

# Installation Instructions

Original Instructions

## Two and Four-Circuit Standard and Two-Circuit Corrosion Resistant Limit Switch

Bulletin Numbers 802M and 802MC

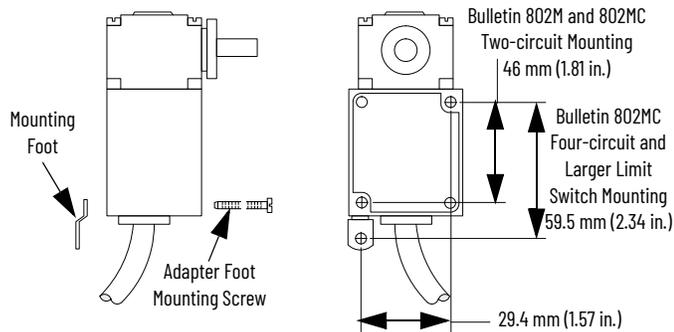
### Mounting

Two clearance holes for #10 screws are provided for front mounting. Use the adapter foot included with the two-circuit standard limit switch if you desire to mount the switch to the dimensions of a four-circuit or larger size limit switch.

1. Place the adapter foot end with the tapped hole into the rectangular recess at the lower rear corner of the switch.
2. Securely tighten the adapter foot with the mounting screw that is provided to approximately 3.61 N•m (32 lb•in). Make sure that the exposed end of the adapter foot is flush with the rear surface of the switch. See [Figure 1](#).

To be compatible with the exposed metal parts of the corrosion-resistant version (Bulletin 802MC), use Type 316 stainless steel mounting hardware.

Figure 1



### Wiring

**IMPORTANT** You must wire the contacts in each switching element with the same polarity.

Bulletin 802M and Bulletin 802MC limit switches are prewired and sealed at the factory.

### Optional Wiring Formats



See the wiring diagram on the nameplate for proper circuit hookup.

Some switches are equipped with a mini-type plug. If the mating cord (not supplied by Rockwell Automation) contains a green lead, it must be permanently reidentified with a color other than green to guard against its use as an equipment grounding conductor.

Some switches are equipped with 120V AC or 240V AC neon indicator lights. One side of the light is wired to either the normally open (LF) or the normally closed (LC) contacts. The other side of the indicating light is available through an extra cable lead or mini-type connector pin. This permits wiring of the indicator lights in parallel with the load controlled by the limit switch.

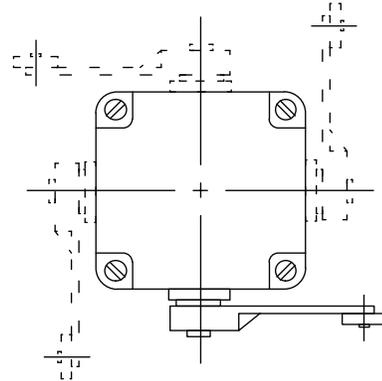
**IMPORTANT** Depending upon circuit wiring, leakage current can cause false operation if used with solid-state or other sensitive devices. Approximate leakage current is 0.002 A with 120V AC pilot light and 0.005 A with 240V AC pilot light.

The pilot light is prewired and permanently sealed; the lamp cannot be replaced.

### Actuator Head Positioning

All actuator head styles can be placed 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 to approximately 1.24 N•m (11 lb•in).

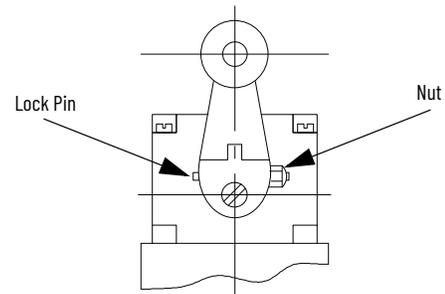


### Lever Positioning

The lever that is used with rotary actuated devices is adjustable to any position through 360° around the shaft.

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

Contact your local Allen-Bradley distributor or Rockwell Automation sales office for a complete selection of operating levels.

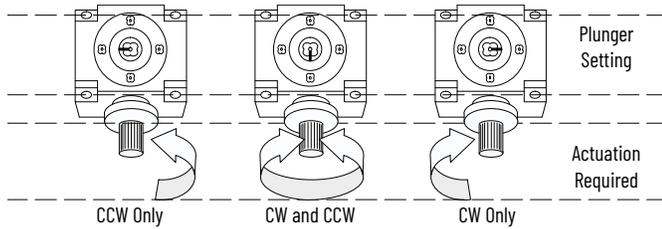


## Change Direction of Actuation

The switch action of spring return, rotary actuated devices can be set to operate with clockwise only, counterclockwise only, or clockwise and counterclockwise shaft movement.

1. To change the direction of actuation, loosen the four head mounting screws.
2. Remove the operating head from the switch body.
3. Locate the plunger on the underside of the operating head. Pull it outward and rotate it in steps of 90° to provide the operating mode desired. The respective settings are shown in [Figure 2](#).
4. Push the plunger back inward before reattaching the operating head to the switch body.
5. Securely retighten the operating head mounting screws to approximately 1.24 N•m (11 lb•in). Check for the desired actuation mode.

Figure 2



## Renewal Parts

You can order the switch body or operating head as a renewal part. Order by catalog number and series letter as it appears on the nameplate of that part. Make sure the rubber ring seal, provided with switch body, is properly installed between the switch body and the operating head.

## Specifications

| Attribute                            | Value                                          |                                                |
|--------------------------------------|------------------------------------------------|------------------------------------------------|
|                                      | Two-circuit                                    | Four-circuit                                   |
| Electrical Ratings                   | NEMA A600 with cable                           | NEMA B300 with cable                           |
|                                      | NEMA A300 with mini-type receptacle option     | NEMA B300 with mini-type receptacle option     |
|                                      | 120V AC with LF or LC indicator light option   | 120V AC with LF or LC indicator light option   |
|                                      | 240V AC with N5F or N5C indicator light option | 240V AC with N5F or N5C indicator light option |
| Enclosure Types                      |                                                |                                                |
| Bulletin 802M (Standard)             | 1, 4, 6P, 13                                   |                                                |
| Bulletin 802MC (Corrosion-resistant) | 1, 4, 4X, 6P, 13                               |                                                |
| Operating Temperature                | 0...82.2 °C (32...180 °F)                      |                                                |
| Storage Temperature                  | -40...+82.2 °C (-40...+180 °F)                 |                                                |

**IMPORTANT** Temperature range below 0 °C (32 °F) is based on the absence of freezing moisture or water.

## Interchangeability

| Use these Limit Switch body only catalog numbers                                 | With or without any of the following suffix letters | Can be used in combination with any of the following factory or field installed operating head catalog numbers |                                                                                      |
|----------------------------------------------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 802M-XY5...802M-XY99<br>802M-XJ1...802M-XJ9<br>802M-XY5...802M-XY99<br>802M-XYC4 | NF<br>NC<br>N5F<br>N5C                              | 802M-AX<br>802M-ATX<br>802M-A2X<br>802M-AMX<br>802M-BX<br>802M-BAX<br>802M-CX                                  | 802M-CAX<br>802M-DX<br>802M-HX<br>802M-H1X<br>802M-H2X<br>802M-KX<br>802M-K1X        |
| 802MC-XY5...802MC-XY99<br>802MC-XJ1...802MC-XJ9<br>802M-XYC4                     | NF<br>NC<br>N5F<br>N5C                              | 802MC-AX<br>802MC-ATX<br>802MC-A2X<br>802MC-AMX<br>802MC-BX<br>802MC-BAX<br>802MC-CX                           | 802MC-CAX<br>802MC-DX<br>802MC-HX<br>802MC-H1X<br>802MC-H2X<br>802MC-KX<br>802MC-K1X |

## Waste Electrical and Electronic Equipment (WEEE)



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

Rockwell Automation maintains current product environmental compliance information on its website at [rok.auto/pec](http://rok.auto/pec).

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