

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



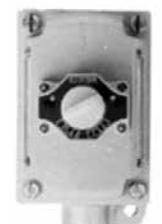
Rocker Arm Push Button



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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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**

APPLETON

CONTROLS: NEC/CEC EXPLOSIONPROOF CONTROL STATIONS AND SWITCHES

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

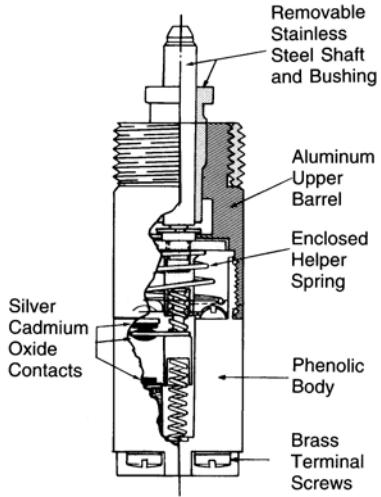


Securing Rod for Push Button Lockout Guard – available as optional item. Lockout Guard furnished as standard with the Push Button, may also be padlocked. Suffix- S153.



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

SPBB Design Features



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Catalog Numbering Guide

EDS	1	2	524	J3	LNPRUNQ	1274	S634	SLNPJORQ
NEC Certified EDS Series Box/ Hub Arrangement: EDS - Dead-End EDSC - Feed-Thru EDKB - 1-2 Device Cover Only EDKL - 3 Device Cover Only	Hub Size: 1 - 1 1/2" 2 - 3 1/4" 3 - 1"	Device for first gang: See Accessories		Special Nameplate for first gang: See Accessories			Options for second gang: See Options	
T - Tandem L - Three Device	1 - 1-Gang 2 - 2-Gang			Options for first gang: See Options		Device for second gang: See Accessories		Special Nameplate for second gang: See Accessories

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
Spring Return From Right Selector Switch With Alternate Contacts (3 Positions Only)		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	Description	Suffix
Mushroom Head Push Buttons (Maintained and Momentary)			
Start	MNPSTQ	Forward—Off—Reverse	SLNPFORQ
Stop	MNPSPQ	Hand—Off—Auto	SLNPHOAQ
Emergency Stop	MNPESTPQ	Run—Off—Jog	SLNPROJQ
Blank	MNPBQ	Blank	SLNPB3
Pilot Light Nameplates			
Blank	LNPBQ	Reverse—Off—Forward	SLNPROFQ
Forward	LNPFWDQ	Auto—Off—Hand	SLNPAOHQ
Jog	LNPJOGQ	Hand—Off—Remote	SLNPHORQ
Run	LNPRUNQ	1—Off—2	SLNP102Q
Stop	LNPSPQ	Jog—Off—Run	SLNPJORQ
Start	LNPSTQ	Stop—Run—Start	SLNPSRSQ
Down	LNPDOWNQ	Local—Off—Remote	SLNPLORQ
Fast	LNPFASTQ	Jog—Off—Auto	SLNPJOAQ
Slow	LNPSLOWQ		
Raise	LNPRAISEQ	Momentary Push Buttons	
Lower	LNPLOWERQ	For Rectangular Weatherboot Style Only (not for round weatherboot style)	
Reset	LNPRESETQ	Blank ②	SNPBQ
Off	LNPOFFQ	Forward	SNPFWDQ
On	LNPONQ	Jog	SNPJOGQ
Reverse	LNPREVQ	Run	SNPRUNQ
Close	LNPCLOSEQ	Stop ②	SNPSPQ
Open	LNPOOPENQ	Start ②	SNPSTQ
Up	LNPUPQ	Down	SNPDOWNQ
Test	LNPTESTQ	Fast	SNPFASTQ
Low	LNPLOWQ	Slow	SNPSLOWQ
High	LNPHIGHQ	Raise	SNPRAISEQ
Two Position Selection Switch Nameplates			
Forward—Reverse	SLNPFRQ	Lower	SNPLOWERQ
Hand—Auto ②	SLNPHAQ	Reset	SNPRESETQ
On—Off	SLNPOO	Off	SNPOFFQ
Start—Stop	SLNPSS	On	SNPONQ
Blank	SLNPBQ	Reverse	SNPREVQ
Up—Down	SLNPUDQ	Close	SNPCLOSEQ
Run—Jog	SLNPRJQ	Open	SNPOOPENQ
Auto—Hand	SLNPAHQ	Up	SNPUPQ
Off—Remote	SLNPORQ	Test	SNPTESTQ
Off—On	SLNPOFON	Low	SNPLOWQ
		High	SNPHIGHQ

① Custom nameplates are not available.

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

Contender™ Series Factory Sealed Control Stations and Pilot Lights

Mounting Bodies. Explosionproof, Dust-Ignitionproof

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	Type	Hub Size (Inches)	Catalog Number	
			Malleable Iron	Aluminum
1-Gang				
	Dead-End	1/2	EDS171	EDS171-SA
		3/4	EDS271	EDS271-SA
		1	EDS371	EDS371-SA
	Feed-Thru	1/2	EDSC171	EDSC171-SA
		3/4	EDSC271	EDSC271-SA
		1	EDSC371	EDSC371-SA
2-Gang				
	Dead-End	1/2	EDS172	EDS172-SA
		3/4	EDS272	EDS272-SA
		1	EDS372	EDS372-SA
	Feed-Thru	1/2	EDSC172	EDSC172-SA
		3/4	EDSC272	EDSC272-SA
		1	EDSC372	EDSC372-SA
3-Device				
	Dead-End	1/2	EDS147	EDS147-SA
		3/4	EDS247	EDS247-SA
		1	EDS347	EDS347-SA
	Feed-Thru	1/2	EDSC147	EDSC147-SA
		3/4	EDSC247	EDSC247-SA
		1	EDSC347	EDSC347-SA
Tandem ①				
	Dead-End	1/2	EDS177	EDS177-SA
		3/4	EDS277	EDS277-SA
		1	EDS377	EDS377-SA
	Feed-Thru	1/2	EDSC177	EDSC177-SA
		3/4	EDSC277	EDSC277-SA
		1	EDSC377	EDSC377-SA

① For tandem bodies, external seals must be installed within 1.5 meters (5 feet) of each conduit entrance for Class I, Groups C and D.

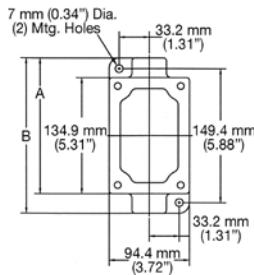
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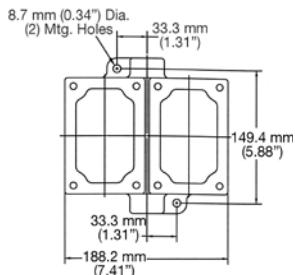
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Mounting Body Dimensions in Millimeters (Inches)

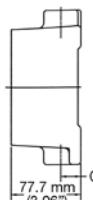
1-Gang



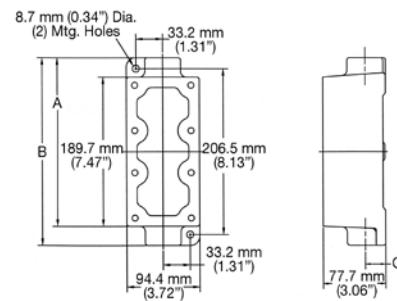
2-Gang



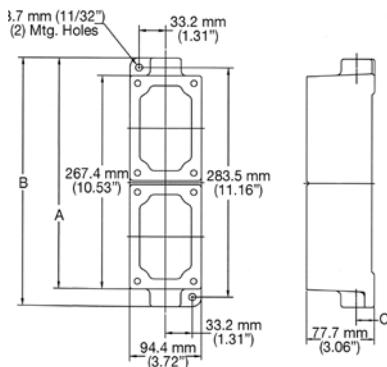
1- and 2-Gang Side View



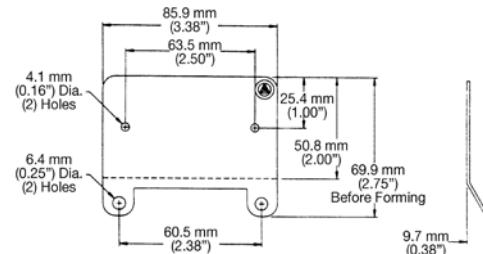
3-Device



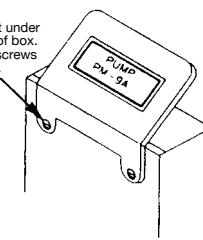
Tandem



NPBRKT Nameplate Mounting Bracket



Secure bracket under
cover screws of box.
Torque cover screws
to 35° - lbs.



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)	173.0 (6.81)	22.4 (0.88)
	1	156.7 (6.17)	179.6 (7.03)	25.4 (1.00)
2-Gang	1/2	153.9 (6.06)	173.0 (6.81)	22.4 (0.88)
	3/4	153.9 (6.06)	173.0 (6.81)	22.4 (0.88)
	1	156.7 (6.17)	179.6 (7.03)	25.4 (1.00)
3-Device	1/2	211.8 (8.34)	233.4 (9.19)	25.4 (1.00)
	3/4	211.8 (8.34)	233.4 (9.19)	25.4 (1.00)
	1	211.8 (8.34)	233.4 (9.19)	25.4 (1.00)
Tandem	1/2	287.3 (11.31)	309.1 (12.09)	22.4 (0.88)
	3/4	287.3 (11.31)	309.1 (12.09)	22.4 (0.88)
	1	290.6 (11.44)	312.7 (12.31)	25.4 (1.00)