

# Control Duty Narrow-Angle Low Current Mechanical

## Low Current Mechanically-Activated, Narrow-Angle Float 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 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" (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 1 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 control switch

## 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 15, 20, or 30 feet and 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



## CONTROL DUTY NARROW-ANGLE LOW CURRENT MECHANICAL CONTROL SWITCH

| Normally Open |             | Normally Closed |             | Shipping Weight |
|---------------|-------------|-----------------|-------------|-----------------|
| Part #        | Description | Part #          | Description |                 |
| 1031500       | 15CSLPCNO   | 1031501         | 15CSLPCNC   | 1.37 lbs.       |
| 1031502       | 15CSLCWENO  | 1031503         | 15CSLCWENC  | 2.45 lbs.       |
| 1031504       | 20CSLPCNO   | 1031505         | 20CSLPCNC   | 1.69 lbs.       |
| 1031506       | 20CSLCWENO  | 1031507         | 20CSLCWENC  | 2.70 lbs.       |
| 1031508       | 30CSLPCNO   | 1031509         | 30CSLPCNC   | 2.34 lbs.       |
| 1031510       | 30CSLCWENO  | 1031511         | 30CSLCWENC  | 3.43 lbs.       |

CS = Control Switch LC = Low Current PC = Pipe Clamp WE = Weighted Externally NO = Normally Open NC = Normally Closed  
**NOTE:** Descriptions are grouped by cable length measured in feet (15, 20, 30).

SEE PRICE BOOK FOR LIST PRICE.

### 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:**

1 milliamp

##### 30 VDC

**Maximum Electrical Load:**

0.1 amps

**Minimum Electrical Load:**

1 milliamp

##### 4 VDC

**Minimum Electrical Load:**

1 milliamp

### OPTIONS

#### PACKAGING

**Bagged** - standard

**Boxed** - optional

**Bulk** - optional; must be ordered in master carton quantities.

Please contact customer service for details/pricing.

#### ADDITIONAL CABLE

Longer cable lengths available. Please call for details.

### 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.



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