

# SENSOR FLOAT® Control Switch

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

This narrow-angle sensing device is used to accurately monitor liquid levels in sewage and non-potable water 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.
- UL Listed for use in non-potable water and sewage.
- CSA Certified.
- Three-year limited warranty.



## SPECIFICATIONS

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

**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 (90 kPa)

**MERCURY TILT 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

## 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.

**SJE  
Rhombus®**

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## ORDERING INFORMATION

Normally Open		Normally Closed		List Price	Shipping Weight
Part #	Description	Part #	Description		
1002108	10PCNO	1002111	10PCNC	\$39.90	1.29 lbs.
1002072	10SWINO	1002075	10SWINC	\$43.07	1.85 lbs.
1002143	10SWENO	1002146	10SWENC	\$47.84	3.26 lbs.
1002117	15PCNO	1002120	15PCNC	\$43.20	1.64 lbs.
1002080	15SWINO	1002083	15SWINC	\$46.39	2.22 lbs.
1002152	15SWENO	1002155	15SWENC	\$51.17	3.50 lbs.
1002125	20PCNO	1002128	20PCNC	\$46.53	1.99 lbs.
1002089	20SWINO	1002092	20SWINC	\$49.75	2.59 lbs.
1002161	20SWENO	1002164	20SWENC	\$54.51	3.87 lbs.
1002134	30PCNO	1002137	30PCNC	\$53.80	2.13 lbs.
1002098	30SWINO	1002101	30SWINC	\$56.97	3.28 lbs.
1002170	30SWENO	1002173	30SWENC	\$61.74	4.48 lbs.

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).

## OPTIONS

### PACKAGING

**Bagged** - Standard  
**Boxed** - Specify and add \$1.80 to list price.  
**Bulk** - Specify and deduct 20¢ from list price.

**No Mounting** - Specify and deduct 60¢ from mounting clamp list price.

### ADDITIONAL CABLE

Additional cable length over 30 feet is available at 80¢ per foot (list price).

UL Listed for Water & Sewage



## 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.

**SJE Rhombus**

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**Call or fax your order!**

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