

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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CONTROLS: NEC/CEC EXPLOSIONPROOF CONTROL STATIONS AND SWITCHES

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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

Related Products

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

Illustrated Features

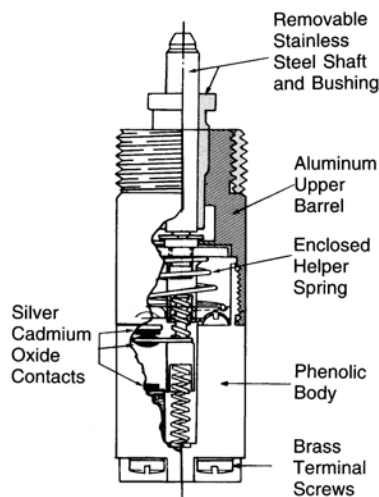


Securing Rod for Push Button Lockout Guard – available as optional item. Lockout Guard furnished as standard with the Push Button, may also be padlocked. Suffix- **S153**.

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



SPBB Design Features



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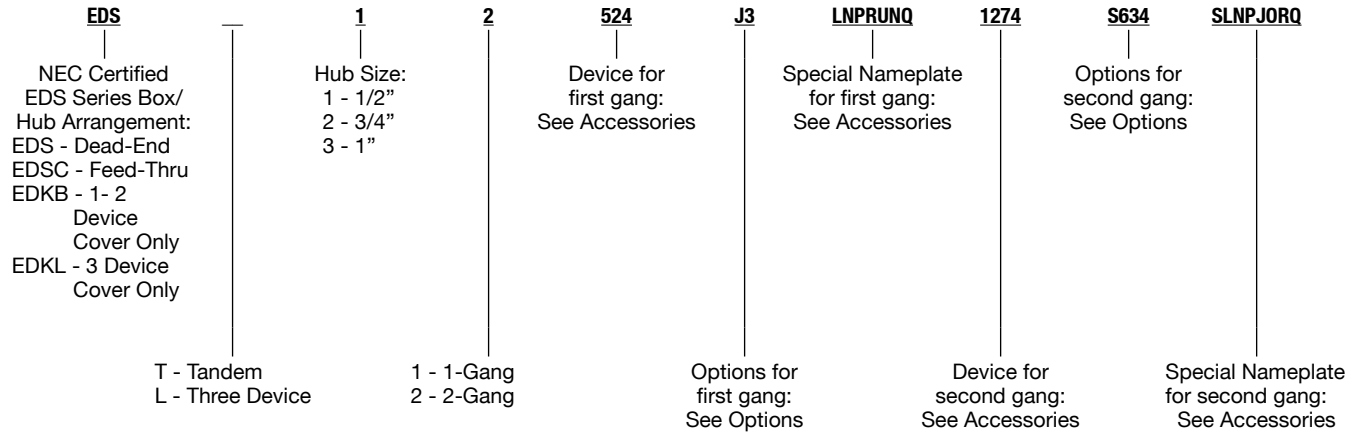
Class I, Division 2, Groups B, C, D

Class II, Division 1 and 2, Groups E, F, G

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Catalog Numbering Guide



Full Catalog Number: EDSC12-524-J3-LNPUPQ-1274-S634-SLNPJORQ

Feed-Thru 2-Gang Box with 1/2" Hub:

In Gang #1: One Pilot Light with UP Nameplate

In Gang #2: One 3-Position, 4-Circuit Spring Return from the right Selector Switch with JOG-OFF-RUN Nameplate.

Options

Description	Suffix
Momentary Push Button Securing Rod	S153
Selector Switch Lockout	S349
Spring Return From Right Selector Switch (3 Positions Only)	S634
Spring Return From Left Selector Switch (3 Positions Only)	S635
Alternate Contacts Selector Switch	S636
Change One Red Lens to Green Lens	J3
Change One Red Lens to Opal Lens	J8
Change One Red Lens to Amber Lens	J6
Change One Red Lens to Blue Lens	J11
Change One Red Lens to Clear Lens	J10
Add 220/120 Vac Transformer (J1 Device Only)	S801
Add 277/120 Vac Transformer (J1 Device Only)	S802
Add 440/120 Vac Transformer (J1 Device Only)	S803
Add 550/120 Vac Transformer (J1 Device Only)	S804
Change One Red Pilot to Red LED	LED1
Change One Red Lens to Green LED	LED3
Change One Red Lens to Amber LED	LED6
Add Red Mushroom Head to Momentary Push Button	S805
Add Black Mushroom Head to Momentary Push Button	S806
Add Green Mushroom Head to Momentary Push Button	S807
Locking Guard for Maintained Push Button	S808

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Devices

Device Description	Available in 1-G, 2-G Tandem	Available in Three Device	Suffix
One Pilot Light (Red Standard)	Y		524
Two Pilot Lights	Y		561
One Pilot Light and One Momentary Push Button	Y		473
One Pilot Light and Two Momentary Push Buttons	Y	Y	234
One Pilot Light and One Maintained Push Button	Y		701
One Pilot Light and One Dust-Cap Push Button	Y		702
One Pilot Light and One 12 Selector Switch (2 Position, 2 Circuit)	Y		703
One Pilot Light and One 35 Selector Switch (2 Position, 4 Circuit)	Y		704
One Pilot Light and One 102 Selector Switch (3 Position, 2 Circuit)	Y		705
One Pilot Light and One 345 Selector Switch (3 Position, 4 Circuit)	Y		706
One Monetary Push Button	Y		84
Two Monetary Push Buttons	Y		90
Two Side-By-Side Momentary Push Buttons	Y		95
Three Monetary Push Buttons	Y	Y	707
One Momentary Push Button and One Maintained Push Button	Y		708
One Momentary Push Button and One Dust Cap Push Button	Y		709
One Momentary Push Button and One 12 Selector Switch (2 Position, 2 Circuit)	Y		710
One Momentary Push Button and One 35 Selector Switch (2 Position, 4 Circuit)	Y		711
One Momentary Push Button and One 102 Selector Switch (3 Position, 2 Circuit)	Y		712
One Momentary Push Button and One 345 Selector Switch (3 Position, 4 Circuit)	Y		713
One Maintained Push Button (Mushroom Head - Red)	Y		714
Two Maintained Push Button	Y		715
One Maintained and One Dust Cap Push Button	Y		716
One Maintained Push Button and One 12 Selector Switch (2 Position, 2 Circuit)	Y		717
One Maintained Push Button and One 35 Selector Switch (2 Position, 4 Circuit)	Y		718
One Maintained Push Button and One 102 Selector Switch (3 Position, 2 Circuit)	Y		719
One Maintained Push Button and One 345 Selector Switch (3 Position, 4 Circuit)	Y		720
One Dust Cap Push Button	Y		721
Two Dust Cap Push Buttons	Y		722
One Dust Cap and One 12 Selector Switch (2 Position, 2 Circuit)	Y		723
One Dust Cap and One 35 Selector Switch (2 Position, 4 Circuit)	Y		724
One Dust Cap and One 102 Selector Switch (3 Position, 2 Circuit)	Y		725
One Dust Cap and One 345 Selector Switch	Y		726
One 12 Selector Switch (2 Position, 2 Circuit)	Y		271
One 35 Selector Switch (2 Position, 4 Circuit)	Y		272
One 102 Selector Switch (3 Position, 2 Circuit)	Y		273
One 345 Selector Switch (3 Position, 4 Circuit)	Y		274
120 Vac Photocell	Y		727
277 Vac Photocell	Y		728
Three Dust Cap Push Buttons		Y	729
One Momentary and Two Maintained Push Buttons		Y	730
Two Momentary and One Maintained Push Buttons	Y	Y	731
Three Maintained Push Buttons		Y	732
Three Pilot Lights		Y	476
Two Pilot Lights and One Momentary Push Button		Y	733
One Pilot Light and Two Dust Cap Push Buttons		Y	734
Two Pilot Lights and One Dust Cap Push Button		Y	735
One Pilot Light and Two Maintained Push Buttons		Y	736
Two Pilot Lights and One Maintained Push Button		Y	737

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Nameplates ①

Description	Suffix
Mushroom Head Push Buttons (Maintained and Momentary)	
Start	MNPSTQ
Stop	MNPSPQ
Emergency Stop	MNPESTPQ
Blank	MNPBQ
Pilot Light Nameplates	
Blank	LNPBQ
Forward	LNPFWQ
Jog	LNPJOGQ
Run	LNPRUNQ
Stop	LNPSQ
Start	LNPSTQ
Down	LNPDOWNQ
Fast	LNPFASTQ
Slow	LNPSLOWQ
Raise	LNPRASEQ
Lower	LNPOWERQ
Reset	LNPRESETQ
Off	LNPOFFQ
On	LNPONQ
Reverse	LNPREVQ
Close	LNPCLOSEQ
Open	LNPOPENQ
Up	LNPUPQ
Test	LNPTSTQ
Low	LNLOWQ
High	LNPHIGHQ
Two Position Selection Switch Nameplates	
Forward-Reverse	SLNPFRQ
Hand—Auto ②	SLNPHAQ
On—Off	SLNPOO
Start—Stop	SLNPSS
Blank	SLNPBQ
Up—Down	SLNPUDQ
Run—Jog	SLNPRJQ
Auto—Hand	SLNPAHQ
Off—Remote	SLNPORQ
Off—On	SLNPOFON

Description	Suffix
Three Position Selection Switch Nameplates	
Forward—Off—Reverse	SLNPFORQ
Hand—Off—Auto	SLNPHOAQ
Run—Off—Jog	SLNPROJQ
Blank	SLNPB3
Reverse—Off—Forward	SLNPROFQ
Auto—Off—Hand	SLNPAOHQ
Hand—Off—Remote	SLNPHORQ
1—Off—2	SLNP102Q
Jog—Off—Run	SLNPJORQ
Stop—Run—Start	SLNPSRSQ
Local—Off—Remote	SLNPLOQR
Momentary Push Buttons	
<i>For Rectangular Weatherboot Style Only (not for round weatherboot style)</i>	
Blank ②	SNPBQ
Forward	SNPFWQ
Jog	SNPJOGQ
Run	SNPRUNQ
Stop ②	SNPSPQ
Start ②	SNPSTQ
Down	SNPDOWNQ
Fast	SNPFASTQ
Slow	SNPSLOWQ
Raise	SNPRASEQ
Lower	SNPOWERQ
Reset	SNPRESETQ
Off	SNPOFFQ
On	SNPONQ
Reverse	SNPREVQ
Close	SNPCLOSEQ
Open	SNPOPENQ
Up	SNPUPQ
Test	SNPTSTQ
Low	SNLOWQ
High	SNPHIGHQ

① Custom nameplates are not available.

② Included as standard (no need to use suffix).

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Push Button. With Rocker Arm Handle. Explosionproof, Dust-Ignitionproof

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

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Rocker Arm Handle

		Hub Size (Inches)	Description	Contact Arrangement	Nameplate Marking	Catalog Number ①	
						Dead-End	Feed-Thru
1-Gang — Malleable Iron Body and Cover ②							
		1/2	1 Circuit Universal		Specify	EDS1596	EDSC1596
		3/4				EDS2596	EDSC2596
		1				EDS3596	EDSC3596
1 Circuit	2 Circuits	1/2	2 Circuits Universal		Specify	EDS1194	EDSC1194
		3/4				EDS2194	EDSC2194
		1				EDS3194	EDSC3194
2-Gang — Malleable Iron Body and Cover ②							
		1/2	2 Circuits Universal		Specify	—	EDSC1696
		3/4				EDS2696	EDSC2696
		1				EDS3696	EDSC3696
2 Circuits	4 Circuits	1/2	4 Circuits Universal		Specify	—	EDSC1294
		3/4				EDS2294	EDSC2294
		1				EDS3294	EDSC3294

Single Push Button

		Hub Size (Inches)	Description	Contact Arrangement	Catalog Number ①	
					Dead-End	Feed-Thru
1-Gang						
		1/2	2 Circuits Universal Momentary		EDS1192	EDSC1192
		3/4			EDS2192	EDSC2192
		1			EDS3192	EDSC3192
Nameplate: Start/Stop Momentary	Nameplate: Emergency Stop Maintained Mushroom Head	1/2	2 Circuits Universal Red Maintained		EDS1192UM1	EDSC1192UM1
		3/4			EDS2192UM1	EDSC2192UM1
		1			EDS3192UM1	EDSC3192UM1

Cover Assemblies ②

		Description	Contact Arrangement	Nameplate Marking	Catalog Number Cover With Device
		1 Circuit Universal		Specify	EDKB-RU1
		2 Circuits Universal		Specify	EDKB-RU2
		1 Circuit Universal		Specify	EDKB-U1L
		1 Circuit Universal		Specify	EDKB-UM1L
		2 Circuits Universal		Specify	EDKB-U2L
		2 Circuit Universal		Specify	EDKB-DPB
		2 Circuits Universal (Maintained)		Specify	EDKB-DPBM

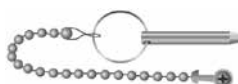
① Malleable Iron Body and Cover. For Aluminum Body and Cover, add suffix - SA.

② For Aluminum Cover only, add suffix - A.

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Replacement Parts and Accessories

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	Description	Contact Arrangement	Catalog Number
Push Button — Factory Sealed — Momentary Contact			
 SPBB-U1-Q	10 Amp 600 Vac Heavy Duty 1/2" thread size (NPSM). Furnished with 1/2" to 3/4" enlarger, Weather Boot, Guard, Start, Stop and Blank Nameplates.		
	Single Push Button	Universal	 SPBB-U1-Q
 SPBB-U2DBL	Double Push Button	Universal	 SPBB-U2DBL
Push Button — Red Mushroom Head — Factory Sealed — Maintained Contact			
 	10 Amp 600 Vac Heavy Duty 1/2" thread size (NPSM). Furnished with 1/2" to 3/4" enlarger and Emergency Stop Nameplate (guard not furnished).		
	Single Push Button	Universal	 SMPB-U1-Q
Rectangular Button with Weather Boot			
 	Furnished with Start, Stop and Blank Nameplates.		NBN-WB
Nameplates for Rectangular Push Buttons			
 SNP-OFF-Q	Blank	SNP-B-Q	Off SNP-OFF-Q
	Forward	SNP-FWD-Q	On SNP-ON-Q
 SNP-ON-Q	Jog	SNP-JOG-Q	Reverse SNP-REV-Q
	Run	SNP-RUN-Q	Open SNP-OPEN-Q
	Stop	SNP-SP-Q	Close SNP-CLOSE-Q
	Start	SNP-ST-Q	Up SNP-UP-Q
	Down	SNP-DOWN-Q	Test SNP-TEST-Q
	Fast	SNP-FAST-Q	Low SNP-LOW-Q
	Slow	SNP-SLOW-Q	High SNP-HIGH-Q
	Raise	SNP-RAISE-Q	
	Lower	SNP-LOWER-Q	
	Reset	SNP-RESET-Q	
Push Button Replacement Locking Guards — Glass Reinforced Polypropylene — Gasketed			
 Maintained Mushroom Head Switch Guard	Has hole for 1/4" hasp.		
	Single Guard (Maintained Mushroom Head Switch)		SMPB-LG
 Single Guard	Single Guard		NPB-LG1
	Double Guard		NPB-LG2
 Double Guard	Single Guard (No Lockout Holes)		NPB-LG1-LL
	Double Guard (No Lockout Holes)		NPB-LG2-LL
Push Button Securing Rod with Chain — Stainless Steel			
 	For use with Single Guard Only		NBL-SR
Mushroom Head Button with Weather Boot for Use with Momentary Contact — Gasketed			
 	Black		NMRB-BL
	Green		NMRB-GR
	Red		NMRB-RE