

Neutral Position and Sequential Limit Switch

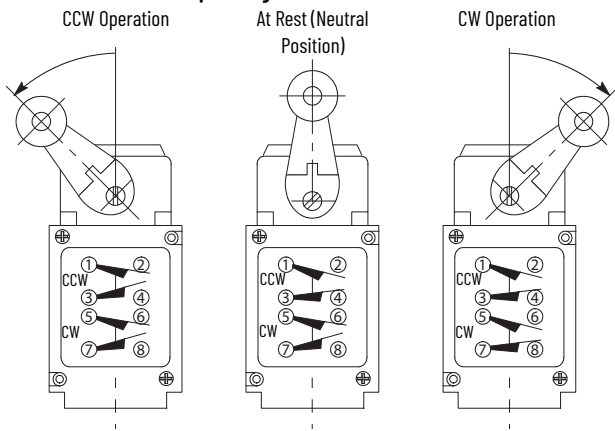
Bulletin Number 802M

Neutral Position

A neutral position limit switch is a device that consists of two different switching elements that are contained in one enclosure. As shown in [Figure 1](#), these switching elements are operated in a specific manner with only one of the two being operated at a time.

When an external operator of the device is moved in one direction, one of the switches is operated; the second switch remains unoperated. The switch action reverses when the actuator moves in the opposite direction; the second switch operates, the first does not.

Figure 1 - Neutral Position Operating Mode

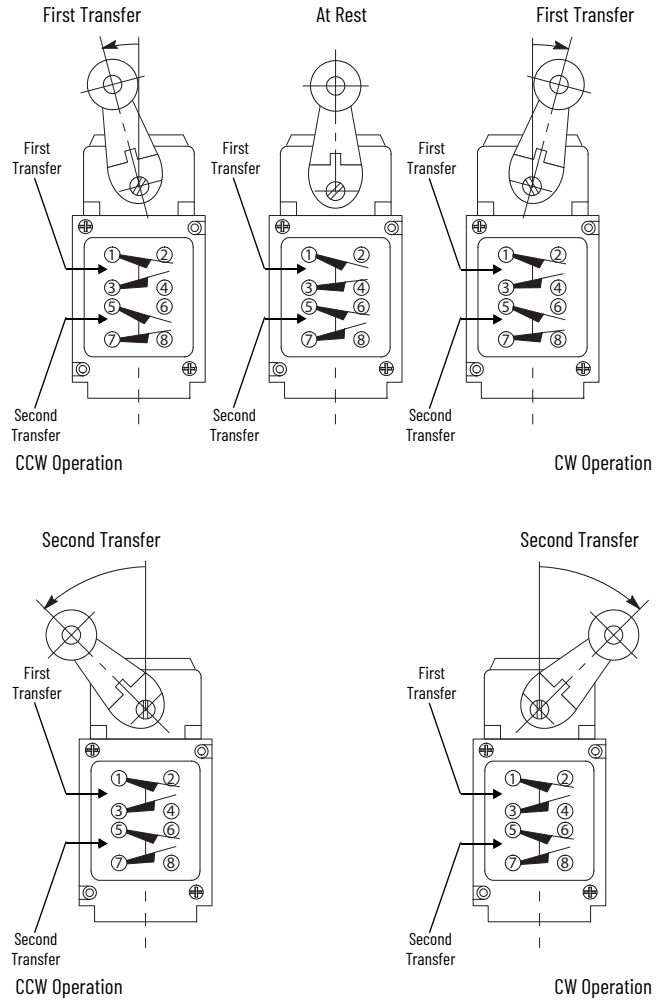


The operating head and the switch unit that is used in this style of device are unique and can only be used with one another. Operating heads or switches from other styles of devices cannot be interchanged with these devices.

Sequential

A sequential limit switch is a device that consists of two separate switching elements that are contained in one enclosure. As shown in [Figure 2](#), these switching elements are operated in a specific manner as follows: when the external operation of the device is moved in one direction, one of the switching elements is transferred. Continued movement of the operation in the same direction transfers the second switching element.

Figure 2 - Sequential Operating Mode



The operating head and the switch unit that is used in this style of device are unique and can only be used with one another. Operating heads or switches from other styles of devices cannot be interchanged with these devices.

Wiring

Bulletin 802M limit switches are prewired and sealed at the factory. See wiring diagram on individual devices for proper circuit hook-up.

IMPORTANT The contacts in each switching element must be wired with the same polarity.

Mounting

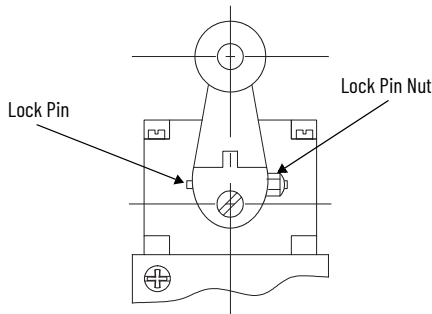
Two clearance holes for #10 screws are provided for front mounting. An adapter kit is available for rear mounting. Contact your local Allen-Bradley distributor or Rockwell Automation sales office.

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 lock pin nut. See [Figure 3](#).

Figure 3 - Lever Positioning



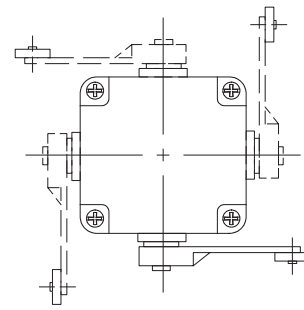
Actuator Head Positioning

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 15 N•m (11 lb•in).

[Figure 4](#) shows the rotary operating head with a roller lever.

Figure 4 - Actuator Head Positioning



Specifications

- Electrical ratings: NEMA B300
- Enclosure types: 1, 4, 6P, 13
- Operating temperature: 0...82.2 °C (32...180 °F)
- Storage temperature: -40...+82.2 °C (-40...+180 °F)



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

Renewal Parts

The switch body of the operating head can be ordered as a renewal part. 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.

Rockwell Automation maintains current product environmental compliance information on its website at rok.auto/pec.

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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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