

# SENSOR FLOAT® CONTROL SWITCH

Mercury-Activated, Narrow-Angle Float Switch Designed to Activate Pump Control Panels and Alarms

The Sensor Float® mercury-activated, narrow-angle control switch is designed to accurately monitor liquid levels and activate control pump control panels and alarms in:

- non-potable water applications
- sewage applications

The Sensor Float® control switch is not sensitive to rotation and is suitable for use with intrinsically safe circuits. Contact SJE Rhombus regarding specific intrinsically safe applications.

## Normally Open Model (high level)

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

## Normally Closed Model (low level)

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

## FEATURES

- Suitable for use with intrinsically safe circuits
- Not sensitive to rotation
- Control differential of .5 inches (1 cm) above or below horizontal

## OPTIONS

### This switch is available:

- for normally open (high level) applications or normally closed (low level) applications
- in standard cable lengths of 10, 15, 20, or 30 feet and 3, 5, 6, or 10 meters (longer lengths available)
- with three mounting options that allow for flexibility in installation:

**Mounting Clamp:** for applications where the switch can be attached to a discharge pipe or similar mounting device

**Internally Weighted:** for applications where the switch can be suspended from above

**Externally Weighted:** for applications where the switch can be suspended from above



UL Listed for Water & Sewage



**SENSOR FLOAT® CONTROL SWITCH** - Mercury-activated, narrow-angle float switch designed to activate pump control panels and alarms.

NORMALLY OPEN		NORMALLY CLOSED		Shipping Weight	List Price
Part #	Description	Part #	Description		
1002108	10PCNO	1002111	10PCNC	1.29 lbs.	\$81.00
1002072	10SWINO	1002075	10SWINC	1.85 lbs.	\$87.00
1002143	10SWENO	1002146	10SWENC	2.66 lbs.	\$96.00
1002117	15PCNO	1002120	15PCNC	1.64 lbs.	\$87.00
1002080	15SWINO	1002083	15SWINC	2.22 lbs.	\$93.00
1002152	15SWENO	1002155	15SWENC	2.90 lbs.	\$102.00
1002125	20PCNO	1002128	20PCNC	1.99 lbs.	\$93.00
1002089	20SWINO	1002092	20SWINC	2.59 lbs.	\$99.00
1002161	20SWENO	1002164	20SWENC	3.27 lbs.	\$108.00
1002134	30PCNO	1002137	30PCNC	2.13 lbs.	\$107.00
1002098	30SWINO	1002101	30SWINC	3.28 lbs.	\$113.00
1002170	30SWENO	1002173	30SWENC	3.88 lbs.	\$122.00

PC = Pipe Clamp WI = Weighted Internally WE = Weighted Externally NO = Normally Open NC = Normally Closed

NOTE: Descriptions are grouped by cable length measured in feet (10, 15, 20, 30).

PACKAGING: Bagged - Standard

ADDITIONAL CABLE: Longer cable lengths available.

### SPECIFICATIONS

**CABLE:** flexible 18 gauge, 2 conductor (UL, CSA) SJOW, water-resistant (CPE) jacket

**FLOAT:** 3.38 inch diameter x 4.55 inch long (8.58 cm x 11.56 cm), high impact, corrosion resistant, PVC housing for use in sewage and non-potable water up to 140°F (60°C)

**MAXIMUM WATER DEPTH:** 30 feet (9 meters), 13 psi

**MERCURY SWITCH:** single pole, single throw, mercury-to-mercury contacts, hermetically sealed in a steel capsule and epoxy sealed in the float housing

**ELECTRICAL:** 5 amp 120/230 VAC, 50/60 Hz

**NOTE:** Suitable for use with intrinsically safe circuits.

Contact SJE Rhombus regarding specific intrinsically safe applications.

### OTHER INFORMATION

#### NORMALLY OPEN (HIGH LEVEL) OPERATION

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

#### NORMALLY CLOSED (LOW LEVEL) OPERATION

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