

# 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.
- Five-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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[www.sjerhombus.com](http://www.sjerhombus.com)

**G.15**

California Prop 65 requires the following:  WARNING Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**SEE REVERSE SIDE FOR ORDERING INFORMATION.**

**SEE PRICE BOOK FOR LIST PRICE.**

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## ORDERING INFORMATION

Normally Open		Normally Closed		Shipping Weight
Part #	Description	Part #	Description	
1002108	10PCNO	1002111	10PCNC	1.29 lbs.
1002072	10SWINO	1002075	10SWINC	1.85 lbs.
1002143	10SWENO	1002146	10SWENC	2.66 lbs.
1002117	15PCNO	1002120	15PCNC	1.64 lbs.
1002080	15SWINO	1002083	15SWINC	2.22 lbs.
1002152	15SWENO	1002155	15SWENC	2.90 lbs.
1002125	20PCNO	1002128	20PCNC	1.99 lbs.
1002089	20SWINO	1002092	20SWINC	2.59 lbs.
1002161	20SWENO	1002164	20SWENC	3.27 lbs.
1002134	30PCNO	1002137	30PCNC	2.13 lbs.
1002098	30SWINO	1002101	30SWINC	3.28 lbs.
1002170	30SWENO	1002173	30SWENC	3.88 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).

SEE PRICE BOOK FOR LIST PRICE.

## 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.

## OPTIONS

### PACKAGING

**Bagged** - standard

**Boxed** - optional

**Bulk** - optional

### ADDITIONAL CABLE

Longer cable lengths available. Please call for details.

UL Listed for  
Water & Sewage



## 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.**

www.sjerrhombus.com  
customer.service@sjerinc.com

**Call or fax your order!**

1-888-DIAL-SJE (1-888-342-5753) • Fax 218-847-4617

Product offering and pricing are subject to change without notice.  
Please visit [www.sjerrhombus.com](http://www.sjerrhombus.com) for the most current information.