

## Installation and Operations Manual Series CLS 300

### **Installation**

1. Attach proper mounting bracket to the switchbox housing.
2. Engage switch box shaft to top of actuator shaft.
3. Attach bracket to actuator (finger tight only).
4. Cycle the actuator; switchbox and actuator will self-align.
5. Tighten bracket to actuator.

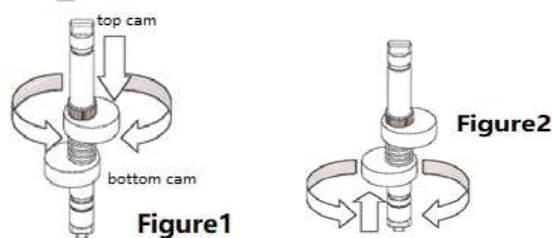
### **Adjusting the switches**

#### **Figure 1 CLOCKWISE (VALVE CLOSED)**

1. Disconnect power prior to opening lid.
2. Loosen switchbox cover screws and remove cover.
3. Rotate actuator to full clockwise position.
4. Push down top cam and turn it clockwise until switch is activated. Release the cam and it will engage on the splined retainer. The spring will maintain cam engagement.

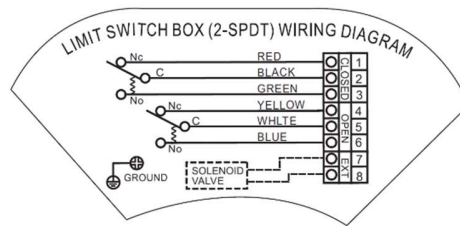
#### **Figure 2 CLOCKWISE (VALVE OPEN)**

1. Rotate actuator to full counter-clockwise position.
2. Push up bottom cam and turn it counter-clockwise until switch is activated. Release the cam and it will engage on the splined retainer. The spring will maintain cam engagement.
3. Cycle actuator several times to verify adjustment.
4. Place the cover on switchbox and tighten in cross pattern. *Note: ensure that the cover's O-ring seal is seated in the O-ring groove.*



## Electrical Wiring

1. Remove switch box cover.
2. Remove protection plug(s) from conduit entries and install conduit or other approved connection means.
3. Engage wires in terminal strip using a small screwdriver (1/2" blade). *Note: terminals 1, 2, & 3 are for the top switch and terminals 4, 5, & 6 are for the bottom switch. Wiring Diagram is on the inside of the switchbox cover.*



### WARNING:

**To maintain NEMA 4, 4X, IP67 weather protection, any unused conduit entry must be closed with appropriate conduit plug. Conduit plugs supplied with switchbox are for transit purposes only.**

## Visual Indicator setting

1. Rotate actuator to closed.
2. Loosen the four screws securing the plastic indicator dome and rotate it to show "CLOSE". *Note: the dome and rotor can be removed and rotated 1/4 turn for OPEN-CLOSE visual indication from the end switchbox.*

## SPDT Mechanical Switch Specifications

- Type: Dry contact snap action roller lever arm
- Contact: Form-C
- 125-250 VAC, 16Amp
- 24 VDC, 3.1Amp