



Description

The Bulletin 802MC is a pre-wired limit switch especially designed to provide additional corrosion protection in wet or dry locations commonly found in industrial process. By using a polymeric enclosure and Type 316 stainless steel for the exposed metal parts, the Bulletin 802MC provides a tougher defense against environmental contaminants to provide the user with more dependable operation and longer lasting performance. In addition, this switch is factory sealed and is particularly effective in applications where it may be subjected to dust, dirt, streams of liquids or occasionally submerged in fluids.

Specifications

Enclosure Rating		NEMA 1, 4X, 6P, 13 and IP66/67 (IEC529)				
Pollutions Degree		3				
Certifications		UL Listed, CSA Certified and CE Marked for applicable directives				
Ambient Temperature [C (F)]❶		0...+80° (+32...+180°)				
AC Contact Rating (Maximum per Pole, 50 or 60Hz, 2 Circuits Same Polarity)						
NEMA Rating Designation	Voltage	A		Continuous Carrying Current	VA	
		Make	Break		Make	Break
A600 AC-15	120	60	6.00	10	7200	720
	240	30	3.00	10	7200	720
	480	15	1.50	10	7200	720
	600	12	1.20	10	7200	720
DC Contact Rating (Maximum per Pole, 2 Circuits Same Polarity)						
	Nominal Voltage	A		Continuous Carrying Current		
	24	1.1		5		

❶ Minimum temperature is based on the absence of freezing moisture or water.

Applications

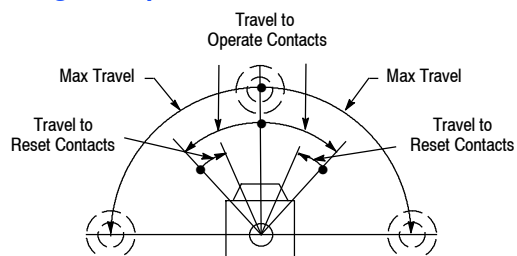
Typical examples of Bulletin 802MC applications are plating facilities, chemical or fertilizer plants, meat packing plants, dairies, breweries and other processing industries, where equipment might be hosed down regularly with cleaning solutions.

Features

- Pre-wired and factory sealed
- Corrosion resistant
- Submersible

Corrosion-Resistant Pre-Wired

- Lever Type • Spring Return page 5-31
- Wiring Diagrams page 5-32
- Modifications and page 5-33
- Accessories

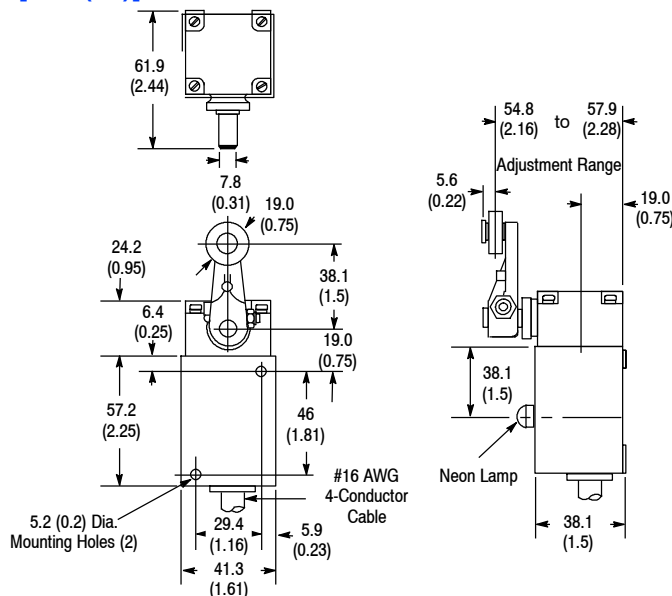
802MC Lever Type • Spring Return**Corrosion-Resistant Pre-Wired—Factory Sealed Switches****Range of Operation**Complete Switch
Without LeverOperator
Head Only

Base Only

Product Selection

No. of Circuits	Lever Movement vs. Contact Operation	Torque to Operate (Max)	Travel to Operate Contacts (Max)	Max Travel	Travel to Reset Contacts (Max)	Cat. No.		
						Complete Switch w/o Lever ①	Operator Head Only	Switch Only ①
2	Clockwise or Counterclockwise	0.34 N•m (3 lb•in)	15°	86°	6°	802MC-AY5	802MC-AX	802MC-XY5
	Clockwise					802MC-A1Y5	802MC-A1X	
	Counterclockwise					802MC-A2Y5	802MC-A2X	

① The standard length of STO cable is 1.52 m (5 ft). For other lengths, see Modifications and Accessories.

Approximate Dimensions [mm (in.)]

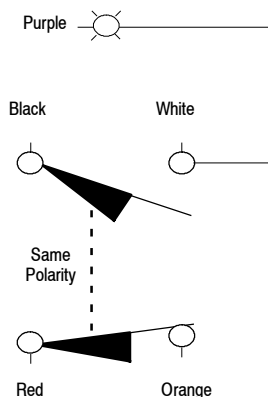
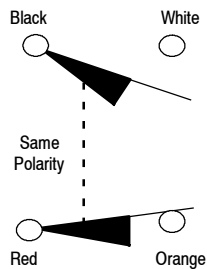
Levers—See page 5-130 for a complete listing of operating levers.

Wiring Diagrams—See page 5-32.

Modifications and Accessories—See page 5-33.

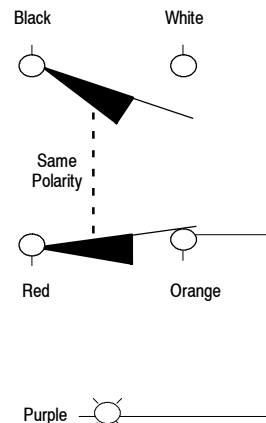
Cable Models

(See Applicable Codes and Laws)



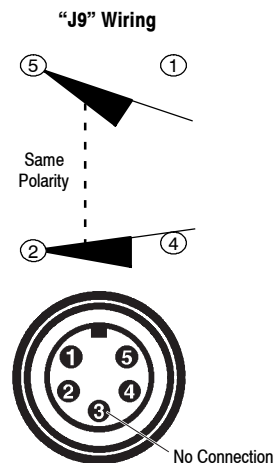
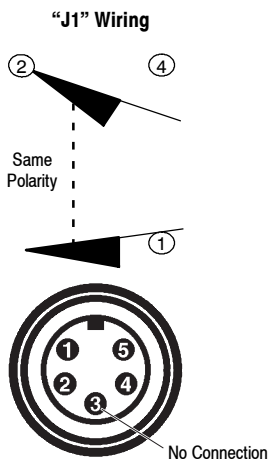
Light Wired to N.O. (White) Wire

Cable Models with Indicating Light

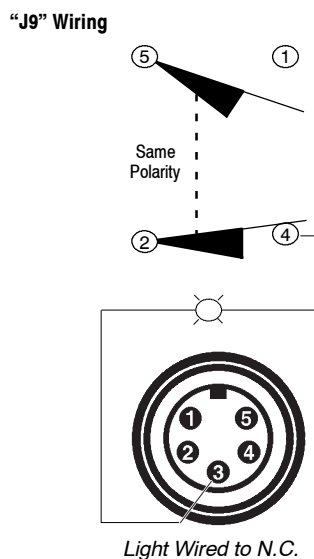
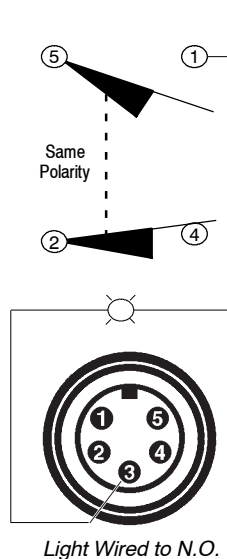
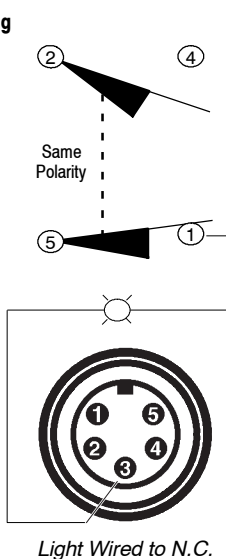
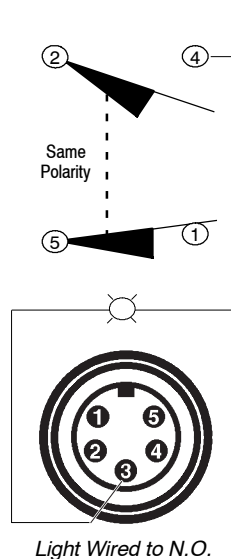


Light Wired to N.C. (Orange) Wire

5-Pin Mini-Type Receptacle



5-Pin Mini-Type Receptacle with Indicating Light



802MC Modifications

Corrosion-Resistant Pre-Wired—Factory Sealed Switches



Neon Indicating Light

Indicating Light

Bulletin 802MC pre-wired limit switches can be supplied with an indicating light wired to one side of either the N.O. or N.C. contact. The second lead of the light is available as a fifth conductor for wiring flexibility.

To order, add the appropriate suffix listed in the table below to the cat. no.. Example: Cat. No. 802MC-AY5 with a 120V AC LED indicating light wired across the N.O. contact would be Cat. No. 802MC-AY5L1F.

LED Indicating Light

Voltage	Wired to	Cat. No. Suffix
24V DC ❶	N.O. Contact	LF
	N.C. Contact	LC
120V AC 50-60 Hz	N.O. Contact	L1F
	N.C. Contact	L1C

Neon Indicating Light

Voltage	Wired to	Cat. No. Suffix
120V AC 50-60 Hz	N.O. Contact	NF
	N.C. Contact	NC
240V AC 50-60 Hz	N.O. Contact	N5F
	N.C. Contact	N5C

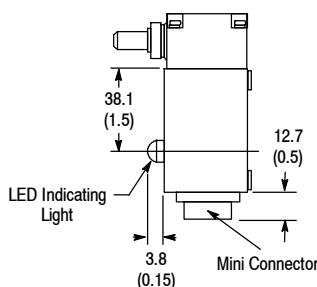


5-Pin Mini-Type Receptacle

5-Pin Mini-Type Receptacle❷—2-Circuit Contact Block

To order a Bulletin 802MC pre-wired limit switch with a 5-pin mini connector in place of the 1.52 m (5 ft) of "STO"❸ cable, replace the **Y5** in the cat. no. with the suffix **J1** or **J9** depending upon the wiring configuration required. Maximum voltage rating for this receptacle is 250V AC.

An appropriate female connector with cable (889N-F5AFC-6F) is available on page 8-4 in Connection Systems.



Cable Length

The factory installed pre-wired, type STO cable is normally supplied in 1.52 m (5 ft) lengths. Extended cable lengths are available in multiples of 4 feet. To order, replace the suffix **Y5** in the cat. no. with the appropriate suffix from the table below. Example: To order a lever type spring return switch with 1.83 m (8 ft) of STO cable the cat. no. would be 802MC-AY8.

Modification	Cat. No. Suffix
1.83 m (8 ft) Cable	Y8
3.66 m (12 ft) Cable	Y12
4.78 m (16 ft) Cable	Y16

2-Circuit 24V DC Switches

All 2-circuit 802MC limit switches are available with silver-nickel contacts and rated for 24V DC applications. To order a switch rated for 24V DC use, insert the letter **Z** before the cable or connection designation. Example: 802MC-AZY5 is a 24V DC version of the 802MC-AY5. The use of the 24V DC pilot light option requires the switch be rated for 24V DC operation.

- ❶ Requires switch to be rated for 24V DC operation.
- ❷ A 5-pin mini-type receptacle is supplied to facilitate retrofitting existing installations. The normal ground wire pin is not required and is not connected inside the switch.
- ❸ STO is a common identification of this cable. The more complete identification of the cable used on the Bulletin 802M is ST00W-A which incorporates an oil resistant jacket and conductor insulation, for indoor and outdoor use.