Class I, Div. 1 and 2, Groups B., C,D Class II, Div. 1 and 2, Groups E.F.G Class III **NEMA 3,7CD,9EFG**

EFDB Factory Sealed Push Button Stations: Explosion-Proof, **Dust Ignition-Proof**

UNILETS® for Use with Threaded Metal Conduit. 10 Ampere, 600V A.C. Max. for Heavy Duty Use. Furnished with Internal Ground Screw.

U.S. Pat. 3,699,276 Patented Canada 1974	Hub Size, Inches	Description		Nameplate Marking	Catalog Dead-End	Number Feed-Thru
	Single Gang*• Momentary Contact					
19	1/2 3/4 1	1 Circuit Universal	e e	Specify	EFDB150-U1 EFDB175-U1 EFDB110-U1	EFDCB150-U1 EFDCB175-U1 EFDCB110-U1
e de la compania del compania de la compania del compania de la compania del la compania de la compania del la compania de la compania de la compania del la compan	1/2 3/4 1	2 Circuits Universal	ele ele	Specify	EFDB150-U2 EFDB175-U2 EFDB110-U2	EFDCB150-U2 EFDCB175-U2 EFDCB110-U2
The state of the s	1/2 3/4 1	2 Circuits 1 Open—A 1 Closed—B Start-Stop	ala	START STOP	EFDB150-OC EFDB175-OC EFDB110-OC	EFDCB150-OC EFDCB175-OC EFDCB110-OC
	Maintained Contact					
	1/2 3/4 1	1 Circuit Universal	ele • •		EFDB150-UM1 EFDB175-UM1 EFDB110-UM1	EFDCB150-UM1 EFDCB175-UM1 EFDCB110-UM1





Two (ang* ary Contact				
1/2 3/4 1	2 Circuits Universal	ala ala	Specify	EFD250-U1 EFD275-U1 EFD210-U1	EFDC250-U1 EFDC275-U1 EFDC210-U1
1/2 3/4 1	4 Circuits Universal	ale ale	Specify	EFD250-U2 EFD275-U2 EFD210-U2	EFDC250-U2 EFDC275-U2 EFDC210-U2
1/2 3/4 1	4 Circuits 2 Open—A 2 Closed—B Start-Stop	 ala ala	START	EFD250-OC EFD275-OC EFD210-OC	EFDC250-OC EFDC275-OC EFDC210-OC



Three Devicet

Moment	ary Contact
1/2	3 Circuits
3/4	Universal
1	

Specify

EFDL50-U3 EFDL75-U3 EFDL10-U3

EFDCL50-U3 EFDCL75-U3 EFDCL10-U3

* Malleable iron body and aluminum cover. For aluminum body, add suffix -A. ‡Aluminum body not available.

Shaded area indicates items suitable for Class I, Div. 1 and 2, 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.

See page 10 for push button accessories and parts. Dimensions on pages 16 and 17.



Factory Sealed Control Stations and Pilot Lights: EFD and EDS Series. **Explosion-Proof. Dust Ignition-Proof**

UNILETS® for Use with Threaded Metal Conduit.

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 Factory **Sealed Push Buttons and Selector Switches**

- · Eliminate need for adding sealing fittings and compound at each conduit entrance.
- Heavy-duty, 10 ampere 600V rated.
- · Dozens of possible combinations of push buttons, pilot lights and selector switches.
- · Smooth, rounded integral bushing in each EFDB hub protects conductor
- 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
- · 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 EFDB front-operated 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.

Features: EFD/EFDB Pilot Lights

 Factory sealed pilot lights supplied with jewel/guard assembly and 120V, 6W type 6S6 lamp.

 Models also available in combination with factory sealed push buttons and selector switches.

Features: EFD/EFDB **Selector Switches**

- · Factory sealed selector switches furnished with nylon cam-operated, heavy-duty push buttons for either twoposition or three-position maintained contact operation.
- High thermal and arc resistance, high dielectric strength.



Factory Sealed Control Stations and Pilot Lights: EFD and EDS Series. Explosion-Proof, Dust Ignition-Proof

UNILETS® for Use with Threaded Metal Conduit.

Features: EDS Push Buttons

- Factory sealed—eliminates need for adding sealing fittings and compound at each conduit entrance.
- Heavy duty, 10 ampere 600V rated.
- Switch is enclosed in separate sealing chamber.
- Sealing chamber has smooth, double flanges that mate both to cover and mounting enclosure to provide flametight joints.
- Pigtail leads from push buttons are factory sealed in sealing well.
- Stainless steel hex-head captive screws attach sealing chamber to cover and mounting enclosure.
- Side rocker arm push button has lockout holes.
- EFD back box supplied with internal ground screw.

Standard Materials

- EFD control stations: malleable iron body with aluminum cover.
- SPB Push button: aluminum upper barrel and phenolic lower barrel with lexan plastic button (Dust Cap models have neoprene buttons).
- SPL pilot light: aluminum guard and body assembly; steel clamping ring; and tempered glass jewel.
- SSA selector switch: aluminum operator mechanism, nylon cam, and sealed phenolic contact block.
- EDS control stations: malleable iron body and cover; aluminum sealing chamber; and nylon 6/6 operating handle.

Standard Finishes

Effective October, 1993

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- EFD control stations: body, triplecoat—(1) zinc electroplate, (2) dichromate, and (3) epoxy powder coat.
- SPB push button, SPL pilot light and SSA selector switch: natural finish.
- EDS control stations: body and cover, triple-coat—(1) zinc electroplate, (2) dichromate, and (3) epoxy powder coat sealing chamber, natural finish.

Options

 Three position selector switches with modified operation. Momentary contact right position, spring return to center, maintained contact left position. For description and switch diagram see page 33. Add suffix —SRC.

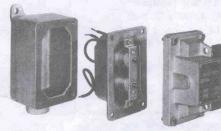
- EFD selector switch Lockout—locks two- or three-position handle in any position. Suffix —LD.
- EFD push button Emergency STOP—front-operated red mushroom button. Suffix —NMRB (momentary contact).
- EFD pilot light jewel/guard assembly.
 Order by suffixes if color desired is other than red, as follows: Amber, —JGB-A;
 Blue, —JGB-B; Clear, —JGB-C; Green, —JGB-G; Opal, —JGB-O.
- EFD 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 Push Button Lockout Guard. Suffix —SR.

Compliances

- UL Standard 698.
- Class I, Div. 1 and 2; Class II, Div.
 1 and 2. See listing pages for specific groups.
- Appleton malleable iron products conform to ASTM A47-77, Grade 32510, which has the following properties: tensile strength, 50,000 psi; yield, 32,000 psi; and elongation, 10%.
- Appleton aluminum products are produced from a high strength copperfree (4/10 of 1% max.) alloy.



EDS factory sealed rocker arm push button control station—shows separate sealing chamber and device construction.



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

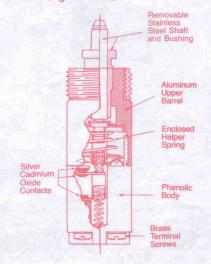


EDS Rocker Arm Push Button has Hole for Lock.



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

SPBB Design Features





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