

# Contender™ Series Factory Sealed Control Stations and Pilot Lights

## Explosionproof, Dust-Ignitionproof

Furnished with Internal Ground Screw.

### NEC/CEC:

Class I, Division 1, Groups 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

### 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.
- 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, gasses or highly combustible dusts are present.
- For installation in:
  - Chemical plants
  - Petrochemical plants
  - Refineries
  - Other process industries
  - Where corrosive elements are present

### Features

- Covers are UL Listed when used on Contender bodies.
- Finish is epoxy powder coat for enhanced corrosion resistance.
- Large backbox 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 Amp, 600 Vac.
- Factory sealed pilot lights supplied with jewel/guard assembly and 120 Vac/Vdc, 50/60 Hz, 6 Watt lamp (LED provided as option).
- Dozens of possible combinations of push buttons, pilot lights and selector switches.
- 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.
- Smooth, rounded integral bushing in each hub protects conductor insulation.
- 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 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 and spade terminals assure quick, easy wiring.

### Standard Materials

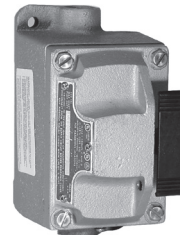
- Control station body and cover: malleable iron
- SPBB push button: copperfree (4/10 of 1% max.) aluminum upper barrel and phenolic lower barrel with nylon plastic button
- SPBB dust cap push button: neoprene buttons
- SPLS pilot light: copperfree (4/10 of 1% max.) aluminum guard and body assembly; steel clamping ring; and tempered glass jewel



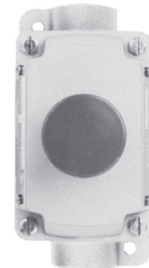
Push Button



Combination Push Button and Pilot Light



Rocker Arm Push Button



Maintained Push Button



Pilot Light



Selector Switch

- SSBA selector switch: copperfree (4/10 of 1% max.) aluminum operator mechanism, nylon cam, and sealed phenolic contact block

### Standard Finishes

- Control station body: triple coat—(1) zinc electroplate, (2) chromate, and (3) epoxy powder coat
- SPBB push button, SPLS pilot light and SSBA selector switch: natural finish

APPLETON™

CONTROLS: NEC/CEC EXPLOSIONPROOF CONTROL STATIONS AND SWITCHES

Classified by UL for use in specific combinations with Cooper Crouse-Hinds EDS covers and bodies.

# Contender™ Series Factory Sealed Control Stations and Pilot Lights

## Explosionproof, Dust-Ignitionproof

UNILETS™ for use with Threaded Metal Conduit. Furnished with Internal Ground Screw.

### NEC/CEC:

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

### Options

- 1- or 2-gang boxes:
  - For aluminum cover only, add suffix - **A**.
  - For aluminum body and cover, add suffix - **SA**.
- Three position selector switches with modified operation:
  - Momentary contact right position, spring return to center; maintained contact left position. Add suffix - **S634**.
  - Momentary contact left position, spring return to center; maintained contact right position. Add suffix - **S635**.
  - Momentary contact right position, spring return to center; maintained contact left position; alternate contacts. Add suffix - **S636**.
- Selector switch lockout locks two or three position handle in any position. Add suffix - **S349**.
- Momentary push button securing rod, add suffix - **S153**.
- Pilot light jewel/guard assembly. Order by suffixes if color desired is other than red:
  - Amber- **J6**
  - Opal- **J8**
  - Clear- **J10**
  - Blue- **J11**
  - Green- **J3**
- Bodies and covers (1- or 2-gang) in copperfree (4/10 of 1% max.) aluminum. Add suffix - **SA**.
- Securing rod for push button lockout guard, add suffix- **S153**.
- LED pilot lights are available in lieu of incandescent pilot lights. Order by suffixes for desired color as follows:
  - Red- **LED1**
  - Green- **LED3**
  - Amber- **LED6**

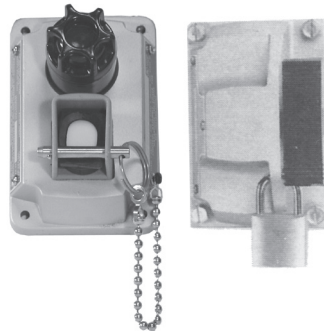
### NEC/CEC Certifications and Compliances

- UL Standards: UL 508, UL 698, UL 1203
- CSA Standards: C22.2 No. 14
- cULus Listed: E10449, E81751

### Related Products

- For Division 1, Group B applications, refer to *EFDB Series*.

### Illustrated Features

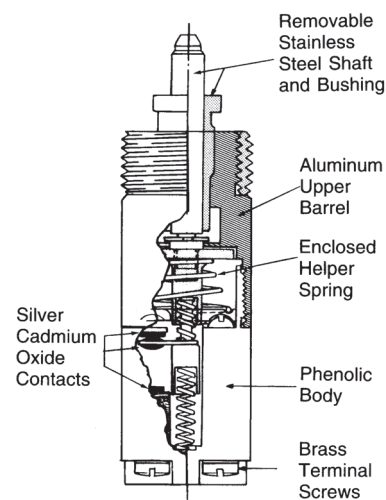


Securing Rod for Push Button Lockout Guard – available as optional item. Lockout Guard furnished as standard with the Push Button, may also be padlocked. Suffix- **S153**.

SPBB factory sealed push button — standard type and unit with dust cap.



### SPBB Design Features



# Contender™ Series Factory Sealed Control Stations and Pilot Lights

## Selector Switches. Explosionproof, Dust-Ignitionproof













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

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APPLETON™

CONTROLS: NEC/CEC EXPLOSIONPROOF CONTROL STATIONS AND SWITCHES

Selector Switches	Hub Size (Inches)	Description	Left	Diagram Center	Right	Catalog Number Dead-End	Feed-Thru
2 Position Selector Switches — 1-Gang ① ③ — Maintained Contact							
	1/2	2 Position, 2 Circuit		None		EDS11271	EDSC11271
	3/4					EDS21271	EDSC21271
	1					EDS31271	EDSC31271
	1/2	2 Position, 4 Circuits		None		EDS11272	EDSC11272
	3/4					EDS21272	EDSC21272
	1					EDS31272	EDSC31272
3 Position Selector Switches — 1-Gang ① ③ — Maintained Contact							
	1/2	3 Position, 2 Circuit				EDS11273	EDSC11273
	3/4					EDS21273	EDSC21273
	1					EDS31273	EDSC31273
	1/2	3 Position, 4 Circuits				EDS11274	EDSC11274
	3/4					EDS21274	EDSC21274
	1					EDS31274	EDSC31274
Nameplate: Hand—Auto							
Nameplate: Hand—Off—Auto							
	Thread Size (In., NPSM)	Description	Left	Diagram Center	Right	Switch Catalog Number	
						Assembly Only	Assembly w/Cover

### EDKB Selector Switch Operator/Switch Assembly ② ③ — Maintained Contact







Nameplate: Hand—Auto









Nameplate: Hand—Off—Auto

#### 2 Position

1/2	2 Position, 2 Circuit		None		SSBA1-2Q	EDKB-12
1/2	2 Position, 4 Circuits		None		SSBA2-2Q	EDKB-35







#### 3 Position

1/2	3 Position, 2 Circuit				SSBA1-3Q	EDKB-102
1/2	3 Position, 4 Circuit				SSBA2-3Q	EDKB-345

### EDKB Selector Switch Operator/Switch Assembly ② — Modified Operations — 3 Position







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

Note: Standard legend plate reads Hand/Off/Auto

1/2	3 Position, 2 Circuit				SSBAS-1-3	EDKB-102-S634
1/2	3 Position, 4 Circuits				SSBAS-2-3	EDKB-345-S634

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

Note: Standard legend plate reads Auto/Off/Hand

1/2	3 Position, 2 Circuit				SSBASL-1-3	EDKB-102-S635
1/2	3 Position, 4 Circuits				SSBASL-2-3	EDKB-345-S635

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

Note: Standard legend plate reads Stop/Run/Start

1/2	3 Position, 4 Circuits				SSBASRA-2-3	EDKB-345-S636
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① Malleable Iron Body and Cover. For Aluminum Body and Cover, add suffix - SA.

② For Aluminum Cover only, add suffix - A.

③ Supplied as standard with maintained contact selector switches. Specify catalog number from nameplate listings if other than standard nameplate is desired.

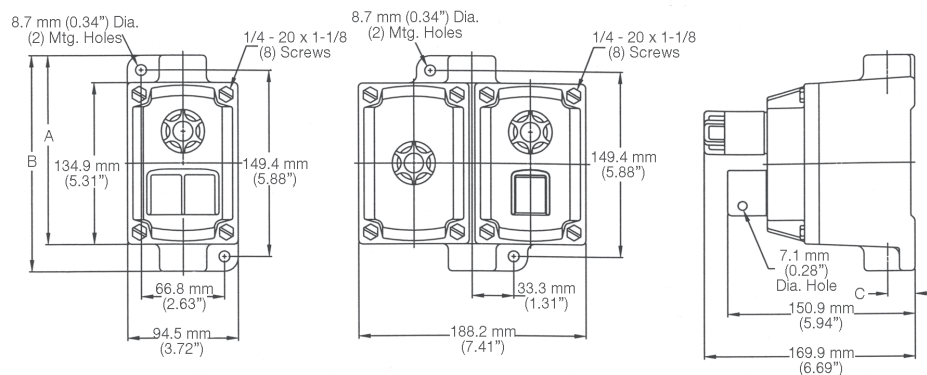
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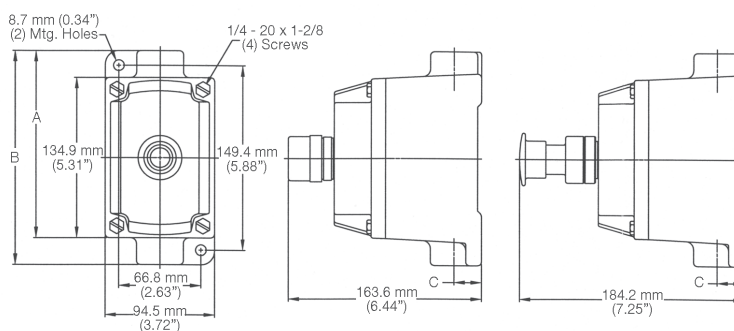
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Class III

## Dimensions in Millimeters (Inches)

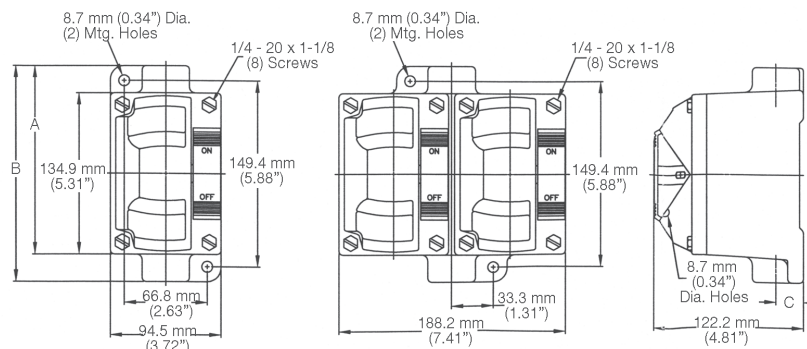
### 1- and 2-Gang Combination Pilot Light and Push Button



### 1-Gang Dust Cap Push Button and Maintained Push Button



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



Unilet Type	Hub Size (Inches)	Dimensions in Millimeters (Inches)		
		A	B	C
1-Gang	1/2	153.9 (6.06)	173.0 (6.81)	19.1 (0.75)
	3/4	153.9 (6.06)	165.4 (6.51)	22.4 (0.88)
	1	156.7 (6.17)	179.6 (7.03)	25.4 (1.00)
2-Gang	1/2 and 3/4	153.9 (6.06)	165.4 (6.51)	22.4 (0.88)
	1	156.7 (6.17)	179.6 (7.03)	25.4 (1.00)