

# M-24

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

## Contender™ Series Push Button Control Stations: Explosion-Proof, Dust-Ignition-Proof

UNILETS® for Use with Threaded Metal Conduit.  
Non-Factory Sealed. 10 Ampere, 600V A.C. Max. for Heavy Duty Use.  
Momentary Contact. Furnished with Internal Ground Screw.

Hub Size, Inches	Description	A	B	Nameplate Marking	Catalog Number Dead-End	Feed-Thru	
<b>Single Gang</b>							
Malleable Iron Body and Cover†							
1 Circuit	1/2	2 Circuits			START	EFS115	EFSC115
	3/4	1 Open - A			STOP	EFS215	EFSC215
	1	1 Closed - B				EFS315	EFSC315
2 Circuits	1/2	1 Circuit			Specify	EFS1184	EFSC1184
	3/4	Universal				EFS2184	EFSC2184
	1					EFS3184	EFSC3184
2 Circuits	1/2	2 Circuits			Specify	—	EFSC1190
	3/4	Universal				EFS2190	EFSC2190
	1					EFS3190	EFSC3190
<b>Two Gang</b>							
4 Circuits	1/2	4 Circuits			START	—	EFSC125
	3/4	2 Open - A			STOP	EFS225	EFSC225
	1	2 Closed - B				EFS325	EFSC325
2 Circuits	1/2	2 Circuits			Specify	—	EFSC1284
	3/4	Universal				EFS2284	EFSC2284
	1					EFS3284	EFSC3284
2 Circuits	1/2	4 Circuits			Specify	—	EFSC1290
	3/4	Universal				EFS2290	EFSC2290
	1					EFS3290	EFSC3290
<b>EDK Series</b>							
2 Circuits	2 Circuits	1 Open - A			START	EDK-MOC	
	1 Circuit	Universal			Specify	EDK-MU	
	2 Circuits	Universal			Specify	EDK-MU2	
<b>Single Push Button</b>							
2 Circuits	1/2	2 Circuits				EFS1155	EFSC1155
	3/4	1 Open - A				EFS2155	EFSC2155
	1	1 Closed - B				EFS3155	EFSC3155
2 Circuits	1/2	2 Circuits				EFS1192	EFSC1192
	3/4	Universal				EFS2192	EFSC2192
	1					EFS3192	EFSC3192

† For aluminum body and cover, add suffix - SA

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## Contender™ Series Factory Sealed Control Stations and Pilot Lights: Explosion-Proof, Dust-Ignition-Proof

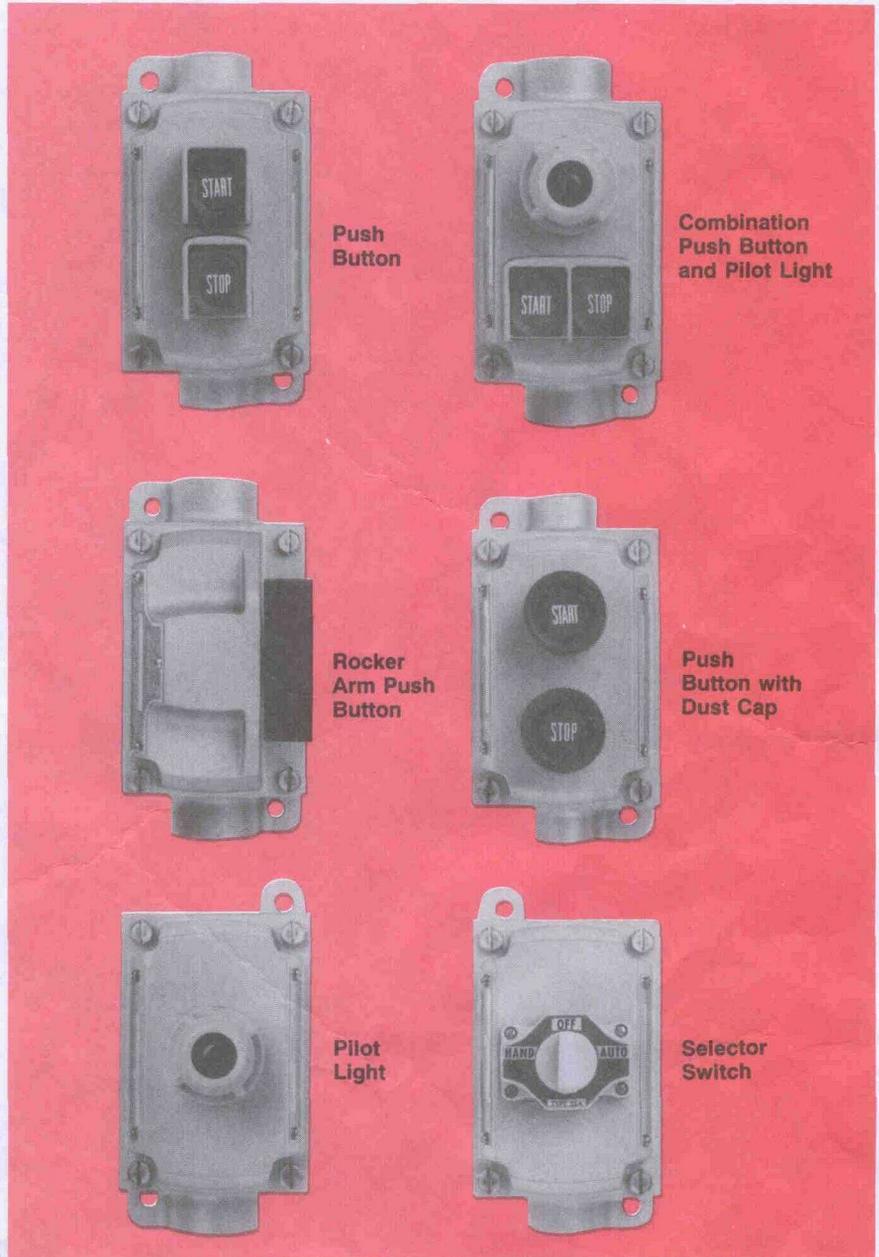
UNILETS® for Use with Threaded Metal Conduit.  
Furnished with Internal Ground Screw.

### 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.
- Contender Series 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 or where corrosive elements are present.

### Features

- Covers UL Listed when used on Contender bodies.
- Covers UL Classified to interchange with Crouse-Hinds® EDS bodies.
- Finish is epoxy powder coat for enhanced corrosion resistance.
- Large back box for ample wiring room.
- Ground screw installed in bodies for ground continuity.
- Corrosion-resistant stainless steel hex-head captive screws hold covers to body.
- Factory sealed enclosure eliminates need for adding sealing fittings and compound at each conduit entrance.
- Heavy-duty, 10 ampere 600V rated.
- Factory sealed pilot lights supplied with jewel/guard assembly and 120V, 6W 6S6 lamp.
- Dozens of possible combinations of push buttons, pilot lights and selector switches.
- Accurately tapped, tapered hubs for tight, rigid joints and ground continuity.
- Smooth, rounded integral bushing in each hub protects conductor insulation.
- 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.

- All 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 and spade terminals assure quick, easy wiring.

## Contender™ Series Factory Sealed Control Stations and Pilot Lights: Explosion-Proof, Dust-Ignition-Proof

UNILETS® for Use with Threaded Metal Conduit.  
Furnished with Internal Ground Screw.

### Standard Materials

- Control Stations: malleable iron body with malleable iron cover.
- *SPBB 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.
- *SSAB selector switch*: aluminum operator mechanism, nylon cam, and sealed phenolic contact block.

### Standard Finishes

- *Contender Series control stations*: body, triple-coat — (1) zinc electroplate, (2) dichromate, and (3) Epoxy Powder Coat.
- *SPBB push button, SPL pilot light and SSAB selector switch*: natural finish.

### Options

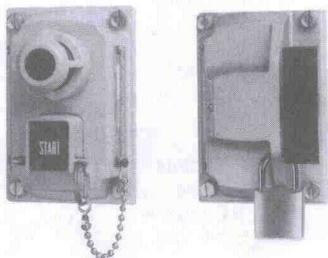
- Three position selector switches with modified operation. Momentary contact right position, spring return to center, maintained contact left position. Suffix — **S634**.
- Three position selector switches with modified operation. Momentary contact left position, spring return to center, maintained contact right position. Suffix — **S635**.
- Selector switch Lockout — locks two- or three-position handle in any position. Suffix — **S349**.
- Pilot light jewel/guard assembly. Order by suffixes if color desired is other than red as follows: Amber — **J6**; Blue — **J11**; Clear — **J10**; Green — **J3**; Opal — **J8**.
- Bodies and covers (single or two gang) in copper-free aluminum. Suffix — **SA**.
- Securing Rod for Push Button Lockout Guard. Suffix — **S153**.

### 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 copper-free (4/10 of 1% max.) alloy.



Securing Rod for Push Button Lockout Guard — available as an optional item. Lockout Guard furnished as standard with the push button, may also be pad-locked.



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

### SPBB Design Features

