

# 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



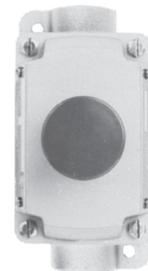
Push Button



Combination Push Button and Pilot Light



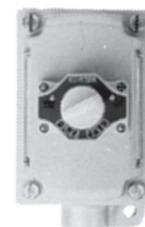
Rocker Arm Push Button



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

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

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

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### 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

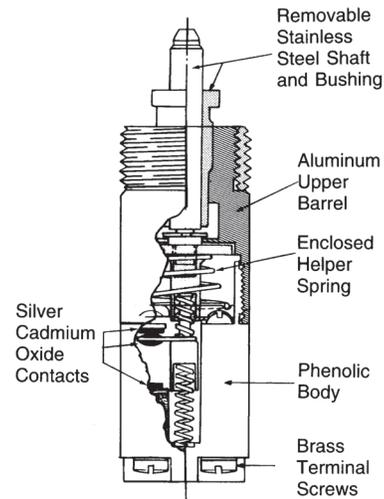


Securing Rod for Push Button Lockout Guard – available as optional item. Lockout Guard furnished as standard with the Push Button, may also be padlocked. Suffix- **S153**.



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

### SPBB Design Features



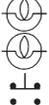
# Contender™ Series Factory Sealed Control Stations and Pilot Lights

For Contender™ Bodies

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

## Covers

		Description	Contact Arrangement	Nameplate Marking	Catalog Number ①
		<b>Complete with Push Button – Factory Sealed – Momentary Contact</b> <i>For use on standard EDS bodies (furnished with 4 stainless steel captive bolts)</i>			
 EDKB-U1  EDKB-U2	1 Circuit Universal		Start/Stop	EDKB-U1	
	2 Circuit Universal		Start/Stop	EDKB-U2	
		<b>Complete with Mushroom Head Push Button – Factory Sealed – Maintained Contact</b> <i>For use on standard EDS bodies</i>			
 EDKB-UM1  EDKB-UM2	1 Circuit Universal (Red)		Emergency Stop	EDKB-UM1	
	2 Circuit Universal (Red)		Specify	EDKB-UM2	
		<b>Complete with Pilot Lights – Factory Sealed – Momentary Contact</b> <i>6 Watt 120 Vac, Type 6S6 Lamp. For use on standard EDS bodies (furnished with 4 stainless steel captive bolts)</i>			
 EDKB-J1U2  EDKB-J1U1	One pilot light (red jewel ②) and two universal push buttons		Specify	EDKB-J1U2	
	One pilot light (red jewel ②) and one universal push button		Specify	EDKB-J1U1	
 EDKB-J1  EDKB-J2	One pilot light (red jewel ②) and one universal push button–dust cap		Specify	EDKB-J1DU1	
	One pilot light (red jewel ②)		Specify	EDKB-J1	
		Two pilot lights (red jewel ②)		Specify	EDKB-J2
		<b>Complete with Pilot Lights and Push Buttons – Factory Sealed</b> <i>For use on standard EDS bodies (furnished with 8 stainless steel captive bolts)</i>			
 EDKL-U3  EDKL-J3	3 Circuits Universal		Start/Stop	EDKL-U3	
	Three Pilot Lights (red jewels ②)			EDKL-J3	
 EDKL-J1U2  EDKL-J2U1	One Pilot Light (red jewel ②) and two universal circuits		Specify	EDKL-J1U2	
	Two Pilot Lights (red jewels ②) and one universal circuit		Specify	EDKL-J2U1	

APPLETON™

CONTROLS: NEC/CEC EXPLOSIONPROOF CONTROL STATIONS AND SWITCHES

① For Aluminum Cover only, add suffix - A.

② For other colors, add color suffix for each pilot light: Amber—JGBA, Blue—JGBB, Clear—JGBC, Green—JGBG, Opal—JGBO.