

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 float tips slightly **above** horizontal signaling a high level, and turns off (opens) when the float drops slightly below horizontal.

Normally Closed Model (low level)

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



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PRICING/ORDERING INFORMATION

Normally Open		Normally Closed		Suggested List Price	Shipping Weight
Part #	Description	Part #	Description		
1002108	10PCNO	1002111	10PCNC	\$31.54	1.29 lbs.
1002072	10SWINO	1002075	10SWINC	\$34.06	1.85 lbs.
1002143	10SWENO	1002146	10SWENC	\$37.83	3.26 lbs.
1002117	15PCNO	1002120	15PCNC	\$34.16	1.64 lbs.
1002080	15SWINO	1002083	15SWINC	\$36.69	2.22 lbs.
1002152	15SWENO	1002155	15SWENC	\$40.47	3.50 lbs.
1002125	20PCNO	1002128	20PCNC	\$36.80	1.99 lbs.
1002089	20SWINO	1002092	20SWINC	\$39.33	2.59 lbs.
1002161	20SWENO	1002164	20SWENC	\$43.10	3.87 lbs.
1002134	30PCNO	1002137	30PCNC	\$42.54	2.13 lbs.
1002098	30SWINO	1002101	30SWINC	\$45.06	3.28 lbs.
1002170	30SWENO	1002173	30SWENC	\$48.83	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 - deduct 60¢ from mounting clamp list price.

ADDITIONAL CABLE

Additional cable length over 30 feet is available at 70¢ per foot (list price).



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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.



www.sjrhombus.com
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Call or fax your order!

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

CONTROL SWITCHES (MERCURY)