

# SJE MILLIAMPMASTER™ Control Switch

**Mechanically-activated control switch designed to activate low current control panels and alarms.**

This wide-angle or narrow-angle control switch offers reliable low current control for AC and DC applications in potable water, wastewater, and sewage. The internal switching mechanism has sealed gold cross-point contacts for reliable low current operation. Common applications include PLC (programmable logic controller) panels, IS panels with intrinsically safe barriers, low current solar applications, and other low current control panels and alarms applications.

The wide-angle version activates/deactivates approximately 4" above and below horizontal with a 3.5" tether. The narrow angle version activates/deactivates at approximately 1.5" above and below horizontal with a 3.5" tether.

## Normally Open Model (high level)

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

## Normally Closed Model (low level)

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



## FEATURES

- Passed NSF Standard 61 protocol by an approved Water Quality Association laboratory.
- Low current, non-arching applications down to 0.160 mA at 125 VAC.
- Mechanically-activated, snap action contacts.
- High impact, corrosion resistant polypropylene float housing.
- Not sensitive to rotation.
- UL Listed for use in non-potable water and sewage.
- CSA Certified.
- Three-year limited warranty.



## OPTIONS

**This switch is available:**

- for normally open (high level) applications or normally closed (low level) applications.
- with narrow or wide-angle pumping ranges.
- in standard cable lengths of 10, 15, 20, or 30 feet.
- 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.

## SPECIFICATIONS

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

**FLOAT:** 2.74 inch diameter x 4.83 inch long (7.0 cm x 12.3 cm), high-impact, corrosion resistant, polypropylene housing for use in sewage and water up to 140°F (60°C)

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

### ELECTRICAL:

#### 125 VAC

**Maximum Electrical Load:**  
0.1 amps

**Minimum Electrical Load:**  
0.160 milliamps

#### 30 VDC

**Maximum Electrical Load:**  
0.1 amps

**Minimum Electrical Load:**  
0.160 milliamps

#### 5 VDC

**Minimum Electrical Load:**  
1 milliamps

CONTROL SWITCHES  
(MECHANICAL)

# SJE Rhombus®

PO Box 1708, Detroit Lakes, MN 56502  
1-888-DIAL-SJE • 1-218-847-1317  
1-218-847-4617 Fax  
email: [sje@sjerhombus.com](mailto:sje@sjerhombus.com)  
[www.sjerhombus.com](http://www.sjerhombus.com)