

# EMP and EMPS Barrel Assemblies

Cl. I, Div. 1 & 2, Groups B, C, D Explosionproof  
 Cl. II, Div. 1, Groups E, F, G Dust-Ignitionproof  
 Cl. II, Div. 2, Groups F, G Raintight  
 Cl. III Wet Locations  
 II 2 G Ex d IIB + H<sub>2</sub>, T5 NEMA 3, 7BCD, 9EFG

As indicated in the listings, certain barrel assemblies are the same as those used in complete EMP units and may be utilized as replacements.

The remainder are primarily for use with hazardous area boxes to assemble special control stations. For additional information, see pages 576–583 describing custom-built control panels.

## Certifications and Compliances:

- Class I, Division 1 & 2, Groups B, C, D
- Class II, Division 2, Groups E, F, G
- Class III
- NEMA/EEMAC: 3, 7BCD, 9EFG
- UL Standard 1203
- CSA Standard C22.2 No 30
- CENELEC
- ATEX Certificate ITS07 ATEX 15652U

## Ordering Information:

Select the Cat. No. from the listings. For pilot lights and illuminated pushbuttons, specify color of jewel using symbols from the table below. For pushbuttons and selector switches, optional markings may be specified in the tables below.

### Group 1:

Standard assemblies are for replacement in complete EMP units or for custom-built control panels. Short assemblies are for custom-built control panels only. Both assemblies may be used with System 4 Control Stations.

### Pilot light†



Diagram	Standard Assembly Cat. #
(120V)*	EMP009 ①

### Single pushbutton Double pushbutton, single operator

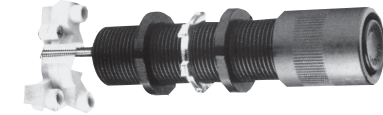


Diagram	Short Cat. #	Standard Cat. #
	EMPS019 ②	EMP019 ②
	EMPS029 ②	EMP029 ②

### Double pushbutton, double operator

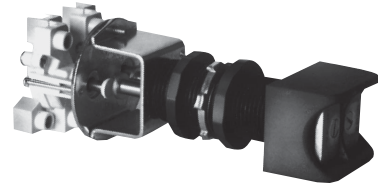


Diagram	Short Assembly Cat. #	Standard Assembly Cat. #
	EMPS039 ②	EMP039 ②

### Two-position selector switch



Diagram	Position 1	Position 2	Short Assembly Cat. #	Standard Assembly Cat. #
	A1 A2	A1 A2	EMPS049 ②	EMP049 ②
	A1 A2 B1 B2	A1 A2 B1 B2	EMPS059 ②	EMP059 ②

### Three-position selector switch

Diagram	Position 1	Position 2	Position 3	Short Assembly Cat. #	Standard Assembly Cat. #
	A1 A2	A1 A2	A1 A2	EMPS069 ②	EMP069 ②
	A1 A2 B1 B2	A1 A2 B1 B2	A1 A2 B1 B2	EMPS079 ②	EMP079 ②
	A1 A2 B1 B2	A1 A2 B1 B2	A1 A2 B1 B2	EMPS089 ②	EMP089 ②

①Add color symbol for each pilot light from table below.

Color	Symbol	Color	Symbol
Red	J1	Clear	J10
Green	J3	Blue	J11
Amber	J6		

②If desired, markings on indicating plates may be added to catalog number. Select from the list of standard markings below:

#### Push Button Station Marking

START	OFF	RESET	LIGHT ON	EMERGENCY	OPEN	DOWN	RAISE
STOP	RUN	TRIP	HAND	FORWARD	CLOSE	IN	LOWER
ON	JOG	TEST	AUTOMATIC	REVERSE	UP	OUT	

‡ LED pilot lights can be furnished in place of standard incandescent pilot lamps. Add suffix LED to end of catalog number after last color symbol.

\* Other voltages available. Consult factory. For 24 VDC operation, add suffix S300.

‡ The following suffixes may be used with these catalog numbers: S634 - Momentary contact clockwise, spring return to center; S635 - Momentary contact counter-clockwise, spring return to center.

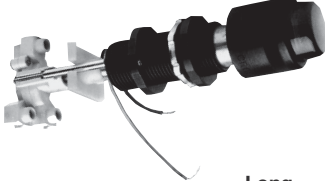
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## Group 2: For custom-built control panels.

### Illuminated pushbutton†

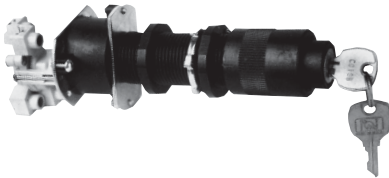


Diagram

	120V pilot light	<b>EMP0090</b> ①
	120V pilot light	<b>EMP0098</b> ①

Long Assembly Cat. #

### Two-position selector switch, key operated



Diagram

Position 1	Position 2	Key Removal	Short Assembly Cat. #	Standard Assembly Cat. #
A1	A1	Both positions	<b>EMPS0491</b> ②	<b>EMP0491</b> ②
A2	A2	Left only	<b>EMPS0492</b> ②	<b>EMP0492</b> ②
		Right only	<b>EMPS0493</b> ②	<b>EMP0493</b> ②
A1	A1	Both positions	<b>EMPS0591</b> ②	<b>EMP0591</b> ②
A2	A2	Left only	<b>EMPS0592</b> ②	<b>EMP0592</b> ②
		Right only	<b>EMPS0593</b> ②	<b>EMP0593</b> ②

### Three-position selector switch, key operated

Position 1	Position 2	Position 3	Key Removal	Short Assembly Cat. #	Standard Assembly Cat. # ✽
A1	A1	A1	All	<b>EMPS0691</b> ②	<b>EMP0691</b> ②
A2	A2	A2	Center only	<b>EMPS0692</b> ②	<b>EMP0692</b> ②
			Left only	<b>EMPS0693</b> ②	<b>EMP0693</b> ②
			Right only	<b>EMPS0694</b> ②	<b>EMP0694</b> ②
A1	A1	A1	All	<b>EMPS0791</b> ②	<b>EMP0791</b> ②
A2	A2	A2	Center only	<b>EMPS0792</b> ②	<b>EMP0792</b> ②
			Left only	<b>EMPS0793</b> ②	<b>EMP0793</b> ②
			Right only	<b>EMPS0794</b> ②	<b>EMP0794</b> ②
A1	A1	A1	All	<b>EMPS0891</b> ②	<b>EMP0891</b> ②
A2	A2	A2	Center only	<b>EMPS0892</b> ②	<b>EMP0892</b> ②
			Left only	<b>EMPS0893</b> ②	<b>EMP0893</b> ②
			Right only	<b>EMPS0894</b> ②	<b>EMP0894</b> ②

† LED pilot lights can be furnished in place of standard incandescent pilot lamps. Add suffix LED to end of catalog number after last color symbol.  
 ✽ The following suffixes may be used with these catalog numbers: S634 - Momentary contact clockwise, spring return to center; S635 - Momentary contact counter-clockwise, spring return to center.

### Maintained Contact Pushbutton



Diagram		Long Assembly Cat. #
Up	Down	
A1	A1	<b>EMP098</b> ②
A2	A2	

① Add color symbol for each pilot light from table below.

Color	Symbol	Color	Symbol
Red	J1	Clear	J10
Green	J3	Blue	J11
Amber	J6		

② If desired, markings on indicating plates may be added to catalog number. Select from the list of standard markings below:

#### Push Button Station Marking

START	OFF	RESET	LIGHT ON	EMERGENCY	OPEN	DOWN	RAISE
STOP	RUN	TRIP	HAND	FORWARD	CLOSE	IN	LOWER
ON	JOG	TEST	AUTOMATIC	REVERSE	UP	OUT	

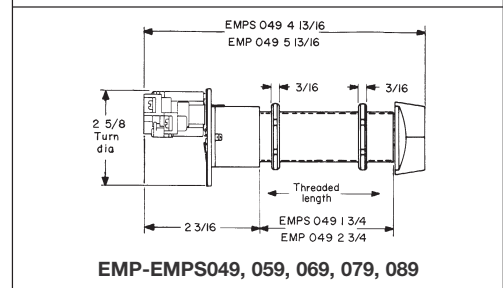
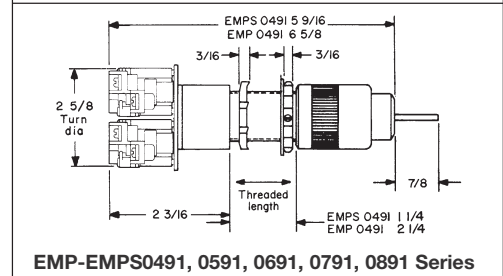
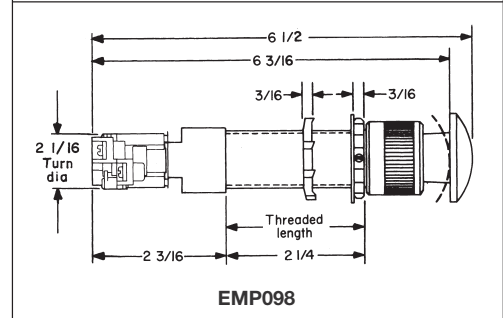
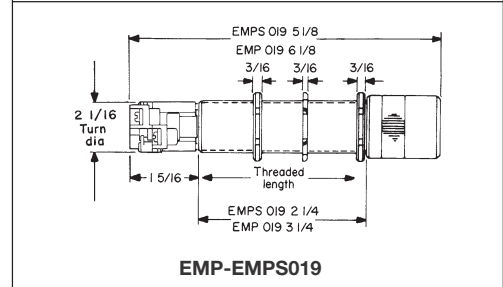
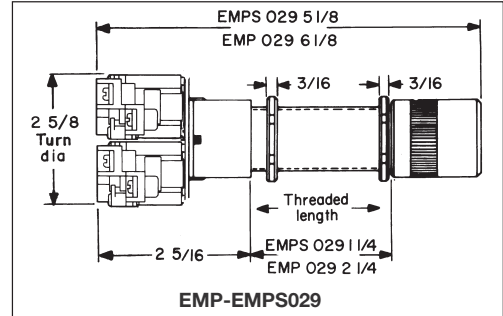
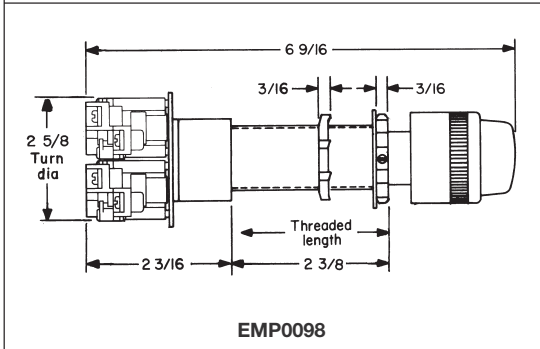
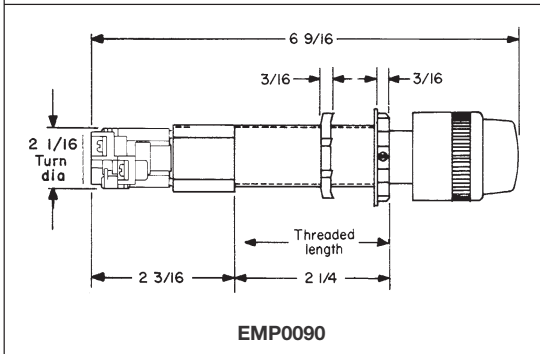
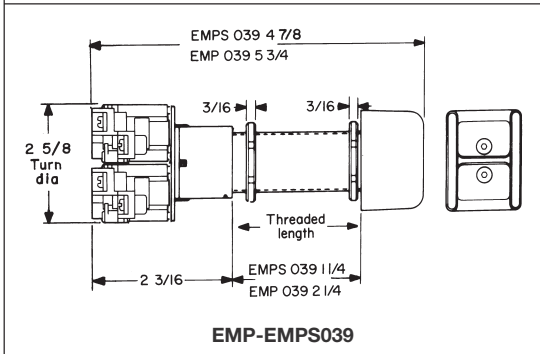
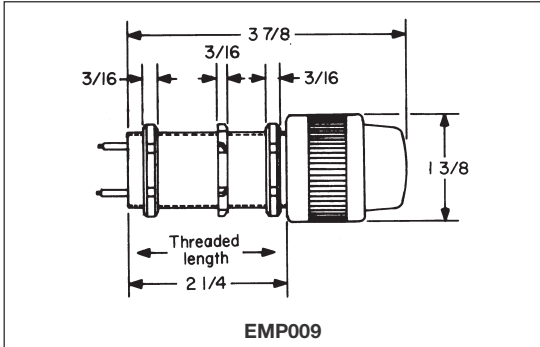
**5C**

# 5C EMP and EMPS Barrel Assemblies

Cl. I, Div. 1 & 2, Groups B, C, D Explosionproof  
 Cl. II, Div. 1, Groups E, F, G Dust-Ignitionproof  
 Cl. II, Div. 2, Groups F, G Raintight  
 Cl. III Wet Locations  
 II 2 G Ex d IIB + H<sub>2</sub>, T5 NEMA 3, 7BCD, 9EFG

## Dimensions\* In Inches:

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\*Dimensions are approximate, not for construction purposes.  
 All barrel assemblies are 3/4"-14 NPSM thread size.