

## 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:

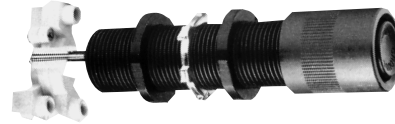
Standard assemblies are for replacement in complete EMP units or for custom-built control panels. Short assemblies are for custom-built control panels only. Both assemblies may be used with System 4 Control Stations.

### Pilot light†



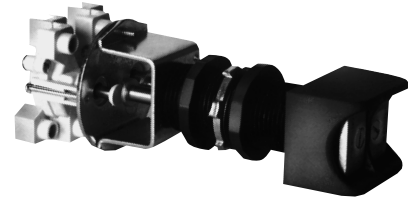
| Diagram | Standard Assembly Cat. # |
|---------|--------------------------|
| (120V)* | EMP009 ①                 |

### 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  B1  A2  B2     | A1  B1  A2  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  B1  A2  B2     | A1  B1  A2  B2 | A1  B1  A2  B2 | EMPS079 ②             | EMP079 ②                 |
| A1  B1  A2  B2     | A1  B1  A2  B2 | A1  B1  A2  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.

EMP and EMPS Barrel Assemblies

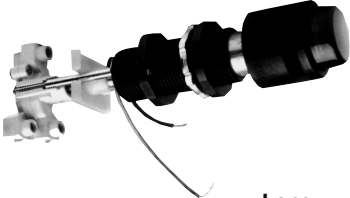
Cl. I, Div. 1 & 2, Groups B, C, D  
Cl. II, Div. 1, Groups E, F, G  
Cl. II, Div. 2, Groups F, G  
Cl. III  
II 2 G Ex d IIB + H<sub>2</sub>, T5

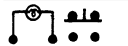
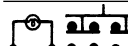
Explosionproof  
Dust-Ignitionproof  
Raintight  
Wet Locations  
NEMA 3, 7BCD, 9EFG

5C

Group 2: For custom-built control panels.

Illuminated pushbutton†



| Diagram                                                                                            | Long Assembly Cat. # |
|----------------------------------------------------------------------------------------------------|----------------------|
|  120V pilot light | EMP0090 ①            |
|  120V pilot light | EMP0098 ①            |

Maintained Contact Pushbutton



| Diagram                                                                                    |                                                                                            | Long Assembly Cat. # |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|----------------------|
| Up                                                                                         | Down                                                                                       |                      |
|  A1<br>A2 |  A1<br>A2 | EMP098 ②             |

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

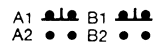
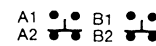
| Color | Symbol | Color | Symbol |
|-------|--------|-------|--------|
| Red   | J1     | Clear | J10    |
| Green | J3     | Blue  | J11    |
| Amber | J6     |       |        |

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

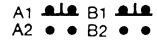
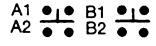
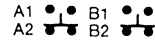
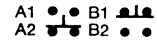
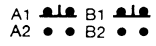
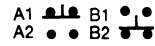
| Push Button Station Marking |       |       |           |
|-----------------------------|-------|-------|-----------|
| START                       | OFF   | RESET | LIGHT ON  |
| STOP                        | RUN   | TRIP  | HAND      |
| ON                          | JOG   | TEST  | AUTOMATIC |
| EMERGENCY                   | OPEN  | DOWN  | RAISE     |
| FORWARD                     | CLOSE | IN    | LOWER     |
| REVERSE                     | UP    | OUT   |           |

Two-position selector switch, key operated



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

Three-position selector switch, key operated

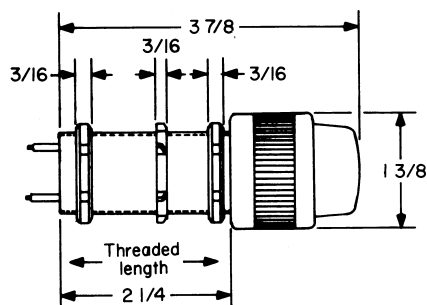
| Diagram                                                                                      |                                                                                              |                                                                                              | Key Removal  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

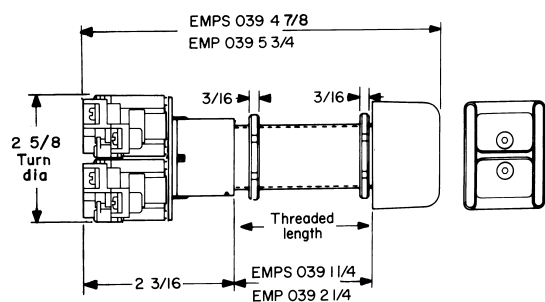
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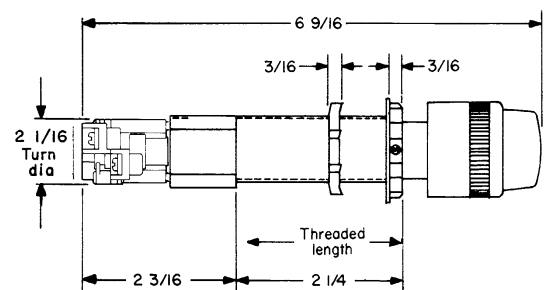
## Dimensions\* In Inches:



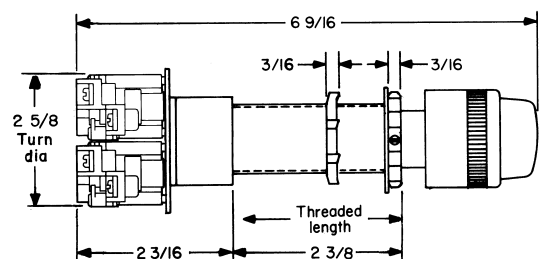
EMP009



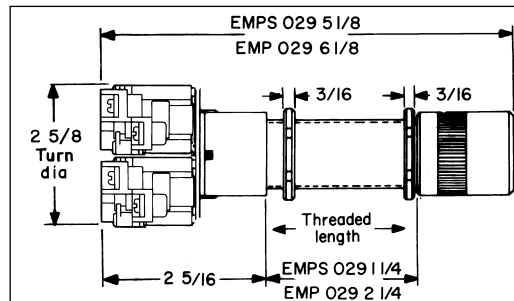
EMP-EMPS039



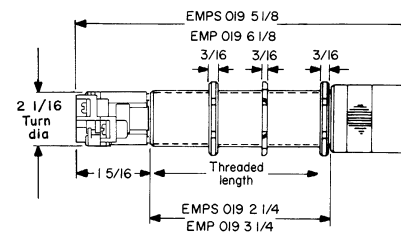
EMP0090



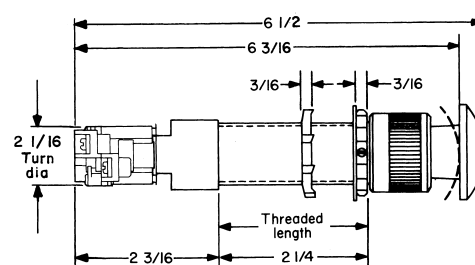
EMP0098



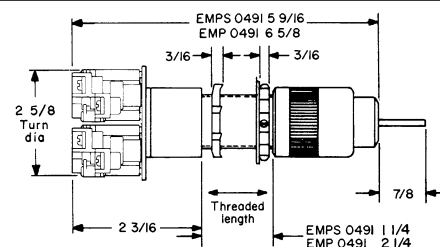
EMP-EMPS029



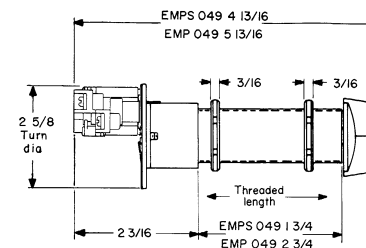
EMP-EMPS019



EMP098



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



EMP-EMPS049, 059, 069, 079, 089

\*Dimensions are approximate, not for construction purposes.

All barrel assemblies are 3/4"-14 NPSM thread size.