

# SJE MILLIAMPMASTER™ CONTROL SWITCH

Mechanically-Activated Control Switch Designed to Activate Low Current Control Panels and Alarms

The SJE MilliAmpMaster™ mechanically-activated, wide-angle or narrow-angle control switch offers reliable low current control for AC and DC applications to activate pump control panels and alarms in:

- water applications
- wastewater applications
- PLC panels (programmable logic controllers)
- IS panels (with intrinsically safe barriers)
- low current solar applications
- other low current applications

The wide-angle version activates/deactivates approximately 4" (10.16 cm) above and below horizontal with a 3.5" (9 cm) tether. The narrow angle version activates/deactivates at approximately 1.5" (3.81 cm) above and below horizontal with a 3.5" (9 cm) tether. It is not sensitive to rotation.

### Normally Open Model (high level)

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

### Normally Closed Model (low level)

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

## FEATURES

- 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
- Blue colored cap for easy identification of SJE MilliAmpMaster™ control switch

## OPTIONS

### This switch is available:

- for normally open (high level) applications or normally closed (low level) applications
- with narrow-angle or wide-angle pumping ranges
- 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



**SJE MILLIAMPMAS<sup>TM</sup> CONTROL SWITCH** - Mechanically-activated control switch designed to activate low current control panels and alarms.

NARROW ANGLE VERSIONS				
NORMALLY OPEN		NORMALLY CLOSED		Shipping Weight
Part #	Description	Part #	Description	
1018838	10MANPCNO	1018839	10MANPCNC	1.04 lbs.
1018840	10MANWENO	1018841	10MANWENC	2.16 lbs.
1018842	15MANPCNO	1018843	15MANPCNC	1.37 lbs.
1018844	15MANWENO	1018845	15MANWENC	2.45 lbs.
1018846	20MANPCNO	1018847	20MANPCNC	1.69 lbs.
1018848	20MANWENO	1018849	20MANWENC	2.70 lbs.
1018850	30MANPCNO	1018851	30MANPCNC	2.34 lbs.
1018852	30MANWENO	1018853	30MANWENC	3.43 lbs.

WIDE ANGLE VERSIONS				
NORMALLY OPEN		NORMALLY CLOSED		Shipping Weight
Part #	Description	Part #	Description	
1015725	10MAPCNO	1016180	10MAPCNC	1.04 lbs.
1016181	10MAWENO	1016182	10MAWENC	2.16 lbs.
1016184	15MAPCNO	1016185	15MAPCNC	1.37 lbs.
1016186	15MAWENO	1016187	15MAWENC	2.45 lbs.
1016211	20MAPCNO	1016212	20MAPCNC	1.69 lbs.
1016213	20MAWENO	1016214	20MAWENC	2.70 lbs.
1016215	30MAPCNO	1016216	30MAPCNC	2.34 lbs.
1016217	30MAWENO	1016218	30MAWENC	3.43 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).

## 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: 1 amp

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

## OTHER INFORMATION

### NORMALLY OPEN (HIGH LEVEL) OPERATION

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

### NORMALLY CLOSED (LOW LEVEL) OPERATION

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