

**Mechanically activated, narrow-angle float switch designed to activate pump control panels and alarms.**

## APPLICATIONS

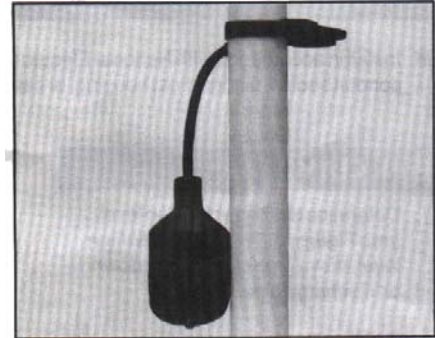
This narrow-angle sensing device is used to accurately monitor liquid levels in sewage and non-potable water applications. The SJE 3 SPDT control switch can be wired to work in either normally open or normally closed applications. It is not sensitive to rotation.

### Normally Open Wiring (high level)

The control switch turns on (closes) when the float tips slightly above horizontal signaling a high level, and turns off (opens) when the float drops slightly below horizontal.

### Normally Closed Wiring (low level)

The control switch turns on (closes) when the float tips slightly below horizontal signaling a low level, and turns off (opens) when the float tips slightly above horizontal.



## FEATURES

- ☐ Can be wired to work in either normally open or normally closed applications (Single Pole, Double Throw)
- ☐ Mechanically-activated, snap action contacts
- ☐ High impact, corrosion resistant, polypropylene float housing
- ☐ Not sensitive to rotation
- ☐ Control differential of 1.5 " (4cm) above or below horizontal
- ☐ UL Listed for use in non-potable water and sewage
- ☐ CSA Certified
- ☐ Two-year limited warranty

## OPTIONS

This switch is available:

- ☐ In standard cable lengths of 10, 15, 20, or 30 feet and 3, 5, 6, or 10 meters
- ☐ With two mounting options that allow for flexibility in installation:
  - Pipe Clamp:** for applications where the switch can be attached to a discharge pipe or similar mounting device.
  - Externally weighted:** for applications where the switch can be suspended from above.

## SPECIFICATIONS

**Cable:** flexible 18 gauge, 3 conductor (UL) SJOW, water-resistant (CPE)

**Float:** 2.74 inch diameter x 4.83 inch long (7.0cm x 12.3cm), high impact, Corrosion resistant polypropylene for use in sewage and non-potable water up to 140°F (60°C)

**Maximum Water Depth:** 30ft (9m), 13psi


**Electrical:** 5A, 125/250VAC, 50/60Hz

This switch is not recommended for controlling:


- ☐ Electric loads less than 100 mA, 12VAC
- ☐ Non-arcing electric loads

# Installation Instructions

**⚠ WARNING ELECTRICAL SHOCK HAZARD**  
 Disconnect power before installing or servicing this product. A qualified service person must install and service this product according to applicable electrical and plumbing codes.



**⚠ WARNING EXPLOSION OR FIRE HAZARD**  
 Do not use this product with flammable liquids. Do not install in hazardous locations as defined by National Electrical Code, ANSI/NFPA 70.



☐ Install in accordance with National Electric Code, ANSI/NFPA 70 to prevent moisture from entering or accumulating within boxes, conduit bodies, fittings, float housing, or cable.

## PIPE CLAMP

1. Determine desired activation level (see Figure A). To adjust activation level, move pipe clamp up or down on discharge pipe.
2. Tighten pipe clamp around discharge pipe at desired activation level. Keep the switch cable between the strap and pipe to prevent slippage (see Figure B).
3. To lock releasable tab, run remaining strap between releasable tab and clamp head. Pull tightly.
4. To eliminate obstruction to switch, tuck strap back through clamp head (see Figure B).
5. Bring cable leads back to control device and wire according to Figure C.
6. Check installation. Allow system to cycle to insure proper operation.

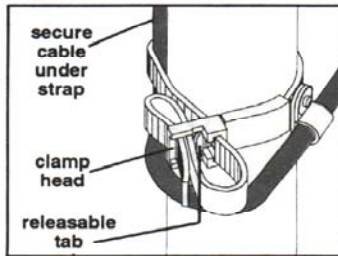
## CABLE WEIGHT

1. Suspend switch and cable weight at desired activation level (see Figure D).
2. Bring cable leads back to control device and wire according to Figure C.
3. Check installation. Allow system to cycle to insure proper operation.

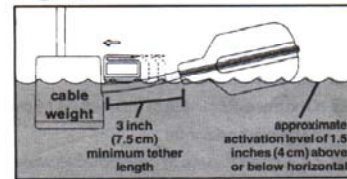
Cable weight is attached to switch cable at the factory. To adjust:

1. Release clip.
2. Adjust cable weight to desired position.
3. Lay switch cable weight channel.
4. Align clip with weight channel and slide towards switch cable (see Figure D).
5. Snap clip snugly up to cable, moving clip to tightest possible position.

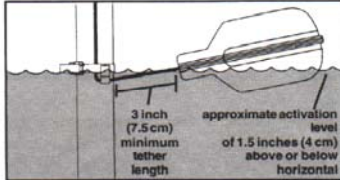
**Figure B**



**Figure D**



**Figure A**



**Figure C - Wiring Diagrams**

