

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



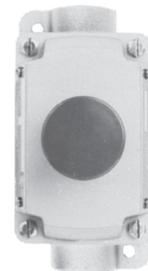
Push Button



Combination Push Button and Pilot Light



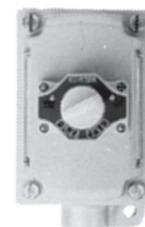
Rocker Arm Push Button



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.

Visit our website at www.emerson.com or contact us at (800) 621-1506.
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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

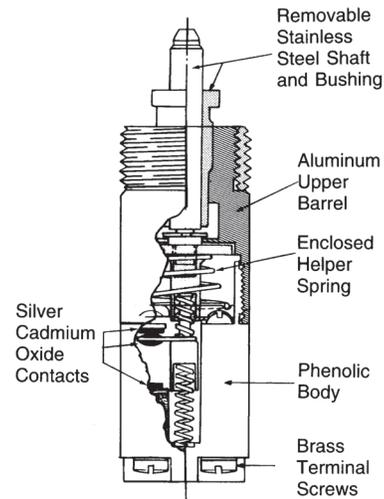


Securing Rod for Push Button Lockout Guard – available as optional item. Lockout Guard furnished as standard with the Push Button, may also be padlocked. Suffix- **S153**.



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

SPBB Design Features



Contender™ Series Factory Sealed Control Stations and Pilot Lights

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

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

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	Hub Size (Inches)	Description ②	Nameplate Marking	Catalog Number		
				Dead-End	Feed-Thru	
1-Gang ①						
	1/2	One Pilot Light		EFS1524	EFSC1524	
	3/4			EFS2524	EFSC2524	
	1			EFS3524	EFSC3524	
	1/2	Two Pilot Lights		EFS1561	EFSC1561	
	3/4			EFS2561	EFSC2561	
	1			EFS3561	EFSC3561	
2-Gang ①						
	1/2	Two Pilot Lights		EFS1624	EFSC1624	
	3/4			EFS2624	EFSC2624	
	1			EFS3624	EFSC3624	
	1/2	Four Pilot Lights		—	EFSC1661	
	3/4			EFS2661	EFSC2661	
	1			EFS3661	EFSC3661	
1-Gang ①						
	1/2	1 Circuit Universal and 1 Pilot Light		Specify	EFD1473	EFDC1473
	3/4				EFD2473	EFDC2473
	1				EFD3473	EFDC3473
	1/2	2 Circuits Universal and 1 Pilot Light			EFD1234	EFDC1234
	3/4				EFD2234	EFDC2234
	1				EFD3234	EFDC3234
2-Gang ①						
	1/2	2 Circuits Universal and 1 Pilot Light		Specify	EFD1471	EFDC1471
	3/4				EFD2471	EFDC2471
	1				EFD3471	EFDC3471
	1/2	2 Circuits Universal and 2 Pilot Lights		Specify	EFD1868	EFDC1868
	3/4				EFD2868	EFDC2868
	1				EFD3868	EFDC3868

APPLETON™

CONTROLS: NEC/CEC EXPLOSIONPROOF CONTROL STATIONS AND SWITCHES

① Malleable Iron Body and Cover. For Aluminum Body and Cover, add suffix - SA.

② Pilot Lights furnished with 6 Watt, 120 Vac 6S6 lamp and Red Jewel - for other colors, add color suffix for each pilot light: Amber - J6, Blue - J11, Clear - J10, Green - J3, Opal - J8.