EFD/EFDB and EDS Series Factory Sealed Control Stations

Explosionproof, Dust-Ignitionproof

NEC:
Class I, Division 1 and 2, Groups B♦, 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.

EFDB Push Button

EFDB Photocontrol

EDS Rocker Arm Push Button

EFDB Push Button with Dust Cap

EFD Combination Pilot Light and Push Buttons

EFDB Pilot Light

EFDB Selector Switch

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

- EFDB control stations: malleable iron body with copperfree (4/10 of 1% max.) aluminum cover
- SPBB push putton: 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.
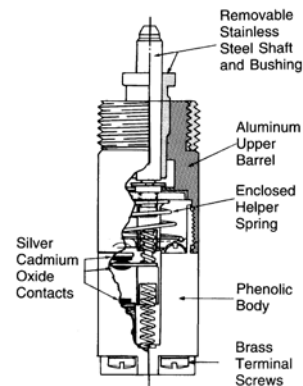

Securing Rod for EFD/EFDB Push Button Lockout Guard — available as an optional item as catalog number NBL–SR (single guard only) or add Suffix — SR to push button catalog number. Lockout Guard, furnished as standard with the EFD/EFDB push button, may also be padlocked.

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

SPBB Design Features

Removable Stainless Steel Shaft and Bushing
Aluminum Upper Barrel
Enclosed Helper Spring
Silver Cadmium Oxide Contacts
Phenolic Body
Brass Terminal Screws

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EFD/EFDB and EDS Series Factory Sealed Control Stations

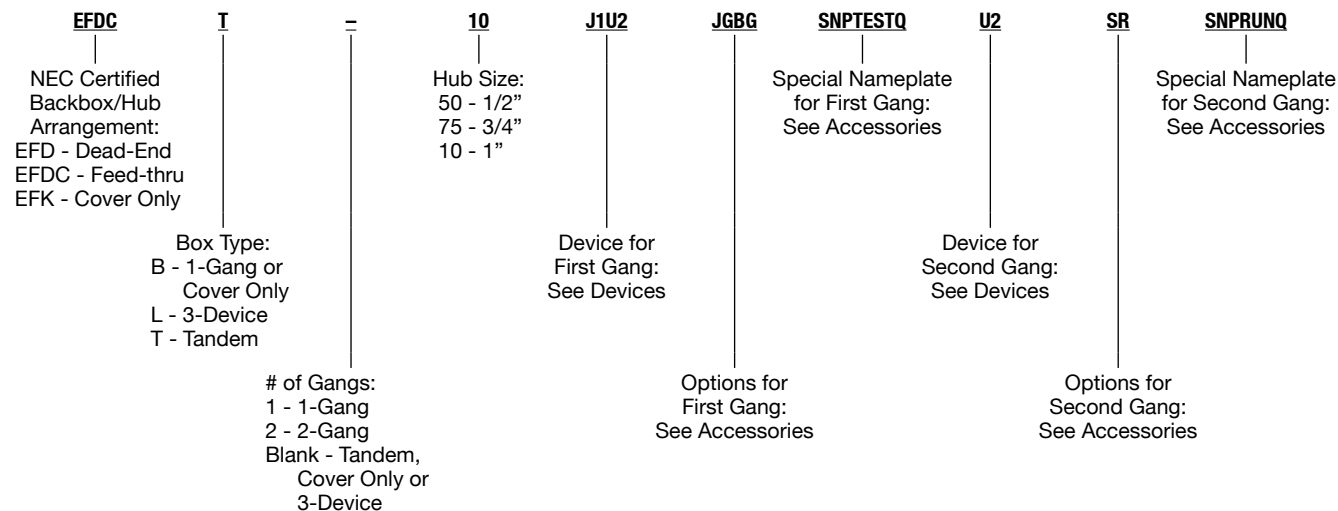## Explosionproof, Dust-Ignitionproof

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Class II, Division 1 and 2, Groups E, F, G
Class III
NEMA 3, 7CD, 9EFG

Catalog Numbering Guide

| EFDC | T | – | 10 | J1U2 | JGBG | SNPTESTQ | U2 | SR | SNPRUNQ |

EFDC — NEC Certified Backbox/Hub Arrangement:
EFD - Dead-End
EFDC - Feed-thru
EFK - Cover Only

T — Box Type:
B - 1-Gang or Cover Only
L - 3-Device
T - Tandem

# of Gangs:
1 - 1-Gang
2 - 2-Gang
Blank - Tandem, Cover Only or 3-Device

10 — Hub Size:
50 - 1/2"
75 - 3/4"
10 - 1"

J1U2 — Device for First Gang: See Devices

JGBG — Options for First Gang: See Accessories

SNPTESTQ — Special Nameplate for First Gang: See Accessories

U2 — Device for Second Gang: See Devices

SR — Options for Second Gang: See Accessories

SNPRUNQ — Special Nameplate for Second Gang: See Accessories

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 1−G, 2−G, Tandem	Available in 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 Button	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

♦ *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.*
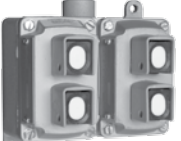
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Nameplates ①

Description	Suffix	Description	Suffix
Mushroom Head Push Buttons (Maintained and Momentary)		**Three Position Selection Switch Nameplates**	
Start	**MNPSTQ**	Forward-Off-Reverse	**SLNPFORQ**
Stop	**MNPSPQ**	Hand—Off—Auto ②	**SLNPHOAQ**
Emergency Stop	**MNPESTPQ**	Run—Off—Jog	**SLNPROJQ**
Blank	**MNPBQ**	Blank	**SLNPB3**
Pilot Light Nameplates		Reverse—Off—Forward	**SLNPROFQ**
Blank	**LNPBQ**	Auto—Off—Hand	**SLNPAOHQ**
Forward	**LNPFWDQ**	Hand—Off—Remote	**SLNPHORQ**
Jog	**LNPJOGQ**	1—Off—2	**SLNP102Q**
Run	**LNPRUNQ**	Jog—Off—Run	**SLNPJORQ**
Stop	**LNPSPQ**	Stop—Run—Start	**SLNPSRSQ**
Start	**LNPSTQ**	Local—Off—Remote	**SLNPLORQ**
Down	**LNPDOWNQ**	**Momentary Push Buttons**	
Fast	**LNPFASTQ**	*For Rectangular Weatherboot Style Only (Not for round weatherboot style)*	
Slow	**LNPSLOWQ**	Blank ②	**SNPBQ**
Raise	**LNPRAISEQ**	Forward	**SNPFWDQ**
Lower	**LNPLOWERQ**	Jog	**SNPJOGQ**
Reset	**LNPRESETQ**	Run	**SNPRUNQ**
Off	**LNPOFFQ**	Stop ②	**SNPSPQ**
On	**LNPONQ**	Start ②	**SNPSTQ**
Reverse	**LNPREVQ**	Down	**SNPDOWNQ**
Close	**LNPCLOSEQ**	Fast	**SNPFASTQ**
Open	**LNPOPENQ**	Slow	**SNPSLOWQ**
Up	**LNPUPQ**	Raise	**SNPRAISEQ**
Test	**LNPTESTQ**	Lower	**SNPLOWERQ**
Low	**LNPLOWQ**	Reset	**SNPRESETQ**
High	**LNPHIGHQ**	Off	**SNPOFFQ**
Two Position Selection Switch Nameplates		On	**SNPONQ**
Forward—Reverse	**SLNPFRQ**	Reverse	**SNPREVQ**
Hand—Auto ②	**SLNPHAQ**	Close	**SNPCLOSEQ**
On—Off	**SLNPOO**	Open	**SNPOPENQ**
Start—Stop	**SLNPSS**	Up	**SNPUPQ**
Blank	**SLNPBQ**	Test	**SNPTESTQ**
Up—Down	**SLNPUDQ**	Low	**SNPLOWQ**
Run—Jog	**SLNPRJQ**	High	**SNPHIGHQ**
Auto—Hand	**SLNPAHQ**		
Off—Remote	**SLNPORQ**		

① *Custom nameplates are not available.*
② *Included as standard (no need to use suffix).*
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EMERSON
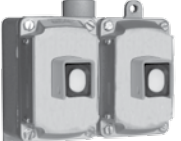
EFD/EFDB Series Factory Sealed Control Stations

Explosionproof, Dust-Ignitionproof

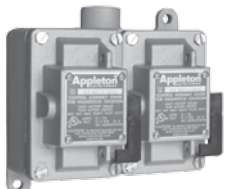10 Amp, 600 Vac Max. for Heavy Duty Use. Furnished with Internal Ground Screw.

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 (Inches)	Description		Nameplate Marking	Catalog Number	
					Dead–End	Feed–Thru
1-Gang ♦ ① — Momentary Contact						
	1/2	1 Circuit Universal		Start/Stop	**EFDB150-U1**	**EFDCB150-U1**
	3/4				**EFDB175-U1**	**EFDCB175-U1**
	1				**EFDB110-U1**	**EFDCB110-U1**
	1/2	2 Circuits 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 Universal		Emergency 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 Universal		Start/Stop	**EFD250-U1**	**EFDC250-U1**
	3/4				**EFD275-U1**	**EFDC275-U1**
	1				**EFD210-U1**	**EFDC210-U1**
	1/2	4 Circuits 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 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.*
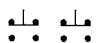② *Aluminum body not available.*

♦ *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.

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EFD/EFDB Series Factory Sealed Control Stations

Combination Push Button and Pilot Light. Explosionproof, Dust-Ignitionproof

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

NEC/CEC:
Class I, Division 1, Groups B♦, C, D
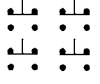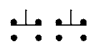*Class I, Division 2, Groups B, C, D*
Class II, Division 1 and 2, Groups E, F, G
Class III
NEMA 3, 7CD, 9EFG

Hub Size (Inches)	Description	Nameplate Marking		Catalog Number Dead–End	Feed–Thru
1-Gang ♦ ①					
1/2	1 Circuit Universal and 1 Pilot Light		Start/Stop	EFDB150-J1U1	EFDCB150-J1U1
3/4				EFDB175-J1U1	EFDCB175-J1U1
1				EFDB110-J1U1	EFDCB110-J1U1
1/2	2 Circuit Universal and 1 Pilot Light		Start/Stop	EFDB150-J1U2	EFDCB150-J1U2
3/4				EFDB175-J1U2	EFDCB175-J1U2
1				EFDB110-J1U2	EFDCB110-J1U2
2-Gang					
1/2	2 Circuit Universal and 1 Pilot Light		Start/Stop	EFD250-J1U2	EFDC250-J1U2
3/4				EFD275-J1U2	EFDC275-J1U2
1				EFD210-J1U2	EFDC210-J1U2
1/2	2 Circuit Universal and 2 Pilot Lights		Start/Stop	EFD250-J2U2	EFDC250-J2U2
3/4				EFD275-J2U2	EFDC275-J2U2
1				EFD210-J2U2	EFDC210-J2U2
3-Device ②					
1/2	2 Circuit Universal and 1 Pilot Light		Start/Stop	EFDL50-J1U2	EFDCL50-J1U2
3/4				EFDL75-J1U2	EFDCL75-J1U2
1				EFDL10-J1U2	EFDCL10-J1U2
1/2	1 Circuit Universal and 2 Pilot Lights		Start/Stop	EFDL50-J2U1	EFDCL50-J2U1
3/4				EFDL75-J2U1	EFDCL75-J2U1
1				EFDL10-J2U1	EFDCL10-J2U1
2-Gang Tandem ②					
1/2	2 Circuit Universal and 1 Pilot Light		Start/Stop	EFDT50-J1U2	EFDCT50-J1U2
3/4				EFDT75-J1U2	EFDCT75-J1U2
1				EFDT10-J1U2	EFDCT10-J1U2
1/2	2 Circuit Universal and 2 Pilot Lights		Start/Stop	EFDT50-J2U2	EFDCT50-J2U2
3/4				EFDT75-J2U2	EFDCT75-J2U2
1				EFDT10-J2U2	EFDCT10-J2U2

1-Gang: 1 Circuit, 1 Pilot Light · 2 Circuit, 1 Pilot Light
2-Gang: 2 Circuit, 1 Pilot Light · 2 Circuit, 2 Pilot Light
3-Device: 2 Circuit, 1 Pilot Light · 1 Circuit, 2 Pilot Lights
2-Gang Tandem: 2 Circuit, 2 Pilot Lights · 2 Circuit, 1 Pilot Light

For tandem bodies, external seals must be installed within 1.5 meters (5 feet) of each conduit entrance for Class I, Groups C and D.
Pilot Lights furnished with 6 Watt, 120 Vac 6S6 lamp and red jewel—Other colored jewels and LED's listed under accessories and parts.

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.

EDS Series Factory Sealed Control Stations

Push Button. With Rocker Arm Handle. Explosionproof, Dust-Ignitionproof

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

NEC/CEC:
Class I, Division 1 and 2, Groups B♦, C, D
Class II, Division 1 and 2, Groups E, F, G
Class III
NEMA 3, 7CD, 9EFG

Hub Size (Inches)	Description	Nameplate Marking	Catalog Number Dead–End	Catalog Number Feed–Thru
1-Gang ♦ – Malleable Iron Body and Cover ① — Momentary Contact				
1/2	1 Circuit Universal	Specify	EDS150-RU1	EDSC150-RU1
3/4	1 Circuit Universal	Specify	EDS175-RU1	EDSC175-RU1
1	1 Circuit Universal	Specify	EDS110-RU1	EDSC110-RU1
1/2	2 Circuits Universal	Specify	—	EDSC150-RU2
3/4	2 Circuits Universal	Specify	EDS175-RU2	EDSC175-RU2
1	2 Circuits Universal	Specify	EDS110-RU2	EDSC110-RU2

1 Circuit   **2 Circuit**

Hub Size (Inches)	Description	Nameplate Marking	Catalog Number Dead–End	Catalog Number Feed–Thru
2-Gang – Malleable Iron Body and Cover ① — Momentary Contact				
1/2	2 Circuits Universal	Specify	—	EDSC250-RU1
3/4	2 Circuits Universal	Specify	EDS275-RU1	EDSC275-RU1
1	2 Circuits Universal	Specify	EDS210-RU1	EDSC210-RU1
1/2	4 Circuits Universal	Specify	—	EDSC250-RU2
3/4	4 Circuits Universal	Specify	EDS275-RU2	EDSC275-RU2
1	4 Circuits Universal	Specify	EDS210-RU2	EDSC210-RU2

2 Circuit

4 Circuit

Description	Nameplate Marking	Catalog Number Cover Assembly	Switch Only
Cover and Chamber with Device — Momentary Contact			

When installed on a 1/2" or 3/4" single gang box the cover assembly is suitable for use in Group B environments but will not be marked Group B.

Description	Nameplate Marking	Cover Assembly	Switch Only
1 Circuit Universal	Specify	EFK-RU1-Q	EFSR-U1Q
2 Circuits Universal	Specify	EFK-RU2-Q	EFSR-U2Q

① *For aluminum body add suffix —A (Not suitable for Class I, Group B).*

♦ *Shaded area indicates items suitable for Class I, Group B, in addition to Class I, Groups C and D; Class II, Groups E, F, and G; and Class III.*

CONTROLS: NEC/CEC EXPLOSIONPROOF CONTROL STATIONS AND SWITCHES

EMERSON

EFD/EFDB Series Factory Sealed Control Stations

Dust Cap Push Button. Explosionproof, Dust-Ignitionproof

10 Amp, 600 Vac Max. for Heavy Duty Use. Momentary Contact. 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 (Inches)	Description		Nameplate Marking	Catalog Number Dead–End	Feed–Thru
1-Gang ①						
	3/4	1 Circuit Universal		Start/Stop	**EFDB175-DU1**	**EFDCB175-DU1**
	1				**EFDB110-DU1**	**EFDCB110-DU1**
	3/4	2 Circuits Universal		Start/Stop	**EFDB175-DU2**	**EFDCB175-DU2**
	1				**EFDB110-DU2**	**EFDCB110-DU2**
3-Device ②						
	3/4	2 Circuits Universal and 1 Pilot Light		Start/Stop	**EFDL75-J1DU2**	**EFDCL75-J1DU2**
	1				**EFDL10-J1DU2**	**EFDCL10-J1DU2**

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, Groups B, C and D; Class II, Groups E, F, and G; and Class III. For Class I, Group B external seals must be installed at each conduit entrance.
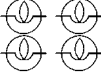
EFD/EFDB Series Factory Sealed Control Stations

Pilot Lights. Explosionproof, Dust-Ignitionproof

Pilot Light Furnished with 6 Watt, 120 Vac 6S6 Lamp and Red Jewel.† 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 (Inches)	Description		Catalog Number Dead–End	Catalog Number Feed–Thru
1-Gang ♦ ③				
1/2			**EFDB150-J1**	**EFDCB150-J1**
3/4	One Pilot Light		**EFDB175-J1**	**EFDCB175-J1**
1			**EFDB110-J1**	**EFDCB110-J1**
1/2			**EFDB150-J2**	**EFDCB150-J2**
3/4	Two Pilot Lights		**EFDB175-J2**	**EFDCB175-J2**
1			**EFDB110-J2**	**EFDCB110-J2**
2-Gang ①				
1/2			EFD250-J1	EFDC250-J1
3/4	Two Pilot Lights		EFD275-J1	EFDC275-J1
1			EFD210-J1	EFDC210-J1
1/2			EFD250-J2	EFDC250-J2
3/4	Four Pilot Lights		EFD275-J2	EFDC275-J2
1			EFD210-J2	EFDC210-J2
3-Device ②				
1/2			EFDL50-J3	EFDCL50-J3
3/4	Three Pilot Lights		EFDL75-J3	EFDCL75-J3
1			EFDL10-J3	EFDCL10-J3
2-Gang Tandem ②				
1/2			EFDT50-J1	EFDCT50-J1
3/4	Two Pilot Lights		EFDT75-J1	EFDCT75-J1
1			EFDT10-J1	EFDCT10-J1
1/2			EFDT50-J2	EFDCT50-J2
3/4	Four Pilot Lights		EFDT75-J2	EFDCT75-J2
1			EFDT10-J2	EFDCT10-J2

Two Pilot Lights   **Four Pilot Lights**

① Malleable iron body and aluminum cover. For aluminum body, add suffix —**A**.
② Aluminum body not available. For tandem bodies, external seals must be installed within 1.5 meters (5 feet) of each conduit entrance for Class I, Groups C and D.
③ Other colored jewels, pilot lights and LED's listed under accessories and parts.

♦ Shaded area indicates items suitable for Class I, 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.

EFDB Series Factory Sealed Control Stations

Selector Switches and Photocontrols. Explosionproof, Dust-Ignitionproof

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

NEC/CEC:
Class I, Division 1 and 2, Groups B♦, C, D
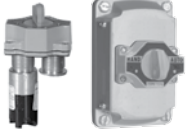*Class II, Division 1 and 2, Groups E, F, G*
Class III
NEMA 3, 7CD, 9EFG

Hub Size (Inches)	Description	Diagram Left	Diagram Center	Diagram Right	Catalog Number Dead–End	Catalog Number Feed–Thru
2 Position Selector Switches — 1-Gang ♦ ① — Maintained Contact						
1/2	2 Position, 2 Circuit		None		EFDB150-12	EFDCB150-12
3/4	2 Position, 2 Circuit		None		EFDB175-12	EFDCB175-12
1					EFDB110-12	EFDCB110-12
1/2	2 Position, 4 Circuits		None		EFDB150-35	EFDCB150-35
3/4	2 Position, 4 Circuits		None		EFDB175-35	EFDCB175-35
1					EFDB110-35	EFDCB110-35

Nameplate: Hand—Auto

3 Position Selector Switches — 1-Gang ♦ ① — Maintained Contact

Three position units can be supplied for momentary contact right position, spring return to center, maintained contact left position. Add suffix —SRC.

Hub Size (Inches)	Description	Diagram Left	Diagram Center	Diagram Right	Catalog Number Dead–End	Catalog Number Feed–Thru
1/2	3 Position, 2 Circuit				EFDB150-102	EFDCB150-102
3/4	3 Position, 2 Circuit				EFDB175-102	EFDCB175-102
1					EFDB110-102	EFDCB110-102
1/2	3 Position, 4 Circuits				EFDB150-345	EFDCB150-345
3/4	3 Position, 4 Circuits				EFDB175-345	EFDCB175-345
1					EFDB110-345	EFDCB110-345

Nameplate: Hand—Off—Auto

Selector Switches Nameplates ②

Two Position

Three Position

Two Position Nameplates		Three Position Nameplates	
Forward—Reverse	**SLNP-FRQ**	Forward—Off—Reverse	**SLNP-FORQ**
Hand—Auto	**SLNP-HAQ**	Hand—Off—Auto	**SLNP-HOAQ**
On—Off	**SLNP-OO**	Run—Off—Jog	**SLNP-ROJQ**
Start—Stop	**SLNP-SS**	Blank	**SLNP-B3**
Blank	**SLNP-BQ**	Reverse—Off—Forward	**SLNP-ROFQ**
Up—Down	**SLNP-UDQ**	Auto—Off—Hand	**SLNP-AOHQ**
Run—Job	**SLNP-RJQ**	Hand—Off—Remote	**SLNP-HORQ**
Auto—Hand	**SLNP-AHQ**	1—Off—2	**SLNP-102Q**
Off—Remote	**SLNP-ORQ**	Jog—Off—Run	**SLNP-JORQ**
Local Remote	**SLNP-LRQ**	Stop—Run—Start	**SLNP-SRSQ**
Off—On	**SLNP-OFON**	Local—Off—Remote	**SLNP-LORQ**

Selector Switch Locking Devices — Permit locking in any position

Description	Catalog Number
Two or Three Positions	**SBL-3-Q**

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① Malleable iron body and aluminum cover. For aluminum body add suffix —**A** (Suitable for Class I, Division 1 and 2, Group B—single gang only).
② Custom nameplates are 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.

EFDB Series Factory Sealed Control Stations

Selector Switch Cover Assemblies. Explosionproof, Dust-Ignitionproof
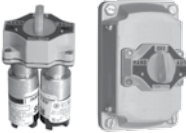### 10 Amp, 600 Vac Max. for Heavy Duty Use.

NEC/CEC:
Class I, Division 1 and 2, Groups B♦,, C, D
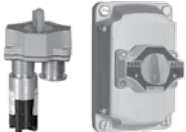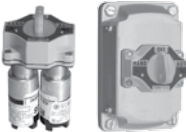*Class II, Division 1 and 2, Groups E, F, G*
Class III
NEMA 3, 7CD, 9EFG

EFDB Selector Switch Operator/Switch Assembly — Maintained Contact ①

Thread Size (In., NPSM)	Description	Diagram Left	Diagram Center	Diagram Right	Catalog Number Switch Assembly Only	Catalog Number Switch Assembly with Cover
2 Position						
1/2	2 Position, 2 Circuit		None		SSBA1-2Q	EFKB-12
1/2	2 Position, 4 Circuits		None		SSBA2-2Q	EFKB-35
3 Position						
1/2	3 Position, 2 Circuit				SSBA1-3Q	EFKB-102
1/2	3 Position, 4 Circuit				SSBA2-3Q	EFKB-345

Nameplate: Hand—Auto (2 Position)
Nameplate: Hand—Off—Auto (3 Position)

EFDB Selector Switch Operator/Switch Assembly — Modified Operations ①

Thread Size (In., NPSM)	Description	Diagram Left	Diagram Center	Diagram Right	Catalog Number Switch Assembly Only	Catalog Number Switch Assembly with Cover
3 Position						

Momentary contact right position. Spring return to center. Maintained contact left position.

Note: Standard legend plate reads Hand/Off/Auto

Thread Size (In., NPSM)	Description	Diagram Left	Diagram Center	Diagram Right	Switch Assembly Only	Switch Assembly with Cover
1/2	3 Position, 2 Circuit				SSBAS-1-3	EFKB-102-SRC
1/2	3 Position, 4 Circuits				SSBAS-2-3	EFKB-345-SRC

2 Circuit

Momentary contact left position. Spring return to center. Maintained contact right position.

Note: Standard legend plate reads Auto/Off/Hand

Thread Size (In., NPSM)	Description	Diagram Left	Diagram Center	Diagram Right	Switch Assembly Only	Switch Assembly with Cover
1/2	3 Position, 2 Circuit				SSBASL-1-3	EFKB-102-SLC
1/2	3 Position, 4 Circuits				SSBASL-2-3	EFKB-345-SLC

4 Circuit

Momentary contact right position. Spring return to center. Maintained contact left position.

Note: Standard legend plate reads Stop/Run/Start

Thread Size (In., NPSM)	Description	Diagram Left	Diagram Center	Diagram Right	Switch Assembly Only	Switch Assembly with Cover
1/2	3 Position, 4 Circuits				SSBASRA-2-3	EFKB-637-SRC

① When installed on a single gang box the cover assembly is suitable for use in Group B environments but will not be marked Group B.
♦ 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.

CONTROLS: NEC/CEC EXPLOSIONPROOF CONTROL STATIONS AND SWITCHES

Appleton

EMERSON

EFD/EFDB and EDS Series Factory Sealed Control Stations

EFKB Covers With Pilot Lights and/or Push Buttons. For EFD Bodies

NEC/CEC:
Class I, Division 1 and 2, Groups C, D
Class II, Division 1 and 2, Groups E, F, G
Class III

Description		Nameplate Marking	Catalog Number
Cover complete with Push Button — Factory Sealed — Momentary Contact ①②			
	For use on standard EFD bodies		
	1 Circuit Universal	Start/Stop	**EFKB-U1**
	2 Circuit Universal	Start/Stop	**EFKB-U2**
EFKB–U1 EFKB–U2			
Cover complete with Red Mushroom Head Push Button — Factory Sealed — Maintained Contact ①②			
	For use on standard EFD bodies – Emergency Stop Nameplate		
	1 Circuit Universal (Red)	Emergency Stop	**EFKB-UM1**
Cover complete with Pilot Lights — Factory Sealed — Momentary Contact ①②			
	6 Watt, 120 Vac, Type 6S6 Lamp. For use on standard EFD bodies		
	One pilot light (red jewel ③) and two universal push buttons	Start/Stop	**EFKB-J1U2**
	One pilot light (red jewel ③) and one universal push button	Start/Stop	**EFKB-J1U1**
J1U2 J1U1	One pilot light (red jewel ③) and one universal push button–dust cap	Start/Stop	**EFKB-J1DU1**
	One pilot light (red jewel ③)	Start/Stop	**EFKB-J1**
J1 J2	Two pilot lights (red jewels ③)	Start/Stop	**EFKB-J2**
	Photocontrol relay cover (120 Vac)		**EFKB-PC120**
	Photocontrol relay cover (208-277 Vac)		**EFKB-PC277**
PC			

① *All covers are copperfree aluminum. Supplied with four captive stainless steel bolts.*
② *When installed on a single gang box the cover assembly is suitable for use in Group B environments but will not be marked Group B.*
③ *Colored jewels, pilot lights and LED's listed under accessories and parts*

EMERSON

EFD/EFDB and EDS Series Factory Sealed Control Stations

ESK/EFK Covers For Pilot Lights, Push Buttons, or Selector Switches.

NEC/CEC:
  Class I, Division 1 and 2, Groups C, D
  Class II, Division 1 and 2, Groups E, F, G
  Class III

Covers Only — for use on standard EFD bodies

Supplied with 4 cover bolts and blank cover nameplate.

Description	Catalog Number

Push Button or Pilot Light Covers — 3/4" Tapped Openings ①

ESKB–1PBQ   **ESKB–2PBQ**

EFKL–3HQ

Description	Catalog Number
One opening: one push button or one pilot light	**ESKB-1PBQ**
Two openings: two push buttons, two pilot lights, or one of each	**ESKB-2PBQ**
Three openings: three device (EFDL) three push buttons or three pilot lights, or combination of push button(s) and pilot light(s)	**EFKL-3HQ** ②

Push Button or Selector Switch Cover — 1/2" Tapped Openings ①

Description	Catalog Number
Two openings: selector switch or two push buttons	**ESKB-2SPQ**

Push Button, Pilot Light or Selector Switch Covers — 3/4" top and 1/2" Bottom Tapped Openings ①

ESKB–3JPBQ   **ESKB–BQ**

Description	Catalog Number
One top and two bottom openings: one pilot light, two push buttons; one pilot light, one selector switch.	**ESKB-3JPBQ**
Blank	**ESKB-BQ**

Nameplate Mounting Bracket

Description	Catalog Number
Bracket with blank silver/black nameplate for EFDB series	**NPBRKT-EFDB**
Bracket with blank silver/black nameplate for 3-device EFD series	**NPBRKT-CONT**

To order bracket with control station, add suffix –**NPBRKT** to end of catalog number.

To order engraved nameplates, add desired markings after catalog number. Maximum of 2 lines with 12 characters (including spaces) per line.

Note: Mount bracket between cover screws and cover. Do not mount bracket between ground joint flame path between cover and backbox.

① *All covers are copperfree aluminum. Supplied with four captive stainless steel bolts.*
② *Catalog number EFKL-3HQ supplied with 6 stainless steel non-captive bolts.*

Appleton

CONTROLS: NEC/CEC EXPLOSIONPROOF CONTROL STATIONS AND SWITCHES

EMERSON

NEC/CEC:
Class I, Division 1 and 2, Groups B, C, D
Class II, Division 1 and 2, Groups E, F, G
Class III

Description				Catalog Number
Push Button, Factory Sealed — Momentary Contact				
	10 Amp 600 Vac Heavy Duty 1/2" thread size (NPSM). Furnished with 1/2" to 3/4" enlarger, Weather Boot, Guard, Start, Stop and Blank Nameplates.			
SPBB–U1–Q	Single Push Button	Universal		**SPBB-U1-Q**
SPBB–U2DBL	Double Push Button	Universal		**SPBB-U2DBL**
Push Button, Red, Factory Sealed — Maintained Contact				
	10 Amp 600 Vac Heavy Duty 1/2" thread size (NPSM). Furnished with 1/2" to 3/4" enlarger and Emergency Stop Nameplate (guard not furnished).			
	Single Push Button	Universal		**SMPB-U1-Q**
Rectangular Button with Weather Boot				
	Furnished with Start, Stop and Blank Nameplates			**NBN-WB**

Description		Nameplate Marking	Catalog Number
Push Button and Replacement Cap			
Has 1/2 - 14 thread size (NPSM). Supplied with 1/2" to 3/4" enlarger.			
SPBB–DU1–Q **DC–Q**	Dust Cap - Push Button	STOP-START-BLANK	**SPBB-DU1-Q**
	Replacement Dust Cap Only	STOP-START-BLANK	**DC-Q**
STOP-START-BLANK	Nameplate	STOP-START-BLANK	**DU-NP-Q**
Covers Complete with Pilot Lights, Push Buttons — Factory Sealed			
When installed on a single gang box the cover assembly is suitable for use in Group B environments but will not be marked Group B.			
EFKB–DU1 EFKB–DU2	1 Circuit Universal	Specify	**EFKB-DU1**
	2 Circuits Universal	Specify	**EFKB-DU2**
	2 Circuits Universal and 1 Pilot Light	Specify	**EFKL-J1DU2** ①
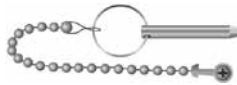
① *For use with three device mounting bodies.*

NEC/CEC:
Class I, Division 1 and 2, Groups B, C, D
Class II, Division 1 and 2, Groups E, F, G
Class III

Description			Catalog Number
Nameplates for Rectangular Push Buttons			
	Blank	**SNP-B-Q**	Off	**SNP-OFF-Q**
	Forward	**SNP-FWD-Q**	On	**SNP-ON-Q**
	Jog	**SNP-JOG-Q**	Reverse	**SNP-REV-Q**
	Run	**SNP-RUN-Q**	Open	**SNP-OPEN-Q**
	Stop	**SNP-SP-Q**	Close	**SNP-CLOSE-Q**
	Start	**SNP-ST-Q**	Up	**SNP-UP-Q**
	Down	**SNP-DOWN-Q**	Test	**SNP-TEST-Q**
	Fast	**SNP-FAST-Q**	Low	**SNP-LOW-Q**
	Slow	**SNP-SLOW-Q**	High	**SNP-HIGH-Q**
	Raise	**SNP-RAISE-Q**		
	Lower	**SNP-LOWER-Q**		
	Reset	**SNP-RESET-Q**		

(Nameplate images: SNP–OFF–Q, SNP–ON–Q)

Push Button Replacement Locking Guards — Glass Reinforced Polypropylene — Gasketed

Maintained Switch Guard
Single Guard
Double Guard

Has hole for 1/4" hasp.

Description	Catalog Number
Single Guard (Maintained Switch)	**SMPB-LG**
Single Guard	**NPB-LG1**
Double Guard	**NPB-LG2**
Single Guard (No Lockout Holes)	**NPB-LG1-LL**
Double Guard (No Lockout Holes)	**NPB-LG2-LL**

Push Button Securing Rod with Chain — Stainless Steel

Description	Catalog Number
For use with Single Guard Only	**NBL-SR**

Mushroom Button with Weather Boot for Use with Momentary Contact — Gasketed

Description	Catalog Number
Black	**NMRB-BL**
Green	**NMRB-GR**
Red	**NMRB-RE**

Mushroom Button

For Use with Maintained Contact — Solid-Colored Nonmetallic Button

Description	Catalog Number
Red	**NMRBM-RE**

Nameplates For Momentary and Maintained Mushroom Head Push Button

Description	Catalog Number
Start	**MNPSTQ**
Stop	**MNPSPQ**
Emergency Stop	**MNPESTPQ**
Blank	**MNPBQ**

(Image label: MNPESTPQ)

CONTROLS: NEC/CEC EXPLOSIONPROOF CONTROL STATIONS AND SWITCHES

Appleton®

EMERSON

EFD/EFDB and EDS Series Factory Sealed Control Stations

EFD/EFDB Push Button Accessories

Description	Catalog Number
Pilot Light, Factory Sealed	
Incandescent	
Furnished with 6S6 120 Vac incandescent lamp, jewel and guard. Has 457 mm (18") long, type SFF-2 pigtail leads; +150 °C (+302 °F). Body has 3/4" straight thread (NPSM).	
With Red Jewel	**SPLSREB**
With Green Jewel	**SPLSGRB**
With Amber Jewel	**SPLSAMB**
With Blue Jewel	**SPLSBLB**
With Clear Jewel	**SPLSCLB**
With Opal Jewel	**SPLSOPB**
LED	
Furnished with candelabra base 120 Vac LED, jewel and guard. Has 457 mm (18") long, type SFF-2 pigtail leads; +150 °C (+302 °F). Body has 3/4" straight thread (NPSM).	
With Red LED, Clear Jewel	**SPLNSREB**
With Green LED, Clear Jewel	**SPLNSGRB**
With Amber LED, Clear Jewel	**SPLNSAMB**
Chamber Only (Same as above, less jewel, guard and lamp)	**SPLSSCB**

Pilot Light   **Chamber Only**

Description	Catalog Number
Pilot Light Jewel/Guard Assembly	
The below catalog numbers indicate an assembly of the Pilot Light Jewels and Guards. Jewels and Guards are not available as separate items.	
Amber Jewel/Guard	**JGBNA**
Blue Jewel/Guard	**JGBNB**
Clear Jewel/Guard	**JGBNC**
Green Jewel/Guard	**JGBNG**
Opal Jewel/Guard	**JGBNO**
Red Jewel/Guard	**JGBNR**

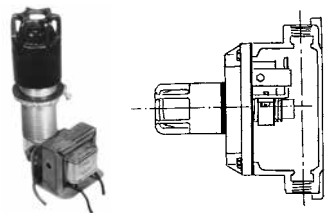| Description	Catalog Number
Replacement Bulbs	
Clear Bulbs	
Furnished with candelabra base. 6 Watt, 120 Vac, Type 6S6	**EPL-B6W**
LED Replacements	
Furnished with candelabra base. 120 Vac, 10 mA.	
Red LED	**EPLLEDR**
Green LED	**EPLLEDG**
Amber LED	**EPLLEDA**

EPL–B6W   **EPLLEDR**

Transformer

Add Suffix as listed below. Transformer clamps directly to pilot light barrel.
Only one pilot light transformer assembly per one gang body.

Primary Vac	Lamp Vac	Suffix
220	120	**TR2**
277	120	**TR3**
440	120	**TR4**
550	120	**TR5**

♦ *Suitable for Class I, Group B when installed in an enclosure rated for Class I, Group B.*

EMERSON

CONTROLS: NEC/CEC EXPLOSIONPROOF CONTROL STATIONS AND SWITCHES

Appleton®

EFD/EFDB and EDS Series Factory Sealed Control Stations

EFD/EFDB Push Button Accessories

Description	Catalog Number
Nameplates for Pilot Light	
Blank	**LNPBQ**
Forward	**LNPFWDQ**
Jog	**LNPJOGQ**
Run	**LNPRUNQ**
Stop	**LNPSPQ**
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	**LNPTESTQ**
Low	**LNPLOWQ**
High	**LNPHIGHQ**

LNPRUNQ

CONTROLS: NEC/CEC EXPLOSIONPROOF CONTROL STATIONS AND SWITCHES

Appleton

EMERSON

EFD/EFDB and EDS Series Factory Sealed Control Stations

Mounting Bodies
Furnished with Internal Ground Screw.

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

| | | Hub Size | Catalog Number | |
Type		(Inches)	Malleable Iron	Aluminum
1-Gang				
	Dead-End	1/2	EFD150NLQ	EFD150ANLQ
		3/4	EFD175NLQ	EFD175ANLQ
		1	EFD110NLQ	EFD110ANLQ
	Feed-Thru	1/2	EFDC150NLQ	EFDC150ANLQ
		3/4	EFDC175NLQ	EFDC175ANLQ
		1	EFDC110NLQ	EFDC110ANLQ
2-Gang				
	Dead-End	1/2	EFD250NLQ	EFD250ANLQ
		3/4	EFD275NLQ	EFD275ANLQ
		1	EFD210NLQ	EFD210ANLQ
	Feed-Thru	1/2	EFDC250NLQ	EFDC250ANLQ
		3/4	EFDC275NLQ	EFDC275ANLQ
		1	EFDC210NLQ	EFDC210ANLQ
Tandem ①				
	Dead-End	1/2	EFDT50NLQ	—
		3/4	EFDT75NLQ	—
		1	EFDT10NLQ	—
	Feed-Thru	1/2	EFDCT50NLQ	—
		3/4	EFDCT75NLQ	—
		1	EFDCT10NLQ	—
3-Device				
	Dead-End	1/2	EFDL50Q	—
		3/4	EFDL75Q	—
		1	EFDL10Q	—
	Feed-Thru	1/2	EFDCL50Q	—
		3/4	EFDCL75Q	—
		1	EFDCL10Q	—

Blank Bodies for Brazed Hubs ②

Construct complete catalog numbers per EFD Cast Device Boxes Ordering Information on following page. Hubs will be located in center of walls and evenly spaced unless otherwise specified. Where spacings are critical, submit sketch showing exact spacing requirements.
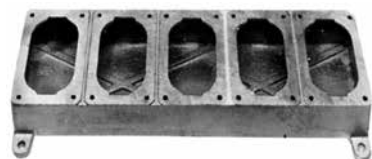
1-Gang	**EFD1NL**	—
2-Gang	**EFD2NL**	—
3-Gang	**EFD3NL**	—
4-Gang	**EFD4NL**	—
5-Gang	**EFD5NL**	—

① *For tandem bodies, external seals must be installed within 1.5 meters (5 feet) of each conduit entrance for Class I, Groups C and D.*
② *Blank EFD bodies are Non-UL Listed.*

Determine catalog number as follows:
(1) Select EFD device box catalog number;
(2) Select "Standard Hub Arrangement Diagram" number; and
(3) Select symbols that represent hub sizes from "Symbol Table." (Use "0" where no hub is required, and separate the various divisions of the complete catalog number by dashes.)

Example
The blank body device box selected is EFD3NL and the hub arrangement is diagram #8. Hub "a" is to be 3/4" brazed threaded; hub "b", 1" brazed threaded; hub "c", 3/4" brazed threaded; hub "d", no hub is required; and hub "e", 1" brazed union.
The complete catalog number will be:
EFD–3NL–8–23203E

If a "Standard Hub Arrangement" is not suitable for the application, or when hubs are to be more accurately spaced, submit sketch locating hubs (1) from centerlines of walls and (2) from outside back of box (or from mounting lug surface if lugs are supplied).

All hubs will be located in centerlines of walls and evenly spaced unless otherwise specified.
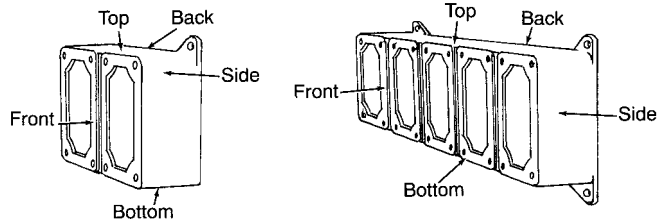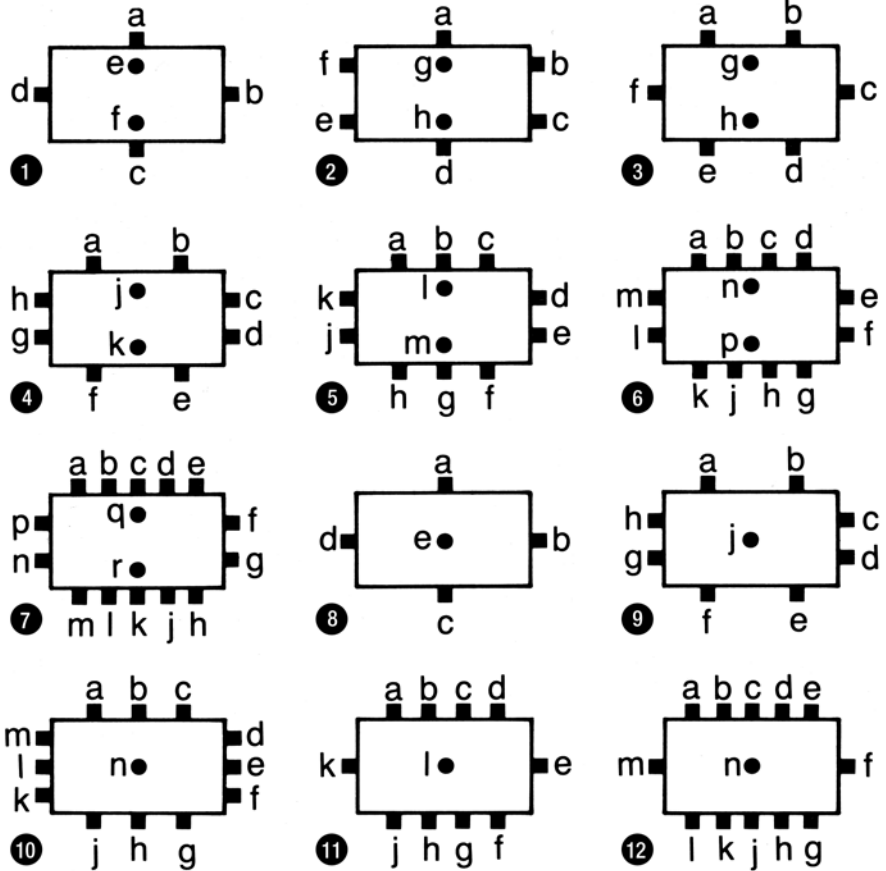
Symbol Table

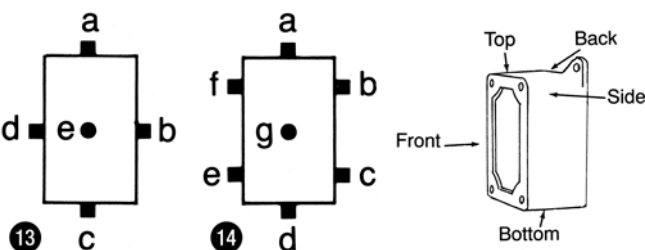| Hub Size (Inches)	Brazed Threaded Hub Symbol	Brazed Union Hub Symbol
Blank	0	0
1/2	1	1E
3/4	2	2E
1	3	3E

Standard Hub Arrangement Diagrams
Hub "a" is always TOP of box

2–, 3–, 4– and 5–Gang (Front View)

1–Gang (Front View)

CONTROLS: NEC/CEC EXPLOSIONPROOF CONTROL STATIONS AND SWITCHES

EMERSON

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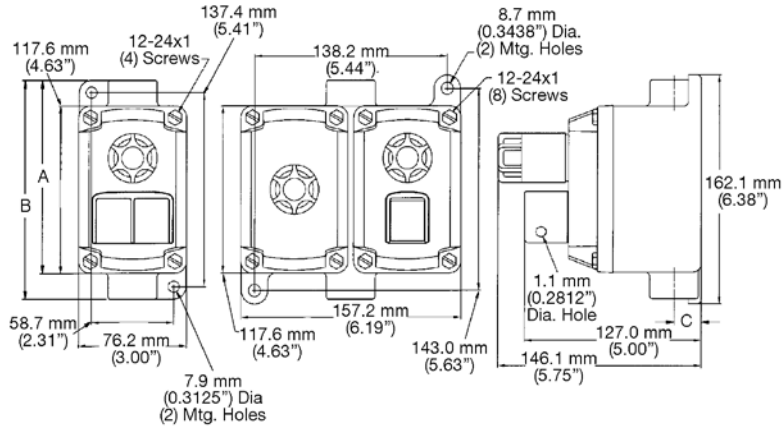*Class I, Division 1 and 2, Groups C, D*
Class II, Division 1 and 2, Groups E, F, G
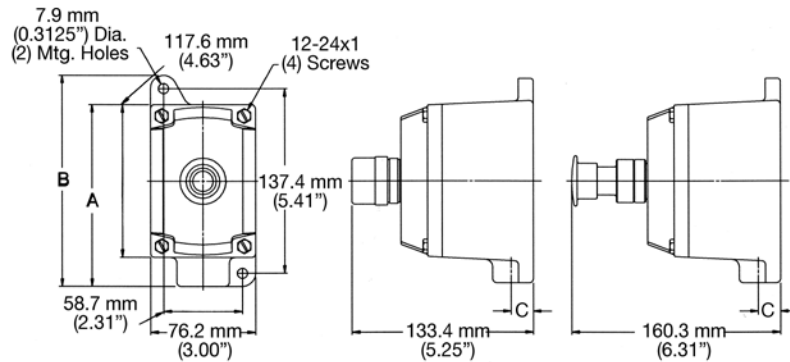*Class III*
NEMA 7CD, 9EFG

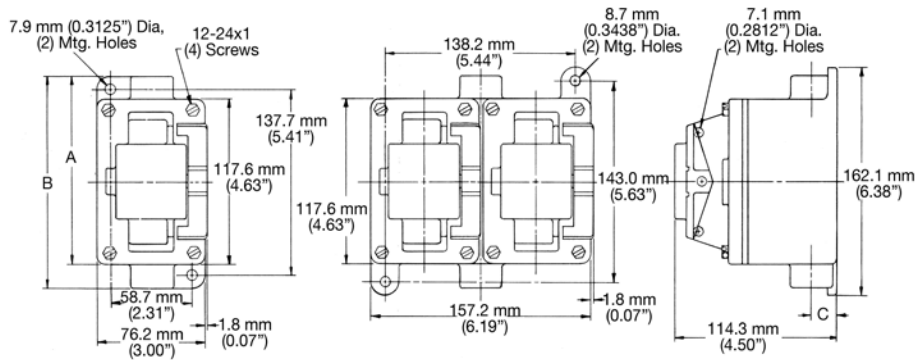**Dimensions in Millimeters (Inches)**

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)

EMERSON