



Description

The Bulletin 802M compact pre-wired limit switch is factory sealed to meet the demanding requirements for NEMA 1, 4, 6P and 13 enclosures. Outstanding features designed into the switch make it ideal for wet environments and washdown applications.

A wide variety of operating heads and operating levers are available. Operating heads can be mounted in four positions, 90° apart.

Applications

The Bulletin 802M is designed for dry and wet applications. The superior sealing system has been developed to protect against dust, dirt, and fluids normally found in industrial environments. The device has passed harsh environmental testing such as alternately drenching with a liquid and exposing to dust and abrasive grit with the switch operating 250 times per minute.

Specifications

Enclosure Rating	NEMA 1, 4, 6P, 13 and IP67
Pollution Degree	3
Certifications	UL Listed, CSA Certified and CE Marked for applicable directives
Ambient Temperature [C (F)]	0...+80° (+32...+18°) minimum temperature based on the absence of freezing moisture or water.

AC Contact Rating (Maximum per Pole, 50 or 60Hz, 2 Circuits Same Polarity)

NEMA Rating Designation	Max 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

AC Contact Rating (Maximum per Pole, 50 or 60Hz, 4 Circuits Same Polarity)

NEMA Rating Designation	Max Voltage	A		Continuous Carrying Current	VA	
		Make	Break		Make	Break
B300	120	30	3.00	5	3600	360
	240	15	1.50	5	3600	360

DC Contact Rating (Maximum per Pole, 2 Circuits Same Polarity)

	Nominal Voltage	A	Continuous Carrying Current (A)	
	24	1.1	5	

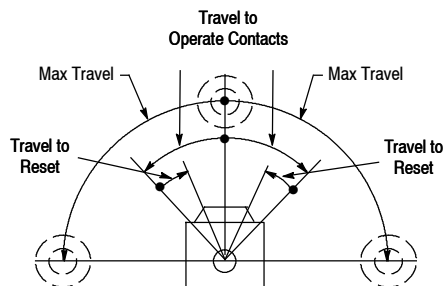
The switch is often used in applications subject to washdowns, streams of coolant, or occasionally submerged in fluids commonly found on machines or in industrial processes. This limit switch is being used successfully in High Water Content Fluid (HWCF) applications. Contact your local Rockwell Automation sales office or Allen-Bradley distributor for applications where potentially corrosive fluids are of a particular concern.

Features

- Pre-wired and factory sealed
- Corrosion-resistant housings
- Corrosion-resistant hardware (802MC)
- Side rotary, adjustable top and top or side push styles with and without rollers
- Double-break fine silver contacts

Pre-Wired—Factory Sealed

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- Lever Type Neutral page 5-19
- Position • Spring Return
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802M Lever Type • Spring Return**Pre-Wired—Factory Sealed Switches****Range of Operation**Complete Switch
Without LeverOperator Head
Only

Switch Body 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 ❶	Operator Head Only	Switch Body Only ❶
2	Clockwise or Counterclockwise	1 2 3 4	15°	86°	6°	802M-AY5	802M-AX	802M-XY5
		1 2 3 4	8°		4°	802M-HY5	802M-HX	
	Clockwise	1 2 3 4	15°		6°	802M-A1Y5	802M-A1X	
		1 2 3 4	8°		4°	802M-H1Y5	802M-H1X	
	Counterclockwise	1 2 3 4	15°		6°	802M-A2Y5	802M-A2X	
		1 2 3 4	8°		4°	802M-H2Y5	802M-H2X	
4	Clockwise or Counterclockwise	1 2 3 4 5 6 7 8	15°	86°	6°	802M-ATY5	802M-AX	802M-XTY5
		1 2 3 4 5 6 7 8	8°		4°	802M-HTY5	802M-HX	
	Clockwise	1 2 3 4 5 6 7 8	15°		6°	802M-A1TY5	802M-A1X	
		1 2 3 4 5 6 7 8	8°		4°	802M-H1TY5	802M-H1X	
	Counterclockwise	1 2 3 4 5 6 7 8	15°		6°	802M-A2TY5	802M-A2X	
		1 2 3 4 5 6 7 8	8°		4°	802M-H2TY5	802M-H2X	

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

Levers—See page 5-130 for a complete listing of operating levers.**Wiring Diagrams**—See page 5-24.**Modifications and Accessories**—See page 5-27.

802M Modifications

Pre-Wired—Factory Sealed Switches

24V DC Switches

All two-circuit 802M limit switches are available with silver-nickel contacts rated for 24V DC applications. To order a switch rated for 24V DC use, insert the letter **Z** before the cable or connector designation. Example: 802M-AZY5 is a 24V DC version of the 802M-AY5. The use of the 24V DC micro connector option or 24V DC indicating light option require the switch be rated for 24V DC operation.

Extended Cable Lengths

The factory installed type STO cable is normally supplied in 1.52 m (5 ft) lengths. Extended cable lengths are available in multiples of four 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 two-circuit spring return switch with 1.83 m (8 ft) of STO cable the cat. no. would be 802M-AY8.

Additional Cable Length

Modification	Cat. Number Suffix
1.83 m (8 ft) Cable	Y8
3.66 m (12 ft) Cable	Y12
4.78 m (16 ft) Cable	Y16

5-Pin Mini-Type Receptacle^①
(2-Circuit Models Only)

802M with Mini-Type Receptacle
2-Circuit

To order a Bulletin 802M pre-wired limit switch with a 5-pin mini connector in place of the 1.52 m (5 ft) of "STO"^② 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.

9-Pin Mini-Type Receptacle^①
(4-Circuit Models without Indicator Lights Only)

802M with Mini-Type Receptacle
4-Circuit

To order a Bulletin 802M pre-wired limit switch with a 9-pin mini connector in place of the 1.52 m (5 ft) of STO cable, replace the **Y5** in the cat. no. with the suffix **J1**. Maximum voltage rating for this receptacle is 250V AC.

An appropriate female connector with cable (889N-F9AF-2) is available on page 8-14 in Connection Systems.

10-Pin Mini-Type Receptacle^①
(4-Circuit Models with 2 Indicating Lights Only)

To order a Bulletin 802M pre-wired limit switch with a 10-pin mini pre-connector and two indicating lights, replace the **Y5** in the cat. no. with the suffix **J4**. Maximum voltage rating for this receptacle is 250V AC. Also, specify the indicating lights per the table on page 5-28.

Example: Cat. No. 802M-ATY5 with mini-connector and (2) 120V AC indicating lights wired to one side of each N.O. contact would be Cat. No. 802M-ATJ4L1F.

An appropriate female connector with cable (889N-F10AF-2) is available on page 8-14 in Connection Systems.

4-Pin Micro-Type Receptacle
(2-Circuit 24V DC Models Only)

802M with Micro-Type
Receptacle—2-Circuit

To order a Bulletin 802M pre-wired limit switch with a 4-pin micro connector in place of the 1.52 m (5 ft) of "STO"^② cable, replace the **Y5** in the cat. no. with the suffix **J7** or **J8** depending upon the wiring configuration required. This option requires that the switch is rated 24V DC.

An appropriate female connector with cable (889D-F4AC-2) is available on page 8-16 in Connection Systems.

5-Pin Micro-Type Receptacle
(2-Circuit 24V DC Models Only)

To order a Bulletin 802M pre-wired limit switch with a 5-pin micro connector in place of the 1.52 m (5 ft) of "STO"^② cable, replace the **Y5** in the cat. no. with the suffix **J5** or **J6** depending upon the wiring configuration required. This option requires that the switch is rated 24V DC.

An appropriate female connector with cable (889D-F5AC-2) is available on page 8-16 in Connection Systems.

① A 5-pin, 9-pin or 10-pin plug-in receptacle is supplied to facilitate retrofitting existing installations. The normal ground wire pin is not required and is not connected inside the switch.

② 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.