A5NBPS30 | 30' |
| FSC05NOC-40 | A5NBPS40 | 40' |
| FSC05NOC-50 | A5NBPS50 | 50' |

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