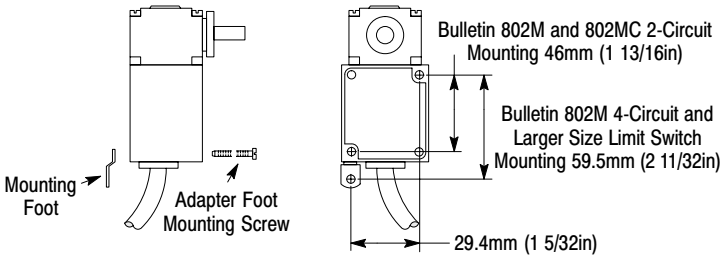
Installation and Operating Instructions
Bulletin 802M (2-Circuit Standard) and
802MC (2-Circuit Corrosion Resistant) Limit Switch

Mounting

Two clearance holes for #10 screws are provided for front mounting. The adapter foot included with the 2-circuit standard version may be used when it is desired to mount the switch to the dimensions of a 4-circuit and other larger size limit switches. Place the adapter foot end with the tapped hole into the rectangular recess at the lower rear corner of the switch and securely tighten (approx. 32 in-lbs.) the adapter foot with the mounting screw provided. Make sure 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

Bulletin 802M and Bulletin 802MC limit switches are pre-wired and factory sealed. Refer to wiring diagram on nameplate for proper circuit hookup.

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

The indicating light is prewired and permanently sealed; the LED cannot be replaced.

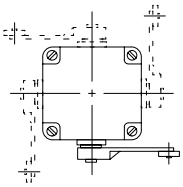
Optional wiring formats: Some switches may be equipped with a mini-type male connector. If the mating cord (not supplied by Allen-Bradley) contains a green lead, it should be permanently reidentified with a color other than green to guard against its use as an equipment grounding conductor. Refer to wiring diagram on nameplate for proper circuit hook-up.

Some switches may be equipped with 24V DC (Red) LED indicating light. One side of the light will be wired to either the normally open (LF) or the normally closed (LC) contacts. The other side of the indicting light will be available through an extra cable lead or mini-type connector pin. This permits wiring of the inidcating light with the load controlled by the limit switch. Refer to wiring diagram on nameplate for proper circuit hook-up.

Actuator Head Positioning

All actuator head styles may be placed in any of four positions on the switch body. Loosen the four captive head screws, place the head in the desired position and securely retighten (approx. 11 in-lbs.) the four screws. Figure 2 shows the rotary operating head with a roller lever.

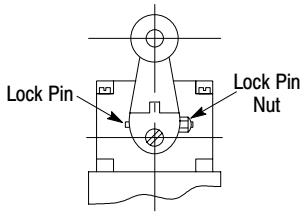
Figure 2



Lever Positioning

The lever used with rotary actuated devices is adjustable to any position through 360° around the shaft. Loosen the lock pin nut, move the lever to the desired position and securely retighten the lock pin nut. See Figure 3. Refer to your Allen-Bradley *Sensors* catalog for a complete selection of operating levels.

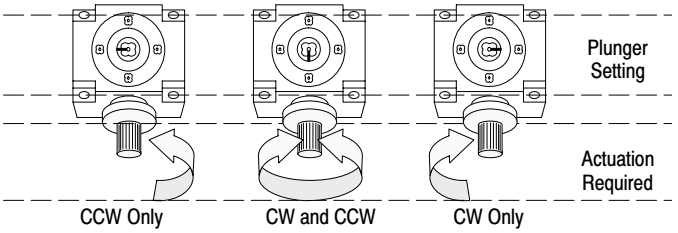
Figure 3



Changing 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. To change the direction of actuation, loosen the four head mounting screws and remove the operating head from the switch body. Locate the plunger on the underside of the operating head. Pull it outward and rotate it in steps of 90º to provide the operating mode desired. The respective settings are shown in Figure 4. Make sure the plunger is pushed back inward before the operating head is reattached to the switch body. Securely retighten (approx. 11 in-lbs.) the operating head mounting screws. Check for desired actuation mode.

Figure 4



Renewal Parts

The switch body or operating head may be ordered as a renewal part. Order by catalog number and series letter as it appears on the nameplate of that part. Make sure rubber sealing ring, provided with switch body, is properly installed between switch body and operating head.

General Data

	2-Circuit
Electrical Ratings:	NEMA R300 with Cable. NEMA R150 with Mini-Type Receptacle Option. 24VDC with LF or LC Indicating light option

Enclosure Types:

Bulletin 802M (Standard) 1, 4, 6P, 13

Bulletin 802MC (Corrosion Resistant) 1, 4, 4X, 6P, 13

Operating Temperature . . . . . 32°F to + 180°F (– 0°C to + 82.2°C)

Storage Temperature . . . . . – 40°F to + 180°F (– 40°C to + 82.2°C)

Note: Temperature range below + 32°F is based on the absence of freezing moisture or water.

Interchangeability

The following limit switch body only catalog numbers:	With or without any of the following suffix letters	May be used in combination with any of the following factory or field installed operating head catalog numbers	
802M–XY5 thru 802M–XY99 802M–XZY5 thru 802M–XZY99 802M–XZJ1 thru 802M–XZJ9	LF LC L1F L1C	802M–AX 802M–A1X 802M–A2X 802M–AMX 802M–BX 802M–BAX	802M–CX 802M–CAX 802M–DX 802M–HX 802M–H2X 802M–KX
802MC–XY5 thru 802MC–XY99 802MC–XZ5 thru 802MC–XZY99 802MC–XZJ thru 802MC–XZJ9	LF LC L1F L1C	802MC–AX 802MC–A1X 802MC–A2X	