

Plug-in Limit Switch with Indicating Light

Bulletin Number 802T



ATTENTION: To avoid electrical shock and/or 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.

These instructions cover the style of limit switch, which contains an indicating light. This light can be wired to provide a visual indication of switch contact action.

The switch is available with either a 120V AC lamp circuit or a 240V AC lamp circuit. The rated voltage of each device is displayed on the switch cover inside the enclosure.

The lamp in this device cannot be replaced separately. If lamp replacement is necessary, you must order a new switch module and lamp assembly as a renewal part.



ATTENTION: If the switch is used with solid-state or other sensitive devices, leakage current can cause false operation. Approximate leakage current: 0.002 Amps with 120V indicating lights and 0.005 Amps with 240V indicating lights.

Mounting

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:

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

IMPORTANT Be sure 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.

- 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.

You must wire the indicating light to a power source. You must provide lead wires to connect to terminals 5 and 6 in the terminal block. The other ends of these leads are connected to the points in the circuit that provide the desired indicating function.

If the indicating light is to be connected internally across the limit switch terminals, always connect the indicating lamp lead wires to the same set of terminals used for the load. When connected across the normally open terminals 1 and 2, the light is on when the limit switch is in its unoperated state. When connected across the normally closed terminals 3 and 4, the light is off when the limit switch is in its unoperated state. See [Figure 1](#) for typical circuit configurations.

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.



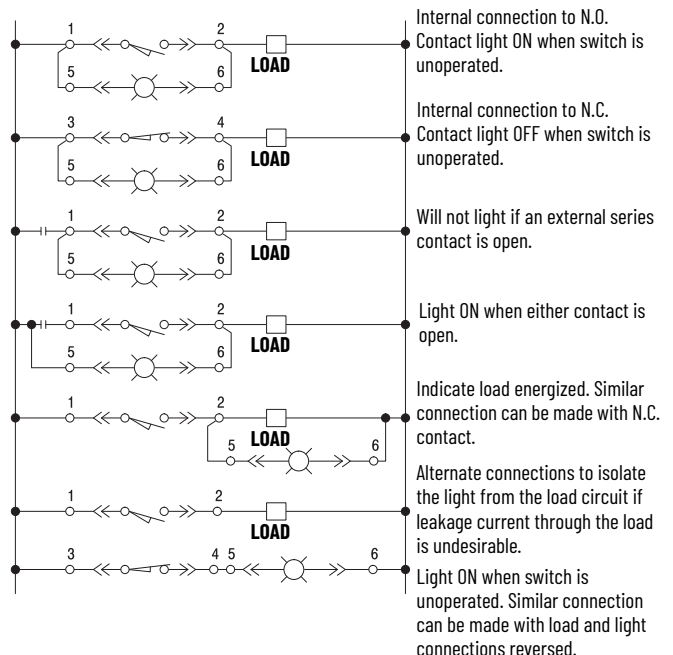
For switches that have been wired at the factory, check the wire color and their position in the terminal block for proper circuit hookup.

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

Figure 1 - Typical Indicating Light Circuits



Numbers correspond to terminal block markings.

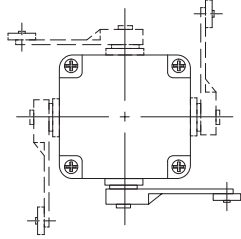


Actuator Head Positioning

As shown in [Figure 2](#), you can place the actuator head in any of four positions on the switch body:

- Loosen the four captive head screws.
- Place the head in the desired position.
- Securely retighten the four screws.

Figure 2 - Actuator Head Position

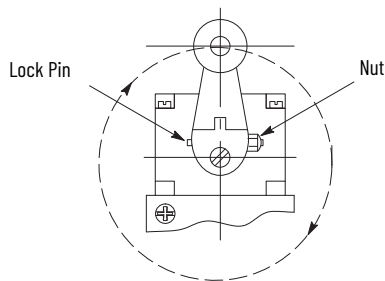


Lever Positioning

As shown in [Figure 3](#), the lever on rotary actuated devices is adjustable to any position through 360° around the shaft.

- Loosen the nut.
- Move lever to desired position.
- Securely retighten the nut.

Figure 3 - Lever Position



Changing Direction of Actuation

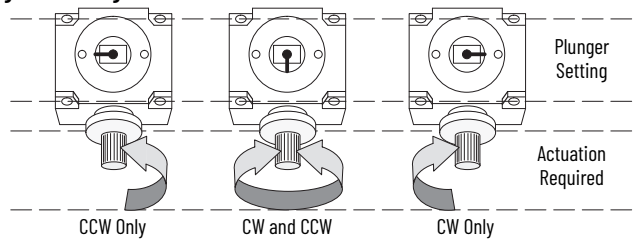
You can adjust the switch action of most lever operated limit switches to operate with a shaft movement of either clockwise, counterclockwise, or both directions. The maintained and neutral position style of devices operate in both directions and cannot be changed.

To change actuation direction:

IMPORTANT You must perform these procedures in a clean environment to avoid introduction of dirt 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. The respective settings are shown in [Figure 4](#).
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 N•m (12...18 lb•in).
6. Check for the desired actuation mode.

Figure 4 - Plunger Position



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)







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