

EMP and EMPS barrel assemblies

Cl. I, Div. 1 & 2, Groups B, C, D
Cl. II, Div. 1, Groups E, F, G
Cl. II, Div. 2, Groups F, G
Cl. III
II 2 G Ex d IIB + H₂, T5

Explosionproof
Dust-ignitionproof
Raintight
Wet Locations
NEMA 3, 7BCD, 9EFG

5C

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 Section 1E detailing 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/EMAC 3, 7BCD, 9EFG
- UL standard: UL1203
- CSA standard: C22.2 No 30
- CENELEC
- ATEX certificate: ITS07 ATEX 15652U

Ordering information:

Select the catalog number 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	Cat. # Standard assembly
 (120V) [Ⓑ]	EMP009 [Ⓐ]

[Ⓐ]Add color symbol for each pilot light

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

[Ⓐ]LED pilot lights can be furnished in place of standard incandescent pilot lamps. Add suffix 'LED' to the end of the catalog number after the 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 counterclockwise, spring return to center.

Single pushbutton, double pushbutton, single operator



Diagram	Cat. # Short assembly	Cat. # Standard assembly
	EMPS019 [Ⓐ]	EMP019 [Ⓐ]
	EMPS029 [Ⓐ]	EMP029 [Ⓐ]

Double pushbutton, double operator

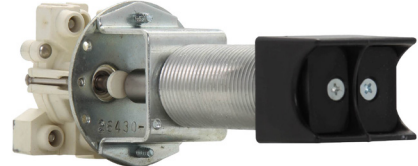


Diagram	Cat. # Short assembly	Cat. # Standard assembly
	EMPS039 [Ⓐ]	EMP039 [Ⓐ]

Two-position selector switch

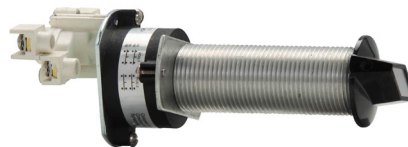


Diagram	Position 1	Position 2	Cat. # Short assembly	Cat. # Standard assembly
	A1 A2	A1 A2	EMPS049 [Ⓐ]	EMP049 [Ⓐ]
	A1 A2	B1 B2	EMPS059 [Ⓐ]	EMP059 [Ⓐ]

Three-position selector switch

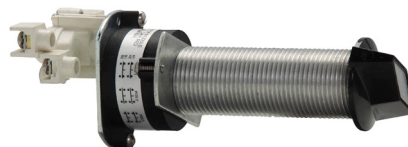
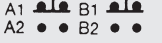
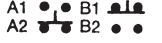


Diagram	Position 1	Position 2	Position 3	Cat. # Short assembly	Cat. # Standard assembly
	A1 A2	A1 A2	A1 A2	EMPS069 [Ⓐ]	EMP069 [Ⓐ]
	A1 A2	B1 B2	B1 B2	EMPS079 [Ⓐ]	EMP079 [Ⓐ]
	A1 A2	B1 B2	C1 C2	EMPS089 [Ⓐ]	EMP089 [Ⓐ]

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

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

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Group 2: For custom-built control panels

Illuminated pushbutton



Diagram		Cat. # Long assembly
	120V pilot light	EMP0090 ①
	120V pilot light	EMP0098 ①

①Add color symbol for each pilot light

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

Maintained contact pushbutton



Diagram		Cat. # Long assembly
Up	Down	
A1	A1	EMP098 ②
A2	A2	

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

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

Transformers – voltages above 125:

Nom. volts 50-60 Hz transformer	Primary voltage range	Suffix
220/110	220-240	T2
440/110	440-480	T4
550/110	550-600	T5

③LED pilot lights can be furnished in place of standard incandescent pilot lamps. Add suffix 'LED' to the end of the catalog number after the last color symbol.

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Two-position selector switch, key operated



Diagram

Position 1	Position 2	Key removal	Cat. # Short assembly	Cat. # Standard assembly
A1	A1	Both positions	EMPS0491 ②	EMP0491 ②
A2	A2	Left only	EMPS0492 ②	EMP0492 ②
		Right only	EMPS0493 ②	EMP0493 ②
A1 B1	A1 B1	Both positions	EMPS0591 ②	EMP0591 ②
A2 B2	A2 B2	Left only	EMPS0592 ②	EMP0592 ②
		Right only	EMPS0593 ②	EMP0593 ②

Three-position selector switch, key operated

Diagram

Position 1	Position 2	Position 3	Key removal	Cat. # Short assembly	Cat. # Standard assembly
A1	A1	A1	All	EMPS0691 ②	EMP0691 ②
A2	A2	A2	Center only	EMPS0692 ②	EMP0692 ②
			Left only	EMPS0693 ②	EMP0693 ②
			Right only	EMPS0694 ②	EMP0694 ②
A1 B1	A1 B1	A1 B1	All	EMPS0791 ②	EMP0791 ②
A2 B2	A2 B2	A2 B2	Center only	EMPS0792 ②	EMP0792 ②
			Left only	EMPS0793 ②	EMP0793 ②
			Right only	EMPS0794 ②	EMP0794 ②
A1 B1	A1 B1	A1 B1	All	EMPS0891 ②	EMP0891 ②
A2 B2	A2 B2	A2 B2	Center only	EMPS0892 ②	EMP0892 ②
			Left only	EMPS0893 ②	EMP0893 ②
			Right only	EMPS0894 ②	EMP0894 ②

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

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

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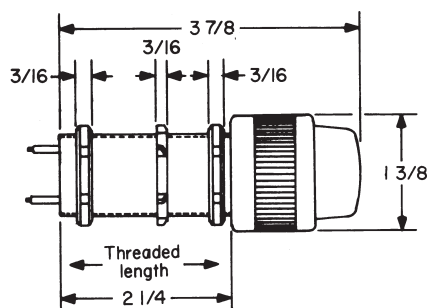
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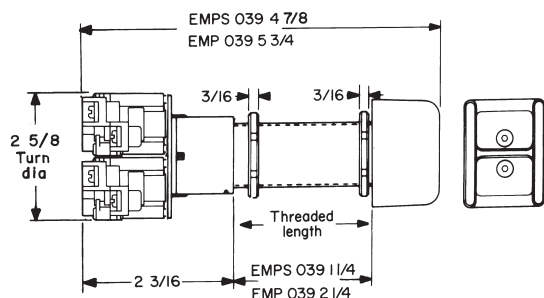
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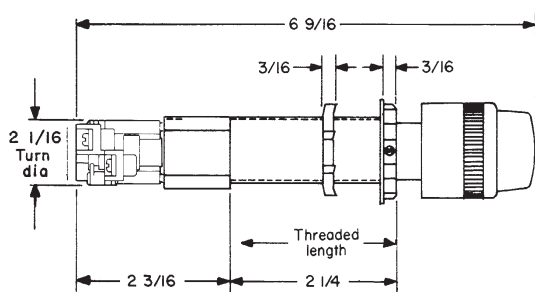
Dimensions^① (in inches):



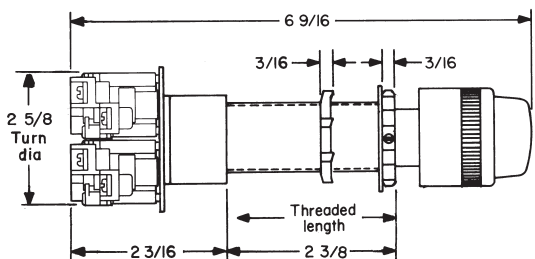
EMP009



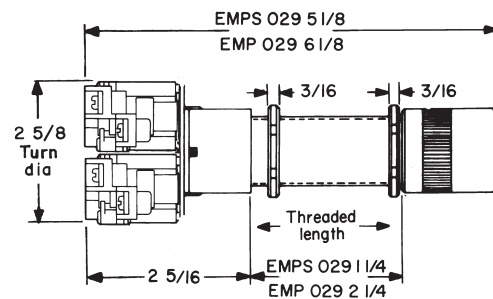
EMP-EMPS039



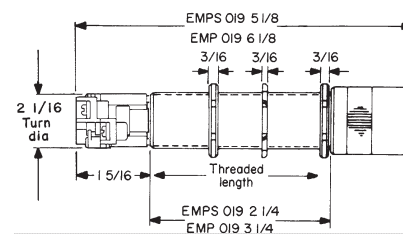
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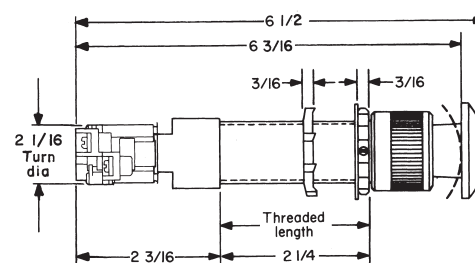
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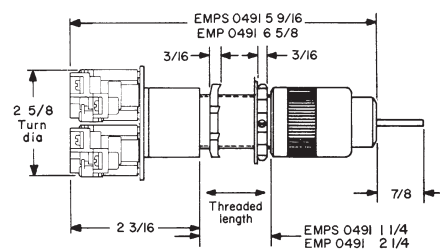
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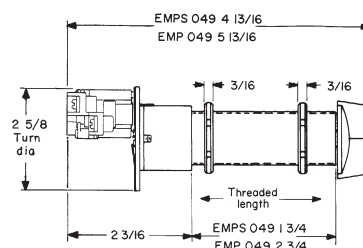
EMP-EMPS019



EMP098



EMP-EMPS0491, 0591, 0691, 0791, 0891 Series



EMP-EMPS049, 059, 069, 079, 089

^①Dimensions are approximate, not for construction purposes.
All barrel assemblies are 3/4"-14 NPSM thread size.