

# 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

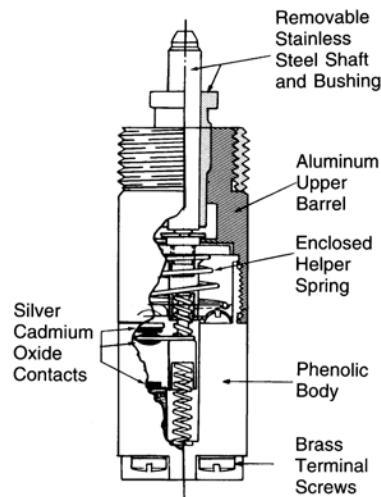


Securing Rod for Push Button Lockout Guard – available as optional item. Lockout Guard furnished as standard with the Push Button, may also be padlocked. Suffix- **S153**.

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



### SPBB Design Features



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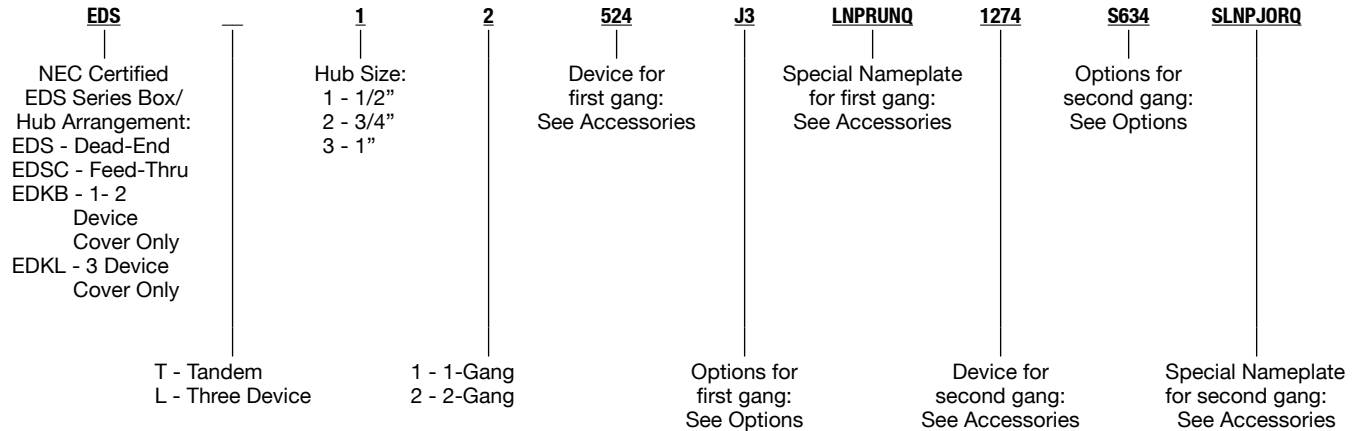
Class I, Division 2, Groups B, C, D

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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<br>1-G, 2-G Tandem | Available in<br>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    |
|--------------------------------------------------------------|-----------|
| <b>Mushroom Head Push Buttons (Maintained and Momentary)</b> |           |
| Start                                                        | MNPSTQ    |
| Stop                                                         | MNPSPQ    |
| Emergency Stop                                               | MNPESTPQ  |
| Blank                                                        | MNPBQ     |
| <b>Pilot Light Nameplates</b>                                |           |
| 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  |
| <b>Two Position Selection Switch Nameplates</b>              |           |
| 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    |
|---------------------------------------------------------------------------------|-----------|
| <b>Three Position Selection Switch Nameplates</b>                               |           |
| 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  |
| <b>Momentary Push Buttons</b>                                                   |           |
| <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 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<br>(Inches) | Description             | Nameplate<br>Marking                                                                | Catalog Number |           |          |
|-------------------------------------------------------------------------------------|----------------------|-------------------------|-------------------------------------------------------------------------------------|----------------|-----------|----------|
|                                                                                     |                      |                         |                                                                                     | Dead-End       | Feed-Thru |          |
| 1-Gang ①                                                                            |                      |                         |                                                                                     |                |           |          |
|    | 1/2                  | 1 Circuit<br>Universal  |    | Start/Stop     | EDS1184   | EDSC1184 |
|                                                                                     | 3/4                  |                         |                                                                                     |                | EDS2184   | EDSC2184 |
|                                                                                     | 1                    |                         |                                                                                     |                | EDS3184   | EDSC3184 |
|    | 1/2                  | 2 Circuits<br>Universal |    | Start/Stop     | EDS1190   | EDSC1190 |
|                                                                                     | 3/4                  |                         |                                                                                     |                | EDS2190   | EDSC2190 |
|                                                                                     | 1                    |                         |                                                                                     |                | EDS3190   | EDSC3190 |
| Red Mushroom Head — Maintained Contact — Emergency Stop Nameplate                   |                      |                         |                                                                                     |                |           |          |
|   | 1/2                  | 1 Circuit<br>Universal  |    | Emergency Stop | EDS1714   | EDSC1714 |
|                                                                                     | 3/4                  |                         |                                                                                     |                | EDS2714   | EDSC2714 |
|                                                                                     | 1                    |                         |                                                                                     |                | EDS3714   | EDSC3714 |
| 2-Gang ①                                                                            |                      |                         |                                                                                     |                |           |          |
|  | 1/2                  | 2 Circuit<br>Universal  |  | Start/Stop     | EDS1284   | EDSC1284 |
|                                                                                     | 3/4                  |                         |                                                                                     |                | EDS2284   | EDSC2284 |
|                                                                                     | 1                    |                         |                                                                                     |                | EDS3284   | EDSC3284 |
|  | 1/2                  | 4 Circuits<br>Universal |  | Start/Stop     | EDS1290   | EDSC1290 |
|                                                                                     | 3/4                  |                         |                                                                                     |                | EDS2290   | EDSC2290 |
|                                                                                     | 1                    |                         |                                                                                     |                | EDS3290   | EDSC3290 |

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