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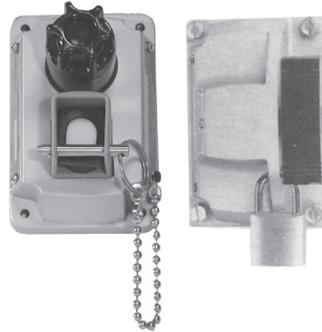
Securing Rod for Push Button Lockout Guard – available as optional item. Lockout Guard furnished as standard with the Push Button, may also be padlocked. Suffix– S153.

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

SPBB Design Features
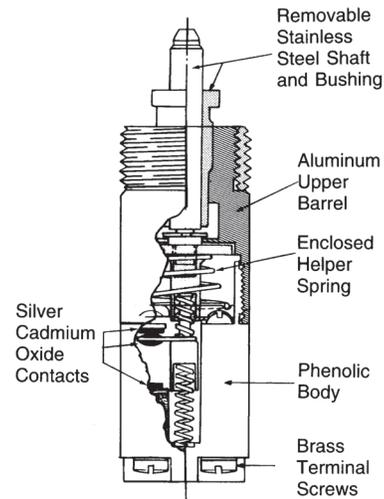
Removable Stainless Steel Shaft and Bushing

Aluminum Upper Barrel

Enclosed Helper Spring

Silver Cadmium Oxide Contacts

Phenolic Body

Brass Terminal Screws

EMERSON

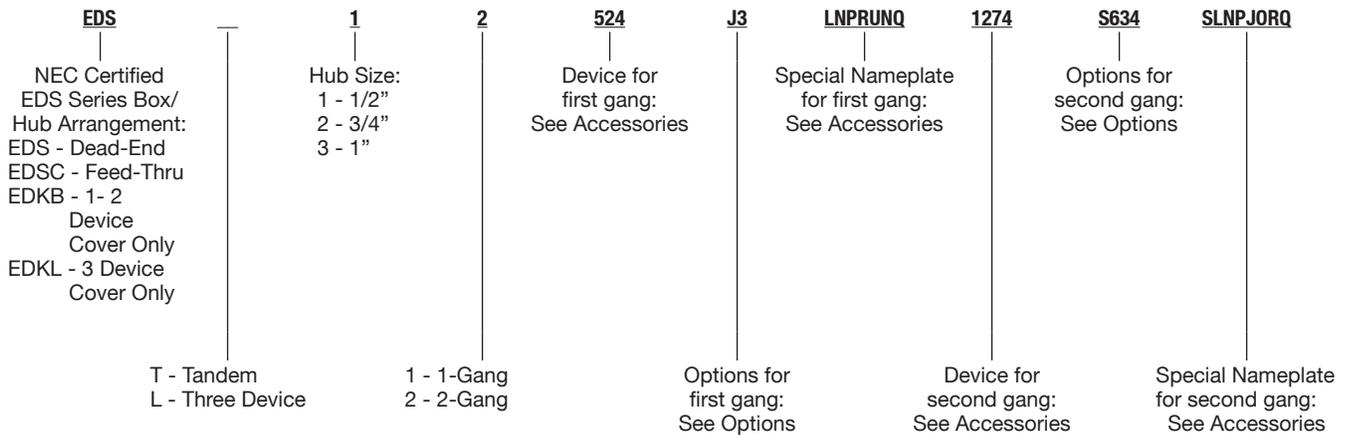# Contender™ Series Factory Sealed Control Stations and Pilot Lights

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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 - 1/2"
2 - 3/4"
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**

APPLETON

CONTROLS: NEC/CEC EXPLOSIONPROOF CONTROL STATIONS AND SWITCHES

EMERSON

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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	**LNPFWDQ**
Jog	**LNPJOGQ**
Run	**LNPRUNQ**
Stop	**LNPSPQ**
Start	**LNPSTQ**
Down	**LNPDOWNQ**
Fast	**LNPFASTQ**
Slow	**LNPSLOWQ**
Raise	**LNPRAISEQ**
Lower	**LNPLOWERQ**
Reset	**LNPRESETQ**
Off	**LNPOFFQ**
On	**LNPONQ**
Reverse	**LNPREVQ**
Close	**LNPCLOSEQ**
Open	**LNPOPENQ**
Up	**LNPUPQ**
Test	**LNPTESTQ**
Low	**LNPLOWQ**
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	**SLNPLORQ**
Jog—Off—Auto	**SLNPJOAQ**
Momentary Push Buttons	
For Rectangular Weatherboot Style Only (not for round weatherboot style)	
Blank ②	**SNPBQ**
Forward	**SNPFWDQ**
Jog	**SNPJOGQ**
Run	**SNPRUNQ**
Stop ②	**SNPSPQ**
Start ②	**SNPSTQ**
Down	**SNPDOWNQ**
Fast	**SNPFASTQ**
Slow	**SNPSLOWQ**
Raise	**SNPRAISEQ**
Lower	**SNPLOWERQ**
Reset	**SNPRESETQ**
Off	**SNPOFFQ**
On	**SNPONQ**
Reverse	**SNPREVQ**
Close	**SNPCLOSEQ**
Open	**SNPOPENQ**
Up	**SNPUPQ**
Test	**SNPTESTQ**
Low	**SNPLOWQ**
High	**SNPHIGHQ**

① *Custom nameplates are not available.*
② *Included as standard (no need to use suffix).*

EMERSON

Contender™ Series Factory Sealed Control Stations and Pilot Lights
For Contender™ Bodies

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

Covers

	Description	Contact Arrangement	Nameplate Marking	Catalog Number ①
Complete with Push Button — Factory Sealed — Momentary Contact *For use on standard EDS bodies (furnished with 4 stainless steel captive bolts)*				
EDKB–U1 EDKB–U2	1 Circuit Universal		Start/Stop	**EDKB-U1**
	2 Circuit Universal		Start/Stop	**EDKB-U2**
Complete with Mushroom Head Push Button — Factory Sealed — Maintained Contact *For use on standard EDS bodies*				
EDKB–UM1 EDKB–UM2	1 Circuit Universal (Red)		Emergency Stop	**EDKB-UM1**
	2 Circuit Universal (Red)		Specify	**EDKB-UM2**
Complete with Pilot Lights — Factory Sealed — Momentary Contact *6 Watt 120 Vac, Type 6S6 Lamp. For use on standard EDS bodies (furnished with 4 stainless steel captive bolts)*				
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**
Complete with Pilot Lights and Push Buttons — Factory Sealed *For use on standard EDS bodies (furnished with 8 stainless steel captive bolts)*				
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**

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****.*

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