

Plug-in Limit Switch Installation and Operating Instructions

Bulletin Number 802T



ATTENTION: To avoid electrical shock and unintended operation of equipment, disconnect all power to the limit switch and the controlled equipment before proceeding with any repair or adjustment of the limit switch.

Overview

Position the conduit that leads into the switch so that any fluid inside the conduit does not drain into the switch enclosure. Apply sealant compound to the conduit threads to help prevent against the entrance of fluids through the threads.

You can mount the base by either of two methods:

1. Two #10-32 tapped holes are provided for rear mounting.

IMPORTANT Verify the screws that are used for rear mounting are not so long as to interfere with the screws that are used to secure the front to the base.

2. Two clearance holes for #10 screws are provided for front mounting.

Wiring

IMPORTANT The contacts in each switching element must have the same polarity. The circuit diagram is shown on the nameplate.

The pressure type connector terminals in the base accept 4 mm² (12 AWG) and smaller solid or stranded wire. For proper tightening, use nothing smaller than 1 mm² (18 AWG). Before inserting the wire under the pressure plates, strip the insulation approximately 9.5 mm (0.375 in). Tighten all pressure plate terminal screws, whether used or not, to avoid interference with the screw cover.

A grounding screw is enclosed in the terminal base near the conduit opening. If the grounding screw has a self-lifting pressure plate and wire barrier, the proper installation position of the ground wire is between the pressure plate and the wire barrier in a direction parallel to the edge of the casting. Be sure that the ground wire does not interfere with the gasket or the switch portion of the device.

After completing the wiring, check that all wires are in the wiring cavity of the terminal block so they do not interfere with the switch when it is plugged into the terminal block. Recheck all terminal wiring screws for tightness.



For switches that have been wired at the factory, check the wire color and their position in the terminal block for proper circuit hookup.

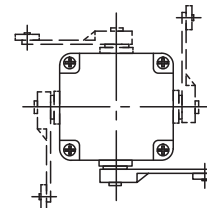
When the switch has been plugged into the terminal block, securely tighten the two cover screws to compress the body gasket.

Actuator Head Positioning

As shown in [Figure 1](#), you can place the actuator head in any of four positions on the switch body:

1. Loosen the four captive head screws.
2. Place the head in the desired position.
3. Securely retighten the four screws.

Figure 1 - Actuator Head Position

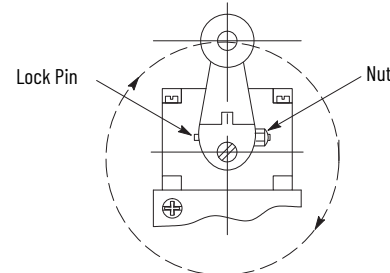


Lever Positioning

As shown in [Figure 2](#), the lever on rotary actuated devices is adjustable to any position through 360° around the shaft.

1. Loosen the nut.
2. Move lever to desired position.
3. Securely retighten the nut.

Figure 2 - Lever Position



Change Direction of Actuation

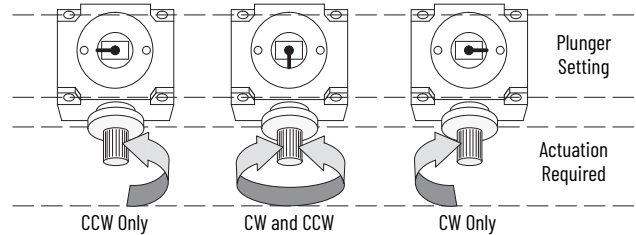
You can adjust the switch action of most lever operated limit switches to operate with a shaft movement of either clockwise, counterclockwise, or both directions. The maintained and neutral position style of devices operate in both directions and cannot be changed.

To change actuation direction:

IMPORTANT You must perform these procedures in a clean environment to avoid introduction of foreign material into the operating mechanism.

1. Loosen the four head mounting screws and remove the operating head from the switch body.
2. Locate the plunger on the underside of the operating head.
3. Pull the plunger outward and rotate it in steps of 90° to provide the operating mode desired. [Figure 3](#) shows the respective settings.
4. Verify that the plunger is pushed back inward and the O-ring is properly seated before the operating head is reattached to the switch body.
5. Securely retighten the operating head mounting screws to approximately 1.36...2.03 N•m (12...18 lb•in).
6. Check for the desired actuation mode.

Figure 3 - Actuation Direction



Renewal Parts

If renewal parts or additional lubricant is required, order by catalog number and series letter as it appears on the nameplate of the part.

Waste Electrical and Electronic Equipment (WEEE)







At the end of life, this equipment should be collected separately from any unsorted municipal waste.

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Rockwell Otomasyon Ticaret A.Ş. Kar Plaza İş Merkezi E Blok Kat:6 34752, İçerenköy, İstanbul, Tel: +90 (216) 5698400 EEE Yönetmeliğine Uygundur

Connect with us.    

rockwellautomation.com expanding human possibility®

AMERICAS: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204-2496 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444

EUROPE/MIDDLE EAST/AFRICA: Rockwell Automation NV, Pegasus Park, De Kleetlaan 12a, 1831 Diegem, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640

ASIA PACIFIC: Rockwell Automation, Level 14, Core F, Cyberport 3, 100 Cyberport Road, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846



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