



52 Series LIMIT SWITCH *Proximity Reed Switch* Installation Manual

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 COUNTER-CLOCKWISE (VALVE OPEN)

1. Rotate actuator to full counter-clockwise position.
2. Pull 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 switch box and tighten in cross pattern. *NOTE: ensure that the cover's o-ring seal is seated in the o-ring groove.*

Figure 1

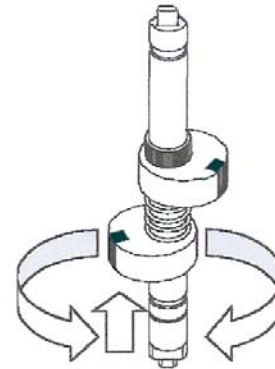
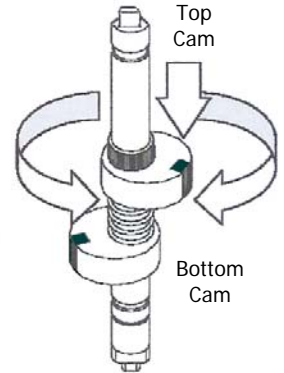


Figure 2

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 ($\frac{1}{8}$ " 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 IP67 weather protection any unused conduit entry must be closed with appropriate conduit plug. Conduit plugs supplied with the switch box are for transit purposes only.

3-D VISUAL INDICATOR SETTING

1. Rotate actuator to closed.
2. Loosen the four screws securing the plastic indicator dome and rotate it to show 'CLOSED'. *NOTE: the dome and rotor can be removed and rotated $\frac{1}{4}$ turn for OPEN-CLOSE visual indication from the end of the switchbox.*

SPST PROXIMITY SWITCH SPECIFICATIONS

Type: Dry contact reed switch
Contacts: Form-A
Maximum switching power: 40 W
Maximum switching current: 2.0 A
Maximum carrying current: 3.0 A
Maximum switching voltage: 400 VDC / 400 VAC
Initial contact resistance: 0.080 Ohms
Maximum operating time: 2.5 msec
Operating temperature range: -40C to +125C
Approvals: UL and CSA Recognized Component

SPDT PROXIMITY SWITCH SPECIFICATIONS

Type: Dry contact reed switch
Contacts: Form-C
Maximum switching power: 20 W
Maximum switching current: 1.0 A
Maximum carrying current: 2.0 A
Maximum switching voltage: 150 VDC / 150 VAC
Initial contact resistance: 0.100 Ohms
Maximum operating time: 2.0 msec
Operating temperature range: -40C to +125C
Approvals: UL and CSA Recognized Component

CAUTION: Reed proximity switches sense magnetic fields and may accidentally trip if magnets are within $\frac{1}{2}$ " from the sensing surface

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