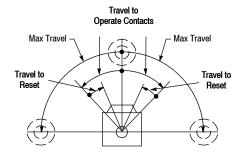
Range of Operation









Operator Head Only



Switch Body Only

Product Selection

	Lever Movement vs. Contact Operation		Torque Travel to			Travel to		Cat. No.	
No. of Circuits			to Operate (Max.)	Operate Contacts (Max.)	Max Travel	Reset Contacts (Max.)	Complete Switch w/o Lever •	Operator Head Only	Switch Body Only ①
	Clockwise or	1002 10102 1002	0.34 N•m (3 lb•in)	15°		6°	802M-AY5	802M-AX	
	Counterclockwise	30 04 30 04 30 04	0.56 N•m (5 lb•in)	8°		4°	802M-HY5	802M-HX	
0	Claskwiss	10 02 10 02 10 02	0.34 N•m (3 lb•in)	15°		6°	802M-A1Y5	802M-A1X	802M-XY5
2	2 Clockwise	30 04 30 04 30 04	0.56 N•m (5 lb•in)	8°		4°	802M-H1Y5	802M-H1X	802W-X13
	O a combanda a localizada	1002 1002 1002	0.34 N•m (3 lb•in)	15°		6°	802M-A2Y5	802M-A2X	
	Counterclockwise	30 04 30 04 30 04	0.56 N•m (5 lb•in)	8°		4°	802M-H2Y5	802M-H2X	
	Clockwise or	10 02 10 02 10 02 30 04 30 04 30 04	0.34 N•m (3 lb•in)	15°	86°	6°	802M-ATY5	802M-AX	
	Counterclockwise		0.56 N•m (5 lb•in)	8°		4°	802M-HTY5	802M-HX	
		10 02 10 02 10 02 30 04 30 04 30 04 50 06 50 06 50 06 70 08 70 08 70 08	0.34 N•m (3 lb•in)	15°		6°	802M-A1TY5	802M-A1X	00011 1/71/5
4 Clockwise	Clockwise		0.56 N•m (5 lb•in)	8°		4°	802M-H1TY5	802M-H1X	802M-XTY5
		10 02 10 02 10 02	0.34 N•m (3 lb•in)	15°		6°	802M-A2TY5	802M-A2X	
	Counterclockwise 3 0 0 4 3 0 0 4 5 0 0 6		0.56 N•m (5 lb•in)	8°		4°	802M-H2TY5	802M-H2X	

¹ 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.

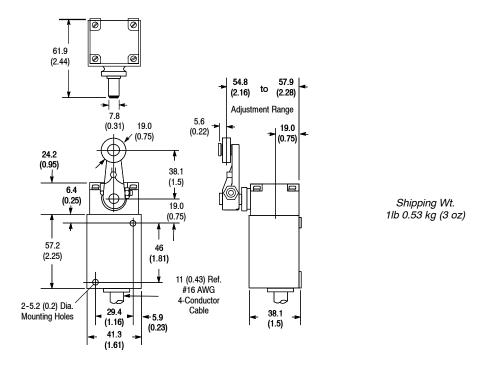


802M Lever Type • Spring Return

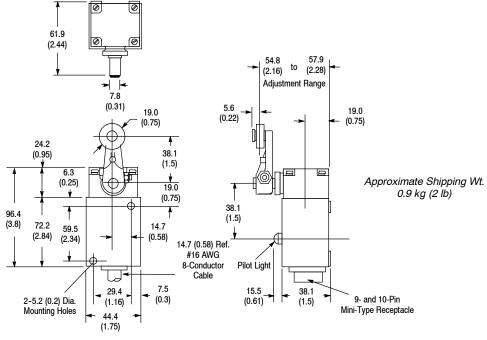
Pre-Wired—Factory Sealed Switches

Approximate Dimensions [mm (in.)]

2-Circuit



4-Circuit



Note: Mounting foot adaptor as shown on page 5–23 is for use with 2-circuit 802M type switches only.

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

Wiring Diagrams—See page 5-24.

Range of Operation

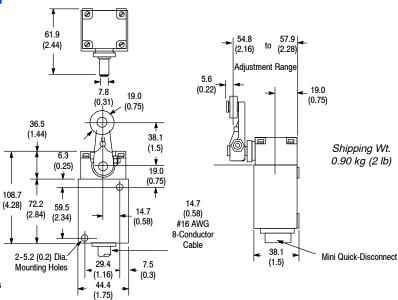


Product Selection

No. of			Torque to Travel to Operate (Max)		Mari	Travel to Reset	Cat. No. Complete Operator Switch		
No. of Circuits	Lever Movement vs. Contact Operation	cw	ccw	Contacts (Max)	Max Travel	Contacts (Max)	Switch w/o Lever 0 0	Head Only ❷	Body Only ①
4	1 0 0 2 1 0 0 2 1 0 0 2 3 0 0 4 3 0 0 4 3 0 0 4 5 0 0 6 5 0 0 6 5 0 0 6 7 0 0 8 7 0 0 8 7 0 0 8	7 lb•in) (0.79 N•m)	7.5 lb•in) (0.85 N•m)	16°	75°	7°	802M-NPY5	802M-NPX	802M-XNPY5

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

Approximate Dimensions [mm (in.)]



Note: Mounting foot adaptor as shown on page 5-23 is for use with 2-circuit 802M type switches only.

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

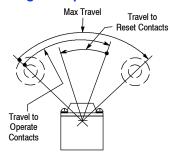
Wiring Diagrams—See page 5-24

② Operating lever 802T-W3F should not be used with this switch.

802M Lever Type • Maintained Contact

Pre-Wired—Factory Sealed Switches

Range of Operation









Complete Switch Without Lever

Operator Head Only

Switch Body Only

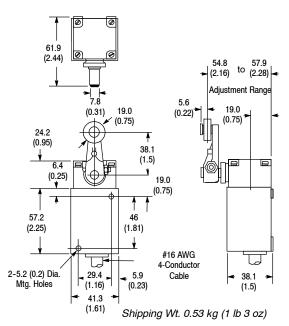
Product Selection

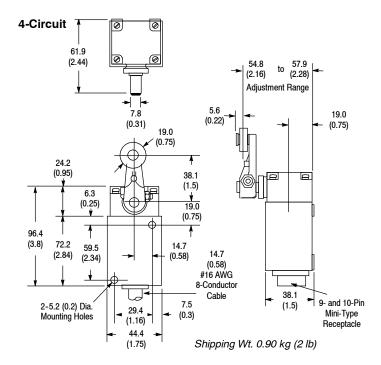
			Travel to			Travel to	Cat. No.		
No. of Circuits	Lever Moveme	nt vs. Contact Operation	Torque to Operate (Max.)	Operate Contacts (Max.)	Max Travel@	Reset Contacts (Max.)	Complete Switch w/o Lever ①	Operator Head Only	Switch Body Only ①
2	Clockwise or Counterclockwise	1 <u>0</u> 02 10 02 30 04 30 04					802M-AMY5		802M-XY5
4	Clockwise or Counterclockwise	10 02 10 02 30 04 30 04 50 06 50 06 70 08 70 08	0.31 N•m (2.75 lb•in)	75°	87°	35°	802M-AMTY5	802M-AMX	802M-XTY5

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

Approximate Dimensions [mm (in.)]





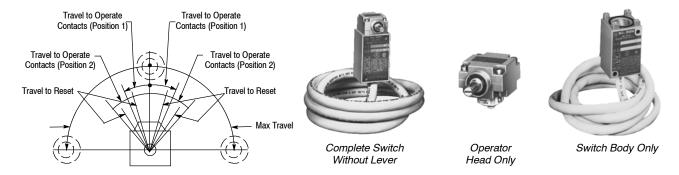


Levers—See page 5-130 for a complete listing of operating levers.

Wiring Diagrams—See page 5-24.

² From one maintained position to the other.

Range of Operation

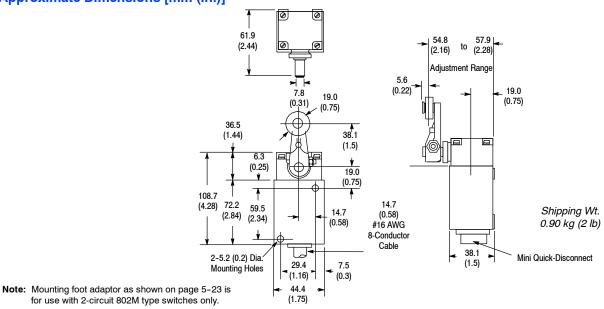


Product Selection — 4-Circuit

							Travel to		Cat. No.	
Lever Movement vs. Contact Operation	Position 1	Position 2	To Max Travel	Position 1	Position 2	Max Travel	Reset Contacts (Max.)	Complete Switch w/o Lever 0 2	Operator Head Only @	Switch Body Only ①
Counterclockwise Clockwise 2 1 2 1 10 02 10 02 10 02 10 02 10 02 30 04 30 04 30 04 30 04 50 06 50 06 50 06 50 06 70 08 70 08 70 08 70 08 70 08	0.79 N•m (7 lb•in)	0.9 N (8 lb•		10°± 3°	20°± 3°	88°	4°± 3°	802M-ASY5	802M-ASX	802M-XSY5

[•] 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 5-24.



② Operating lever 802T-W3F should not be used with this switch.

802M Push Type • Spring Return

Pre-Wired—Factory Sealed Switches

Range of Operation



Product Selection

			Contact Operation		Travel to		Travel to	Cat. No.		
No. of Circuits	Operator Type	Normal	Operated	Force to Operate (Max)	Operate Contacts (Max)	Contacts Max C		Complete Switch ①	Operator Head Only	Switch Body Only ①
	Top Push Rod			13.3 N	1.45 mm	5.26 mm	0.56 mm	802M-BY5	802M-BX	
	Adjustable Top Push Rod			(3 lb)	(0.057 in.)	(0.207 in.)	(0.022 in.)	802M-BAY5	802M-BAX	
	Side 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-CY5	802M-CX	
2	Top Push Roller	10 0 2 30 0 4	1 <u>010</u> 2 30 04	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-DY5	802M-DX	802M-XY5
	Side Push Vertical Roller	1	20 N (4.5 lb)					802M-KY5	802M-KX	
	Side Push Horizontal Roller			2.59 mm (0.102 in.)	5.1 mm (0.203 in.)	1.14 mm (0.045 in.)	8U2IVI-N I YO	802M-K1X		
	Adjustable Side Push Rod	1						802M-CAFY5	802M-CAFX	
	Top Push Rod			13.3 N	1.45 mm	5.13 mm	0.076 mm (0.030 in.)	802M-BTY5	802M-BX	-
	Adjustable Top Push Rod	1		(3.5 lb)	(0.057 in.)	(0.202 in.)		802M-BATY5	802M-BAX	
	Side 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-CTY5	802M-CX	
4	Top Push Roller	10 0 2 30 0 4 50 0 6 70 0 8	30 04	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-DTY5	802M-DX	802M-XTY5
	Side Push Vertical Roller		70 08		0.10	F F4 mm		802M-KTY5	802M-KX	
	Side Push Horizontal 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-K1TY5	802M-K1X	
	Adjustable Side Push Rod				2.59 mm (0.102 in.)	5.16 mm (0.203 in.)		802M-CAFTY5	802M-CAFX	

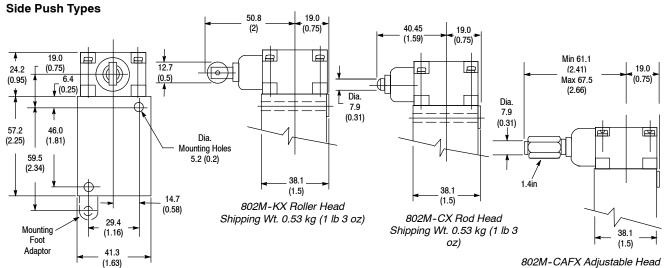
The standard length of STO cable is 1.52 m (5 ft). For other lengths see Modifications and Accessories.

Wiring Diagrams—See page 5-24.

Modifications and Accessories—See page 5-27.

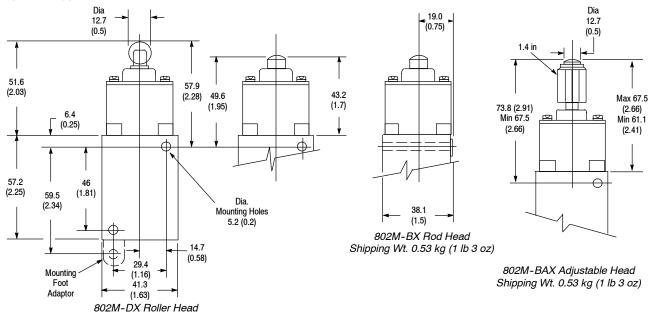


Approximate Dimensions [mm (in.)]



802M-CAFX Adjustable Head Shipping Wt. 0.53 kg (1 lb 3 oz)

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.

Shipping Wt. 0.53 kg (1 lb 3 oz)

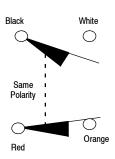


802M Wiring Diagrams for 2-Circuit Models

Pre-Wired—Factory Sealed Switches

Cable Models

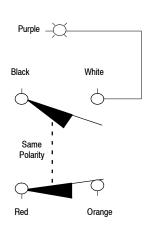
(See Applicable Codes and Laws)



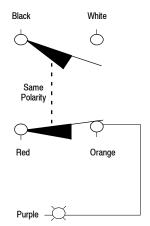
Cable Models with One Indicating Light

1

No Connection

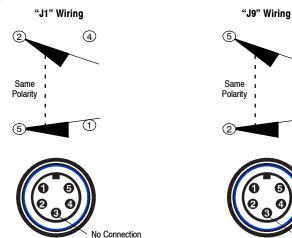


Light Wired to N.O. (White) Wire

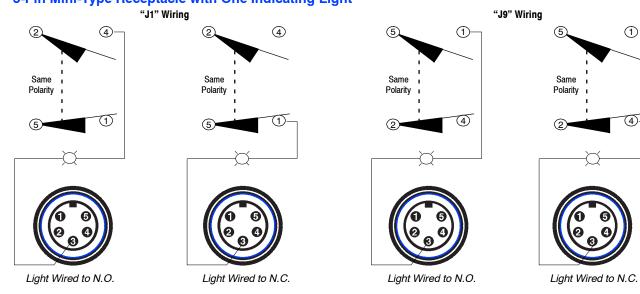


Light Wired to N.C. (Orange) Wire

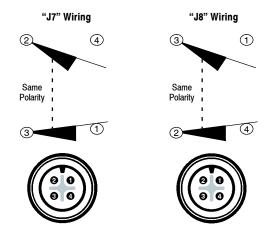
5-Pin Mini-Type Receptacle



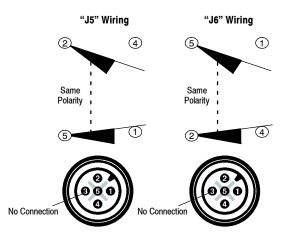
5-Pin Mini-Type Receptacle with One Indicating Light



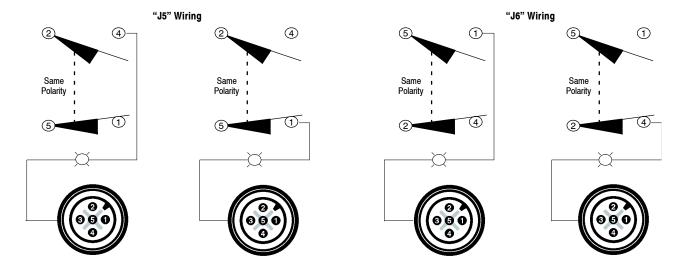
4-Pin Micro-Type Receptacle (DC only)



5-Pin Micro-Type Receptacle (DC only)



5-Pin Micro-Type Receptacle with One Indicating Light (DC only)



802M Wiring Diagrams for 4-Circuit Models

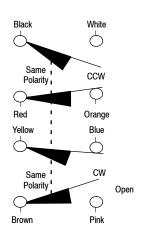
Pre-Wired—Factory Sealed Switches

Cable Models

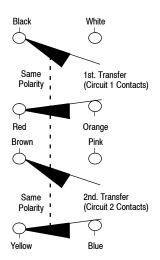
Yellow

(See Applicable Codes and Laws) White Polarity Red Orange Brown Pink Same Polarity

Neutral Position with Cable

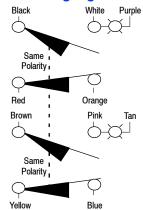


Sequential with Cable

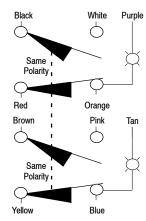


Cable Models with Two Indicating Lights

Blue

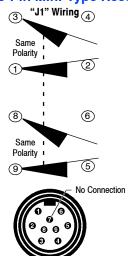


Light Wired to N.O. (White) Wire, and N.O. (Pink) Wire

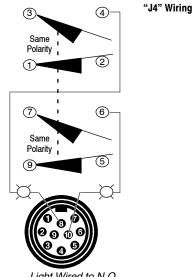


Light Wired to N.C. (Orange) Wire, and N.C. (Blue) Wire

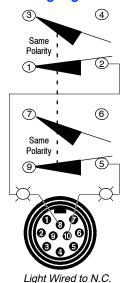
9-Pin Mini-Type Receptacle



10-Pin Mini-Type Receptacle with Two Indicating Lights



Light Wired to N.O.



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-A**Z**Y5 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-A**Y8**.

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				

• A 5-pin, 9-pin or 10-pin plug-in receptacle is supplied to

facilitate retrofitting existing installations. The normal

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

side the switch.

ground wire pin is not required and is not connected in-

5-Pin Mini-Type Receptacle (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" 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 (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 (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" 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" 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.



802M Modifications

Pre-Wired—Factory Sealed Switches

Indicating Lights

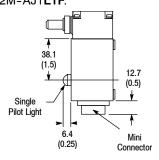


802M with Indicating Light 2-Circuit

2-Circuit—Bulletin 802M pre-wired limit switches can be supplied with an indicating light which is 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. See pages 5-24 through 5-25 for wiring diagrams.

To order, add the appropriate suffix listed in the table to the right to the cat. no. Example: Cat. No. 802M-AY5 with a 120V AC LED indicating light wired to one side of the N.O. contact would be Cat. No. 802M-AY5**L1F**.

Example: Cat. No. 802M-AY5 with mini-connector and 120V AC indicating light wired to one side of the N.O. contact would be Cat. No. 802M-AJ1L1F.



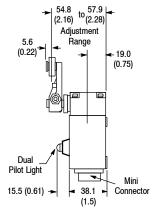


802M with Indicating Lights 4-Circuit

4-Circuit—Bulletin 802M pre-wired limit switches can be supplied with 2 indicating lights wired to one side of each N.O. or N.C. contact of the 4-circuit contact block. Second leads from each light are available as ninth and tenth conductors for wiring flexibility. See page 5–26 for wiring diagram.

To order, add the appropriate suffix listed in the table to the right to the cat. no.

Example: Cat. No. 802M-ATY5 with 120V AC LED indicating lights wired to one side of each N.C. contact would be Cat. No. 802M-ATY5**L1C.**



LED Indicating	Lights
-----------------------	--------

Voltage	Wired to ①	Cat. No. Suffix
041/100.0	N.O. Contact	LF
24V DC 2	N.C. Contact	LC
120V AC	N.O. Contact	L1F
50-60Hz	N.C. Contact	L1C

Neon Indicating Lights

Voltage	Wired to 0	Cat. No. Suffix
120V AC	N.O. Contact	NF
50-60Hz	N.C. Contact	NC
240V AC	N.O. Contact	N5F
50-60Hz	N.C. Contact	N5C

Fitting for Liquid-Tight Flexible Metal Conduit

802M 2-circuit switches can be obtained provided with a fitting for liquid-tight flexible metal conduit (flexible metal conduit not provided) and a pigtail for wiring. Add the following suffix to the cat. no. (dashes indicate pigtail length):

GS_ straight-out fitting

GF_ front oriented 90° elbow fitting

GL left oriented 90° elbow fitting

GB_ back oriented 90° elbow fitting

GR_ right oriented 90° elbow fitting.

Example: GS5=5 foot long pigtail. Additional cable length over 1.5 m (5 ft) is available in multiples of 1.2 m (4 ft).

- See wiring diagrams page 5-24...5-26.
- 2 Requires the switch be rated for 24V DC operation.