

# SENSOR FLOAT® MINI CONTROL SWITCH

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

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

- non-potable water applications
- sewage applications

This control switch is not sensitive to rotation.

## 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.

Contact SJE Rhombus regarding intrinsically safe applications.

## FEATURES

- Designed for use in confined spaces
- 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 two 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

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



UL Listed for Water & Sewage



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

NORMALLY OPEN		NORMALLY CLOSED		Shipping Weight
Part #	Description	Part #	Description	
1002181	10MPCNO	1002184	10MPCNC	1.20 lbs.
1002206	10MWENO	1002209	10MWENC	2.58 lbs.
1002187	15MPCNO	1002190	15MPCNC	1.57 lbs.
1002212	15MWENO	1002215	15MWENC	2.81 lbs.
1002193	20MPCNO	1002196	20MPCNC	1.90 lbs.
1002218	20MWENO	1002221	20MWENC	3.14 lbs.
1002199	30MPCNO	1002202	30MPCNC	2.68 lbs.
1002224	30MWENO	1002227	30MWENC	3.96 lbs.

PC = Pipe Clamp 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:** 2.81 inch diameter x 3.42 inch long (7.14 cm x 8.68 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-metal contacts, hermetically sealed in a steel capsule and epoxy sealed in the float housing

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

This switch is not recommended for controlling:

- electric loads less than 30 milliamps, 12 VAC
- non-arcing electric loads

**NOTE:** Contact SJE Rhombus regarding 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** horizontal.

### 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.