

# EFD/EFDB and EDS Series Factory Sealed Control Stations

Explosionproof, Dust-Ignitionproof

## NEC:

Class I, Division 1 and 2, Groups B<sup>+</sup>, C, D

Class II, Division 1 and 2, Groups E, F, G

Class III

NEMA 3, 7CD, 9EFG

## Applications

- Push buttons and selector switches are used in conjunction with contactors or magnetic starters for remote control of motors. They provide circuit control and/or selection.
- Pilot lights provide visual assurance that an electrical function is being performed at a remote or local location.
- EFD/EFDB and EDS factory sealed control stations confine arcing of device within the enclosure, preventing ignition of ignitable atmospheres during control operation of motors and other equipment.
- Used in classified areas where flammable vapors, gases or highly combustible dusts are present.
- For installation in chemical and petrochemical plants, refineries, and other process industries.

## Features

- EFD/EFDB Push Buttons and Selector Switches
  - Eliminate need for adding sealing fittings and compound at each conduit entrance.
  - Heavy-duty push buttons, 10 Amp, 600 Vac rated.
  - Dozens of possible combinations of push buttons, pilot lights and selector switches.
  - Smooth, rounded integral bushing in each EFD/EFDB hub protects conductor insulation.
  - Accurately tapped, tapered hubs for tight, rigid joints and ground continuity.
  - Stainless steel push button shaft operates within stainless steel bushing assuring long, maintenance free operation.
  - Push button and selector switch contacts are silver cadmium oxide which are "sealed" in lower phenolic chamber isolated from corrosive elements. Assures positive contact and long, trouble-free operation.
  - Enclosed stainless steel helper spring prevents accidental operation of push button in severe vibration installations.
  - Push button models also available with dust cap for use in areas where excessive dust, moisture or corrosive conditions are encountered.
  - Corrosion resistant captive stainless steel hex head cap screws hold EFKB covers to body.
  - All EFD/EFDB momentary push buttons are supplied with lockout type guards as standard. Hole in guard will accept locks with up to 1/4" hasp. Permits locking of push button to prevent unauthorized operation.
  - Clearly marked terminals with brass screws assure quick, easy wiring.
- EFD/EFDB Pilot Lights
  - Factory sealed pilot lights supplied with red jewel/guard assembly and 120 Vac/Vdc, 50/60 Hz, 6 Watt, Type 6S6 lamp.
  - Models also available in combination with factory sealed push buttons and selector switches.
- EFD/EFDB Selector Switches
  - Factory sealed selector switches furnished with nylon cam-operated, heavy-duty push buttons for either 2-position or 3-position maintained contact operation.
  - High thermal and arc resistance, high dielectric strength.
- EDS Push Buttons
  - Factory sealed — eliminates need for adding sealing fittings and compound at each conduit entrance.
  - Heavy duty, 10 Amp, 600 Vac.
  - Switch is enclosed in separate sealing chamber.



EFD/EFDB Push Button



EFD/EFDB Photocontrol



EDS Rocker Arm Push Button



EFD/EFDB Push Button with Dust Cap



EFD Combination Pilot Light and Push Buttons



EFD/EFDB Pilot Light



EFD/EFDB Selector Switch



EFD/EFDB Maintained Push Button

- Sealing chamber has smooth, double flanges that mate both to cover and mounting enclosure to provide flame-tight joints.
- Pigtail leads from push buttons are factory sealed in sealing well.
- Stainless steel hex head screws attach sealing chamber to cover and mounting enclosure.
- Side rocker arm push button has lockout holes.
- EFD/EFDB backbox supplied with internal ground screw.

## Standard Materials

- EFD/EFDB control stations: malleable iron body with copperfree (4/10 of 1% max.) aluminum cover
- SPBB push button: copperfree (4/10 of 1% max.) aluminum upper barrel and phenolic lower barrel with nylon plastic button (dust cap models have neoprene buttons)
- SPLN/SPLS pilot light: copperfree (4/10 of 1% max.) aluminum guard and body assembly; steel clamping ring; and tempered glass jewel
- SSBA selector switch: copperfree (4/10 of 1% max.) aluminum operator mechanism, nylon cam, and sealed phenolic contact block
- EDS control stations: malleable iron body and cover; copperfree (4/10 of 1% max.) aluminum sealing chamber; and nylon operating handle

♦ Select items suitable for Class I, Division 1 and 2, Groups B, C and D; Class II, Groups E, F and G and Class III. See product selection pages for suitable items.



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### Standard Finishes

- EFD/EFDB control stations: body, triple-coat—(1) zinc electroplate, (2) chromate, and (3) epoxy powder coat
- SPBB push button, SPLN/SPLS pilot light and SSBA selector switch: natural finish
- EDS control stations: body and cover: triple-coat—(1) zinc electroplate, (2) chromate, and (3) epoxy powder coat sealing chamber, natural finish

### Options

- 1- or 2-gang copperfree (4/10 of 1% max.) aluminum bodies and covers available. Add suffix — **A**.
- Three position selector switches with modified operation.
  - Momentary contact right position, spring return to center, maintained contact left position. Add suffix — **SRC**.
  - Momentary contact left position, spring return to center, maintained contact right position. Add suffix — **SLC**.
  - Alternate contacts add suffix — **ALT**.
- EFD/EFDB selector switch lockout locks two or three position handle in any position. Add suffix — **LD**.
- Push button front operated mushroom head (momentary contact): Order by suffixes for desired color as follows:
  - Red — **NMRBRE**
  - Green — **NMRBGR**
  - Black — **NMRBBL**
- EFD/EFDB pilot light jewel/guard assembly. Order by suffixes if color desired is other than red, as follows:
  - Amber — **JGBA**
  - Blue — **JGBB**
  - Clear — **JGBC**
  - Green — **JGBG**
  - Opal — **JGBO**
- For colored LED jewel/guard assembly, order by suffixes:
  - Red — **LEDR**
  - Green — **LEDG**
  - Amber — **LEDA**
- EFD/EFDB pilot light transformers for single pilot light per gang. Order by suffix:

| Primary Voltage | Lamp Voltage | Suffix |
|-----------------|--------------|--------|
| 220             | 120          | -TR-2  |
| 277             | 120          | -TR-3  |
| 440             | 120          | -TR-4  |
| 550             | 120          | -TR-5  |

- EFD and EDS units may be supplied with brazed hubs as 3-, 4-, and 5-gang in a variety of hub configurations. See Ordering Information page for how to order these and other "custom" units by adding suffixes to mounting body catalog numbers.
- Securing Rod for EFD/EFDB Push Button Lockout Guard. Add suffix — **SR**.
- NPBRKT** Nameplate Mounting Bracket to make circuit description/identification easy.
  - Pre-drilled holes in bottom of bracket allow direct mounting to control stations with existing cover bolts.
  - Pre-drilled holes in middle of bracket allow mounting of customer's circuit identification nameplate; epoxy glue may also be used for mounting (phenolic nameplate not included).
  - Bracket eliminates costly field installation of drilling and tapping to accommodate circuit identification nameplate.
  - Brackets fit side-by-side on 2-, 3- and 4-gang boxes and 3-devices.

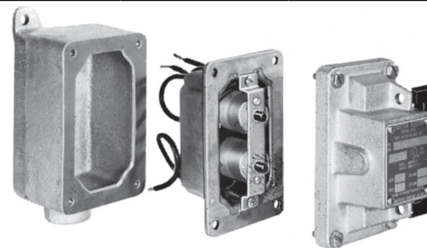
### NEC Certifications and Compliances

- UL Standards: UL 508, UL 698, UL 1203
- cULus Listed: E10449, E81751

### Related Products

- For Hazardous Location Photocontrols, see *Lighting Section*.

### Illustrated Features



EDS factory sealed rocker arm push button control station — shows separate sealing chamber and device construction. Rocker arm has holes for lock.

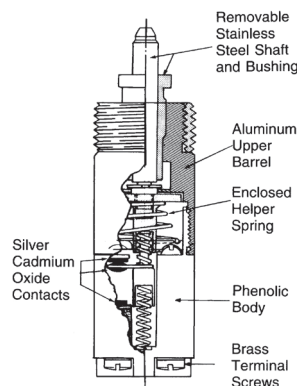


Securing Rod for EFD/EFDB Push Button Lockout Guard — available as an optional item as catalog number NBL-SR (single guard only) or add Suffix — SR to push button catalog number. Lockout Guard, furnished as standard with the EFD/EFDB push button, may also be padlocked.

SPBB factory sealed push button used in EFD/EFDB Series — standard type and unit with dust cap.



### SPBB Design Features



APPLETON

CONTROLS: NEC/CEC EXPLOSIONPROOF CONTROL STATIONS AND SWITCHES

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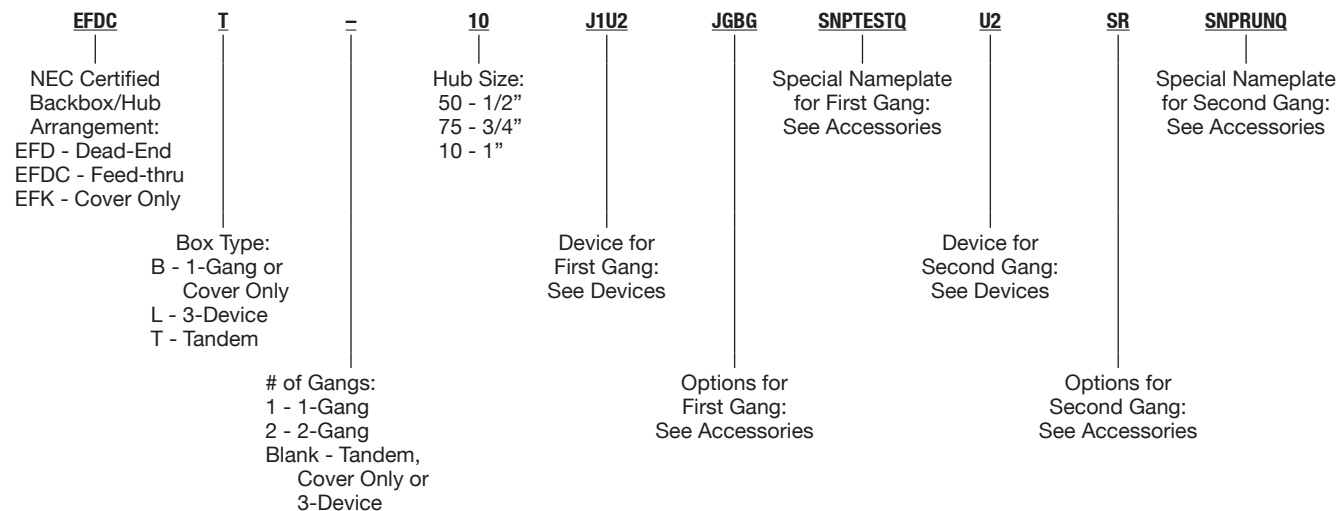
Class I, Division 1 and 2, Groups B♦, C, D

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NEMA 3, 7CD, 9EFG

## Catalog Numbering Guide



## Full Catalog # EFDCT10-J1U2-JGBG-SNPTESTQ-U2-SNPTESTQ-SNPRUNQ

Feed-Thru Tandem Box with 1" Hubs.

In Gang #1: 2 Momentary Push Buttons and a Green Pilot Light.

In Gang #2: 2 Momentary Push Buttons with One Securing Rod.

With Special "Test" and "Run" Push Button Nameplates.

## Options

| Options Description                                         | Suffix |
|-------------------------------------------------------------|--------|
| Momentary Push Button Securing Rod                          | SR     |
| Selector Switch Lockout                                     | LD     |
| Spring Return From Right Selector Switch (3 Positions Only) | SRC    |
| Spring Return From Left Selector Switch (3 Positions Only)  | SLC    |
| Alternate Contacts Selector Switch                          | ALT    |
| Change One Red Lens to Green Lens                           | JGBG   |
| Change One Red Lens to Opal Lens                            | JGBO   |
| Change One Red Lens to Amber Lens                           | JGBA   |
| Change One Red Lens to Blue Lens                            | JGBB   |
| Change One Red Lens to Clear Lens                           | JGBC   |
| Add 220/120 Vac Transformer (J1 Device Only)                | TR2    |
| Add 277/120 Vac Transformer (J1 Device Only)                | TR3    |
| Add 440/120 Vac Transformer (J1 Device Only)                | TR4    |
| Add 550/120 Vac Transformer (J1 Device Only)                | TR5    |
| Change One Red Pilot to Red LED                             | LEDR   |
| Change One Red Lens to Green LED                            | LEDG   |
| Change One Red Lens to Amber LED                            | LEDA   |
| Add Red Mushroom Head to Momentary Push Button              | NMRBRE |
| Add Black Mushroom Head to Momentary Push Button            | NMRBBL |
| Add Green Mushroom Head to Momentary Push Button            | NMRBGR |
| Locking Guard for Maintained Push Button                    | SMPBLG |

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| Devices                                                                        |                                     |                          |        |
|--------------------------------------------------------------------------------|-------------------------------------|--------------------------|--------|
| Device Description                                                             | Available in<br>1-G, 2-G,<br>Tandem | Available in<br>3-Device | Suffix |
| One Pilot Light (Red Standard)                                                 | Y                                   |                          | J1     |
| Two Pilot Lights                                                               | Y                                   |                          | J2     |
| One Pilot Light and One Momentary Push Button                                  | Y                                   |                          | J1U1   |
| One Pilot Light and Two Momentary Push Buttons                                 | Y                                   | Y                        | J1U2   |
| One Pilot Light and One Maintained Push Button                                 | Y                                   |                          | J1UM1  |
| One Pilot Light and One Dust Cap Push Button                                   | Y                                   |                          | J1DU1  |
| One Pilot Light and One 12 Selector Switch (2 Position, 2 Circuit)             | Y                                   |                          | J112   |
| One Pilot Light and One 35 Selector Switch (2 Position, 4 Circuit)             | Y                                   |                          | J135   |
| One Pilot Light and One 102 Selector Switch (3 Position, 2 Circuit)            | Y                                   |                          | J1102  |
| One Pilot Light and One 345 Selector Switch (3 Position, 4 Circuit)            | Y                                   |                          | J1345  |
| One Monetary Push Button                                                       | Y                                   |                          | U1     |
| Two Monetary Push Buttons                                                      | Y                                   |                          | U2     |
| Two Side-By-Side Momentary Push Buttons                                        | Y                                   |                          | U2DBL  |
| Three Monetary Push Buttons                                                    | Y                                   | Y                        | U3     |
| One Momentary Push Button and One Maintained Push Button                       | Y                                   |                          | U1UM1  |
| One Momentary Push Button and One Dust Cap Push Button                         | Y                                   |                          | U1DU1  |
| One Momentary Push Button and One 12 Selector Switch (2 Position, 2 Circuit)   | Y                                   |                          | U112   |
| One Momentary Push Button and One 35 Selector Switch (2 Position, 4 Circuit)   | Y                                   |                          | U135   |
| One Momentary Push Button and One 102 Selector Switch (3 Position, 2 Circuit)  | Y                                   |                          | U1102  |
| One Momentary Push Button and One 345 Selector Switch (3 Position, 4 Circuit)  | Y                                   |                          | U1345  |
| One Maintained Push Button (Mushroom Head - Red)                               | Y                                   |                          | UM1    |
| Two Maintained Push Buttons                                                    | Y                                   |                          | UM2    |
| One Maintained and One Dust Cap Push Button                                    | Y                                   |                          | UM1DU1 |
| One Maintained Push Button and One 12 Selector Switch (2 Position, 2 Circuit)  | Y                                   |                          | UM112  |
| One Maintained Push Button and One 35 Selector Switch (2 Position, 4 Circuit)  | Y                                   |                          | UM135  |
| One Maintained Push Button and One 102 Selector Switch (3 Position, 2 Circuit) | Y                                   |                          | UM1102 |
| One Maintained Push Button and One 345 Selector Switch (3 Position, 4 Circuit) | Y                                   |                          | UM1345 |
| One Dust Cap Push Button                                                       | Y                                   |                          | DU1    |
| Two Dust Cap Push Buttons                                                      | Y                                   |                          | DU2    |
| One Dust Cap and One 12 Selector Switch (2 Position, 2 Circuit)                | Y                                   |                          | DU112  |
| One Dust Cap and One 35 Selector Switch (2 Position, 4 Circuit)                | Y                                   |                          | DU135  |
| One Dust Cap and One 102 Selector Switch (3 Position, 2 Circuit)               | Y                                   |                          | DU1102 |
| One Dust Cap and One 345 Selector Switch (3 Position, 4 Circuit)               | Y                                   |                          | DU1345 |
| One 12 Selector Switch (2 Position, 2 Circuit)                                 | Y                                   |                          | 12     |
| One 35 Selector Switch (2 Position, 4 Circuit)                                 | Y                                   |                          | 35     |
| One 102 Selector Switch (3 Position, 2 Circuit)                                | Y                                   |                          | 102    |
| One 345 Selector Switch (3 Position, 4 Circuit)                                | Y                                   |                          | 345    |
| 120 Vac Photocell                                                              | Y                                   |                          | PC120  |
| 277 Vac Photocell                                                              | Y                                   |                          | PC277  |
| Three Dust Cap Push Buttons                                                    |                                     | Y                        | DU3    |
| One Momentary and Two Maintained Push Buttons                                  |                                     | Y                        | U1UM2  |
| Two Momentary and One Maintained Push Buttons                                  | Y                                   | Y                        | U2UM1  |
| Three Maintained Push Buttons                                                  |                                     | Y                        | UM3    |
| Three Pilot Lights                                                             |                                     | Y                        | J3     |
| Two Pilot Lights and One Momentary Push Button                                 |                                     | Y                        | J2U1   |
| One Pilot Light and Two Dust Cap Push Buttons                                  |                                     | Y                        | J1DU2  |
| Two Pilot Lights and One Dust Cap Push Button                                  |                                     | Y                        | J2DU1  |
| One Pilot Light and Two Maintained Push Buttons                                |                                     | Y                        | J1UM2  |
| Two Pilot Lights and One Maintained Push Button                                |                                     | Y                        | J2UM1  |

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Class II, Division 1 and 2, Groups E, F, G

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NEMA 3, 7CD, 9EFG

## Nameplates ①

| Description                                                  | Suffix    |
|--------------------------------------------------------------|-----------|
| <b>Mushroom Head Push Buttons (Maintained and Momentary)</b> |           |
| Start                                                        | MNPSTQ    |
| Stop                                                         | MNPSPQ    |
| Emergency Stop                                               | MNPESTPQ  |
| Blank                                                        | MNPBQ     |
| <b>Pilot Light Nameplates</b>                                |           |
| Blank                                                        | LNPBQ     |
| Forward                                                      | LNPFWDQ   |
| Jog                                                          | LNPJOGQ   |
| Run                                                          | LNPRUNQ   |
| Stop                                                         | LNPSQ     |
| Start                                                        | LNPSTQ    |
| Down                                                         | LNPDOWNQ  |
| Fast                                                         | LNPFASTQ  |
| Slow                                                         | LNPSLOWQ  |
| Raise                                                        | LNPRAISEQ |
| Lower                                                        | LNPLOWERQ |
| Reset                                                        | LNPRESETQ |
| Off                                                          | LNPOFFQ   |
| On                                                           | LNPONQ    |
| Reverse                                                      | LNPREVQ   |
| Close                                                        | LNPCLOSEQ |
| Open                                                         | LNPOPENQ  |
| Up                                                           | LNPUPQ    |
| Test                                                         | LNPTTESTQ |
| Low                                                          | LNPLWQ    |
| High                                                         | LNPHIGHQ  |
| <b>Two Position Selection Switch Nameplates</b>              |           |
| Forward—Reverse                                              | SLNPFRQ   |
| Hand—Auto ②                                                  | SLNPHAQ   |
| On—Off                                                       | SLNPOO    |
| Start—Stop                                                   | SLNPSS    |
| Blank                                                        | SLNPBQ    |
| Up—Down                                                      | SLNPUDQ   |
| Run—Jog                                                      | SLNPRJQ   |
| Auto—Hand                                                    | SLNPAHQ   |
| Off—Remote                                                   | SLNPORQ   |

| Description                                                                     | Suffix    |
|---------------------------------------------------------------------------------|-----------|
| <b>Three Position Selection Switch Nameplates</b>                               |           |
| Forward-Off-Reverse                                                             | SLNPFORQ  |
| Hand—Off—Auto ②                                                                 | SLNPHOAQ  |
| Run—Off—Jog                                                                     | SLNPROJQ  |
| Blank                                                                           | SLNPB3    |
| Reverse—Off—Forward                                                             | SLNPROFQ  |
| Auto—Off—Hand                                                                   | SLNPAOHQ  |
| Hand—Off—Remote                                                                 | SLNPHORQ  |
| 1—Off—2                                                                         | SLNP102Q  |
| Jog—Off—Run                                                                     | SLNPJORQ  |
| Stop—Run—Start                                                                  | SLNPSRSQ  |
| Local—Off—Remote                                                                | SLNPLOPQ  |
| Jog—Off—Auto                                                                    | SLNP-JOAQ |
| <b>Momentary Push Buttons</b>                                                   |           |
| <i>For Rectangular Weatherboot Style Only (Not for round weatherboot style)</i> |           |
| Blank ②                                                                         | SNPBQ     |
| Forward                                                                         | SNPFWDQ   |
| Jog                                                                             | SNPJOGQ   |
| Run                                                                             | SNPRUNQ   |
| Stop ②                                                                          | SNPSPQ    |
| Start ②                                                                         | SNPSTQ    |
| Down                                                                            | SNPDOWNQ  |
| Fast                                                                            | SNPFASTQ  |
| Slow                                                                            | SNPSLOWQ  |
| Raise                                                                           | SNPRAISEQ |
| Lower                                                                           | SNPLOWERQ |
| Reset                                                                           | SNPRESETQ |
| Off                                                                             | SNPOFFQ   |
| On                                                                              | SNPONQ    |
| Reverse                                                                         | SNPREVQ   |
| Close                                                                           | SNPCLOSEQ |
| Open                                                                            | SNPOPENQ  |
| Up                                                                              | SNPUPQ    |
| Test                                                                            | SNPTTESTQ |
| Low                                                                             | SNPLWQ    |
| High                                                                            | SNPHIGHQ  |

① Custom nameplates are not available.

② Included as standard (no need to use suffix).

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10 Amp, 600 Vac Max. for Heavy Duty Use. Furnished with Internal Ground Screw.

### NEC/CEC:

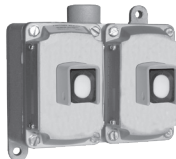
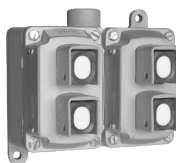
Class I, Division 1, Groups B, C, D

Class I, Division 2, Groups B, C, D

Class II, Division 1 and 2, Groups E, F, G

Class III

NEMA 3, 7CD, 9EFG

|                                                                                     | Hub Size<br>(Inches) | Description             | Nameplate<br>Marking                                                                | Catalog Number    |                          |
|-------------------------------------------------------------------------------------|----------------------|-------------------------|-------------------------------------------------------------------------------------|-------------------|--------------------------|
|                                                                                     |                      |                         |                                                                                     | Dead-End          | Feed-Thru                |
| 1-Gang ① — Momentary Contact                                                        |                      |                         |                                                                                     |                   |                          |
|    | 1/2                  | 1 Circuit<br>Universal  |    | Start/Stop        | EFDB150-U1 EFDCB150-U1   |
|                                                                                     | 3/4                  |                         |                                                                                     |                   | EFDB175-U1 EFDCB175-U1   |
|                                                                                     | 1                    |                         |                                                                                     |                   | EFDB110-U1 EFDCB110-U1   |
|    | 1/2                  | 2 Circuits<br>Universal |    | Start/Stop        | EFDB150-U2 EFDCB150-U2   |
|                                                                                     | 3/4                  |                         |                                                                                     |                   | EFDB175-U2 EFDCB175-U2   |
|                                                                                     | 1                    |                         |                                                                                     |                   | EFDB110-U2 EFDCB110-U2   |
| 1-Gang ① — Red Mushroom Head — Maintained Contact – Emergency Stop Nameplate        |                      |                         |                                                                                     |                   |                          |
|   | 1/2                  | 1 Circuit<br>Universal  |    | Emergency<br>Stop | EFDB150-UM1 EFDCB150-UM1 |
|                                                                                     | 3/4                  |                         |                                                                                     |                   | EFDB175-UM1 EFDCB175-UM1 |
|                                                                                     | 1                    |                         |                                                                                     |                   | EFDB110-UM1 EFDCB110-UM1 |
| 2-Gang ① — Momentary Contact                                                        |                      |                         |                                                                                     |                   |                          |
|  | 1/2                  | 2 Circuits<br>Universal |  | Start/Stop        | EFD250-U1 EFDC250-U1     |
|                                                                                     | 3/4                  |                         |                                                                                     |                   | EFD275-U1 EFDC275-U1     |
|                                                                                     | 1                    |                         |                                                                                     |                   | EFD210-U1 EFDC210-U1     |
|  | 1/2                  | 4 Circuits<br>Universal |  | Start/Stop        | EFD250-U2 EFDC250-U2     |
|                                                                                     | 3/4                  |                         |                                                                                     |                   | EFD275-U2 EFDC275-U2     |
|                                                                                     | 1                    |                         |                                                                                     |                   | EFD210-U2 EFDC210-U2     |
| 3-Device ② — Momentary Contact                                                      |                      |                         |                                                                                     |                   |                          |
|  | 1/2                  | 3 Circuits<br>Universal |  | Start/Stop        | EFDL50-U3 EFDCL50-U3     |
|                                                                                     | 3/4                  |                         |                                                                                     |                   | EFDL75-U3 EFDCL75-U3     |
|                                                                                     | 1                    |                         |                                                                                     |                   | EFDL10-U3 EFDCL10-U3     |

① Malleable iron body and aluminum cover. For aluminum body, add suffix —A.

② Aluminum body not available.

◆ Shaded area indicates items suitable for Class I, Division 1 and 2, Groups B, C and D; Class II, Groups E, F and G and Class III.  
For Class I, Division 1, Group B, external seals must be installed at each conduit entrance.

APPLETON™

CONTROLS: NEC/CEC EXPLOSIONPROOF CONTROL STATIONS AND SWITCHES

# EFD/EFDB and EDS Series Factory Sealed Control Stations

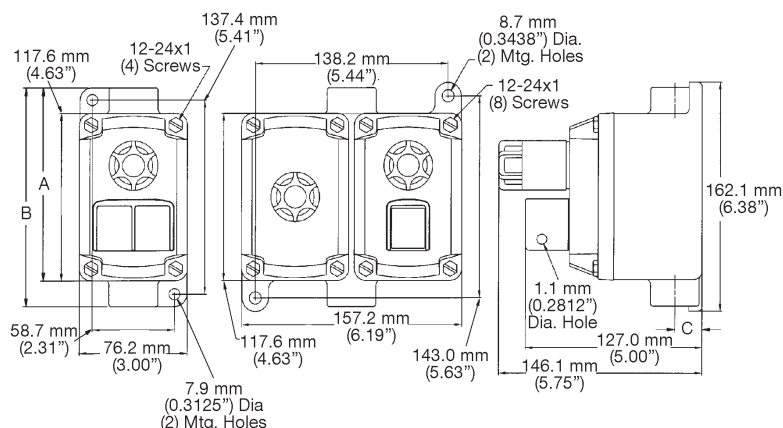
## EFD/EFDB 1- and 2-Gang

NEC/CEC:

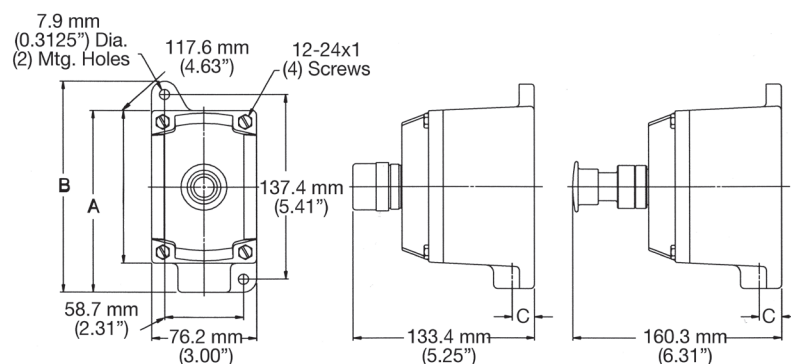
Class I, Division 1 and 2, Groups C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III  
NEMA 7CD, 9EFG

### Dimensions in Millimeters (Inches)

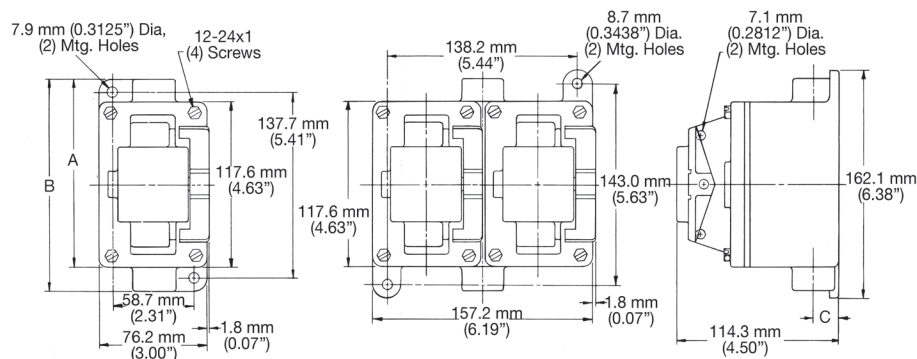
#### EFD/EFDB — 1- and 2-Gang Combination Pilot Light and Push Buttons



#### EFD/EFDB — 1-Gang Dust Cap Push Button and 1-Gang Maintained Contact Push Button



#### EDS — 1- and 2-Gang Rocker Arm Push Button



| Hub Size (Inches) | Dimensions in Millimeters (Inches) |              |             |
|-------------------|------------------------------------|--------------|-------------|
|                   | A                                  | B            | C           |
| 1/2 and 3/4       | 136.7 (5.38)                       | 155.7 (6.13) | 19.8 (0.78) |
| 1                 | 139.7 (5.50)                       | 160.3 (6.31) | 23.9 (0.94) |