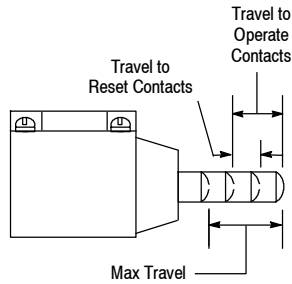


## Limit Switches

# 802M Push Type • Spring Return

## Pre-Wired—Factory Sealed Switches

### Range of Operation



### Product Selection

No. of Circuits	Operator Type	Contact Operation		Force to Operate (Max)	Travel to Operate Contacts (Max)	Max Travel	Travel to Reset Contacts (Max)	Cat. No.		
		Normal	Operated					Complete Switch ❶	Operator Head Only	Switch Body Only ❶
2	Top Push Rod	$\begin{matrix} 1 \circ &   & \circ 2 \\ 3 \circ &   & \circ 4 \end{matrix}$	$\begin{matrix} 1 \circ &   & \circ 2 \\ 3 \circ &   & \circ 4 \end{matrix}$	13.3 N (3 lb)	1.45 mm (0.057 in.)	5.26 mm (0.207 in.)	0.56 mm (0.022 in.)	802M-BY5	802M-BX	802M-XY5
	Adjustable Top Push Rod			20 N (4.5 lb)	2.59 mm (0.102 in.)	5.16 mm (0.203 in.)	1.14 mm (0.045 in.)	802M-BAY5	802M-BAX	
	Side Push Rod			14.7 N (3.3 lb)	1.45 mm (0.057 in.)	5.26 mm (0.207 in.)	0.56 mm (0.022 in.)	802M-CY5	802M-CX	
	Top Push Roller			20 N (4.5 lb)	2.59 mm (0.102 in.)	5.1 mm (0.203 in.)	1.14 mm (0.045 in.)	<b>802M-DY5</b>	<b>802M-DX</b>	
	Side Push Vertical Roller						<b>802M-KY5</b>	<b>802M-KX</b>		
	Side Push Horizontal Roller						802M-K1Y5	802M-K1X		
	Adjustable Side Push Rod						802M-CAFY5	802M-CAFX		
4	Top Push Rod	$\begin{matrix} 1 \circ &   & \circ 2 \\ 3 \circ &   & \circ 4 \\ 5 \circ &   & \circ 6 \\ 7 \circ &   & \circ 8 \end{matrix}$	$\begin{matrix} 1 \circ &   & \circ 2 \\ 3 \circ &   & \circ 4 \\ 5 \circ &   & \circ 6 \\ 7 \circ &   & \circ 8 \end{matrix}$	13.3 N (3.5 lb)	1.45 mm (0.057 in.)	5.13 mm (0.202 in.)	0.076 mm (0.030 in.)	802M-BTY5	802M-BX	802M-XY5
	Adjustable Top Push Rod			20 N (4.5 lb)	3.18 mm (0.125 in.)	5.54 mm (0.218 in.)	1.14 mm (0.045 in.)	802M-BATY5	802M-BAX	
	Side Push Rod			14.7 N (3.5 lb)	1.45 mm (0.057 in.)	5.13 mm (0.202 in.)	0.076 mm (0.030 in.)	802M-CTY5	802M-CX	
	Top Push Roller			20 N (4.5 lb)	3.18 mm (0.125 in.)	5.54 mm (0.218 in.)	1.14 mm (0.045 in.)	802M-DTY5	802M-DX	
	Side Push Vertical Roller						802M-KTY5	802M-KX		
	Side Push Horizontal Roller						802M-K1TY5	802M-K1X		
	Adjustable Side Push Rod						802M-CAFTY5	802M-CAFX		

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

**Wiring Diagrams—See page 5-24.**

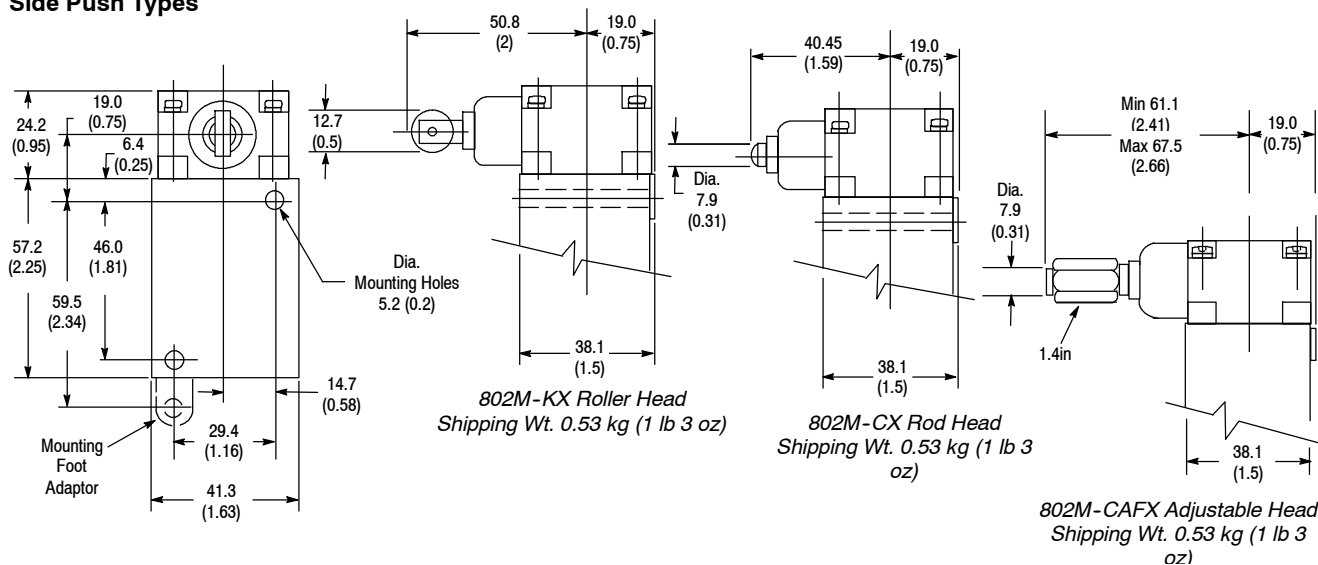
**Modifications and Accessories—See page 5-27.**

# 802M Push Type • Spring Return

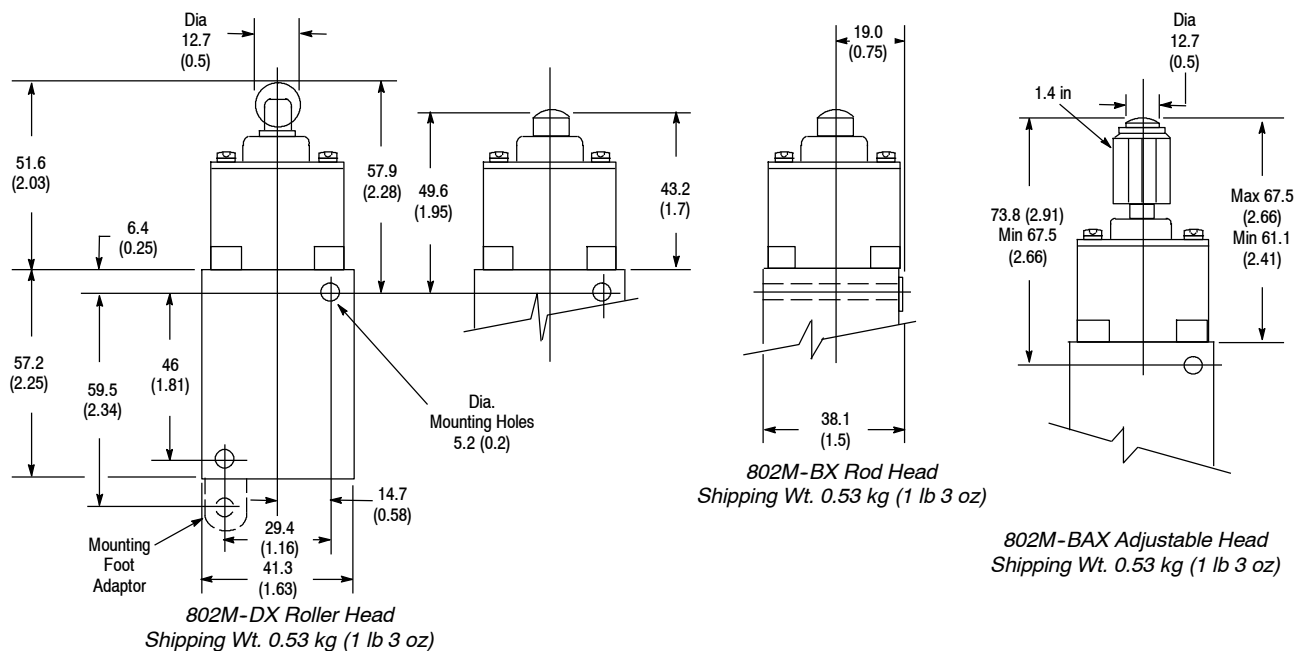
Pre-Wired—Factory Sealed Switches

## Approximate Dimensions [mm (in.)]

### Side Push Types



### Top Push Types



**Note:** Mounting foot adaptor as shown above is for use with 2-circuit 802M type switches only.

**Wiring Diagrams**—See page 5-24.

**Modifications and Accessories**—See page 5-27.

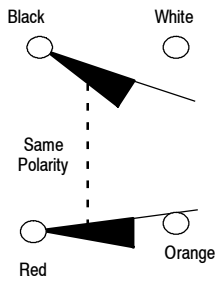
# Limit Switches

## 802M Wiring Diagrams for 2-Circuit Models

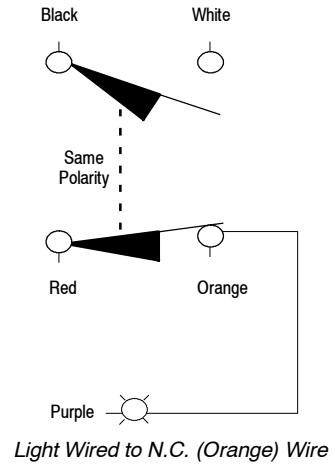
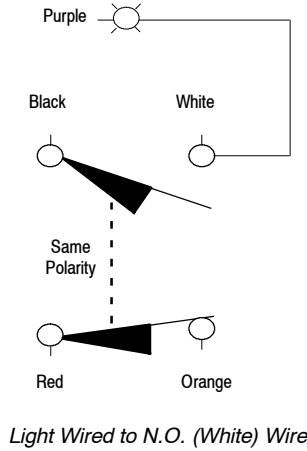
### Pre-Wired—Factory Sealed Switches

#### Cable Models

(See Applicable Codes and Laws)

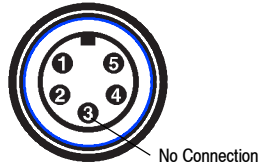
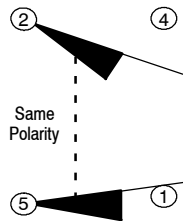


#### Cable Models with One Indicating Light

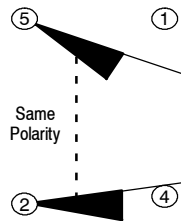


#### 5-Pin Mini-Type Receptacle

##### “J1” Wiring

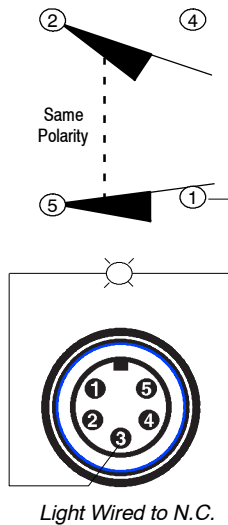
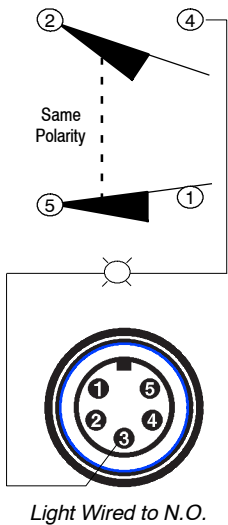


##### “J9” Wiring

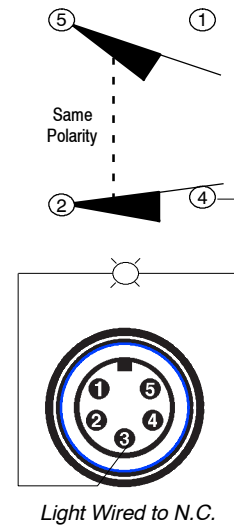
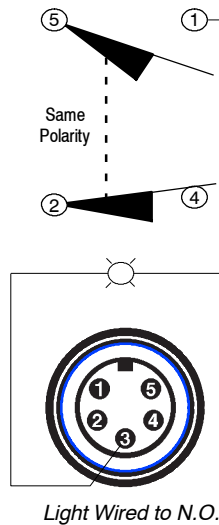


#### 5-Pin Mini-Type Receptacle with One Indicating Light

##### “J1” Wiring



##### “J9” Wiring



## 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<sup>①</sup>  
(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"<sup>②</sup> 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<sup>①</sup>  
(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<sup>①</sup>  
(4-Circuit Models with 2 Indicating Lights Only)

To order a Bulletin 802M pre-wired limit switch with a 10-pin mini 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"<sup>②</sup> 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"<sup>②</sup> 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 STOOW-A which incorporates an oil resistant jacket and conductor insulation, for indoor and outdoor use.