

EDS / EFS Series Control Stations

DSD Cover and Device Sub-assemblies

Cl. I, Div. 1 & 2, Groups B*, C, D†
Cl. II, Div. 1, Groups E, F, G
Cl. II, Div. 2, Groups F, G
Cl. III
NEMA 3, 7B*CD, 9EFG

Explosionproof
Dust-Ignitionproof
Raintight
Wet Locations

4C

For use with EDSCM modular control device bodies see page 519 and EDS/EDSC back boxes.

Features:

- Large machine screws for fastening covers to bodies
- Lockout hole for padlock having 1/4" hasp is provided when used with covers for front lever and side rocker type operation
- Lockout provisions on front operated pushbutton (marked "STOP" and "OFF") and all selector switch covers
- For covers with front lever and side rocker type operating handles, threaded type shafts and bushings are used to ensure flametightness
- Accurately ground flange for flametight joint when mated with ground flange on back box

Certifications and Compliances:

(When used with EDSCM & EDS bodies):

- NEC/CEC:
 - Class I, Division 1 & 2, Groups C, D†
 - Class I, Division 2, Groups B, C, D
 - Class II, Division 1, Groups E, F, G
 - Class II, Division 2, Groups F, G
 - Class III
- NEMA/EEMAC: 3, 7B (Div. 2) CD, 9EFG
- UL Standards: 894, 698
- CSA Standard: C22.2 No. 30

Pushbuttons, Pilot Lights & Selector Switches (when used with EFS bodies):

- NEC/CEC:
 - Class I, Division 1 & 2, Groups B, C, D
 - Class II, Division 1, Groups E, F, G
 - Class II, Division 2, Groups F, G
 - Class III
- NEMA/EEMAC: 3, 7BCD, 9EFG
- UL Standard: 1203
- CSA Standard: C22.2 No. 30

Standard Materials:

- Covers, front operated – Feraloy iron alloy and copper-free aluminum
- Covers, side operated – copper-free aluminum
- Shafts and shaft bushings – stainless steel
- Rocker handles, pushbuttons and guards – type 6 / 6 nylon
- Sealing enclosures – copper-free aluminum

CPS delayed action receptacle cover:

- Receptacle housing – copper-free aluminum
- Insulation – diallyl phthalate (DAP)
- Contacts – brass

Standard Finishes:

- Feraloy – electrogalvanized and aluminum acrylic paint
- Copper-free aluminum – natural



Options:

The following special options are available by adding suffix to Cat. #:

| Description | Suffix |
|---|-----------------|
| • Lockout provision on front operated pushbutton cover (standard on buttons marked "STOP" and "OFF")..... | S153 |
| • Three-position selector switches with modified operation: Momentary contact clockwise operation, spring return to center, maintained contact counter-clockwise operation..... | S634 |
| Momentary contact counter-clockwise operation, spring return to center, maintained contact clockwise operation..... | S635 |
| • Momentary red emergency "STOP" button – front operated mushroom button, breaks normally closed contacts only (DL02 legend plate included – must specify legend text)..... | S111 |
| • Bodies and covers – copper-free aluminum..... | SA |
| • For 24 VDC operation on pilot lights..... | S300 |
| • Maintained red emergency "STOP" button with lockout – front operated mushroom button breaks normally closed and makes normally open contacts (push to stop), lockout standard (will not fit with a pilot light if transformer is required)..... | S769 |
| • Spring return to center from right and left (For DEV43 or DEV44 only)..... | S842 |
| • Key Operated – removable from all positions..... | S847 K1† |
| • Key Operated – removable from left position for DEV42 or from center for DEV43 and DEV44..... | S847 K2† |
| • Key Operated – removable from right position for DEV42 or from left for DEV43 and DEV44..... | S847 K3† |
| • Key Operated – removable from right position for DEV43 and DEV44..... | S847 K4† |

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Ordering Information: Manual Motor Starters

| Poles | Max. H.P. | Max. Volts A.C. | Cat. # |
|---|-----------|-----------------|------------------|
| With Allen-Bradley Bulletin 600 Switches | | | |
| 1 | 1 | 115–230 | DSD910 ① |
| 2 | 1 | 115–230 | DSD911 ① |
| With General Electric Switches | | | |
| 1 | 1 | 115–230 | DSD912 ①§ |
| 2 | 1 | 115–230 | DSD913 ①§ |
| With Cutler-Hammer Switches | | | |
| 1 | 1 | 115–230 | DSD914 ①§ |
| 2 | 1 | 115–230 | DSD915 ①§ |
| With Arrow-Hart Switches Without Overload Protection | | | |
| 2 | 5 | 250 (30A) | DSD916 |
| 2 | 7.5 | 600 (30A) | DSD916 |
| 3 | 7.5 | 250 (30A) | DSD917 |
| 3 | 15 | 600 (20A) | DSD917 |



† When a CPS receptacle cover device is used, the assembly meets requirements for Class I, Groups C and D areas only.

* For pushbuttons, pilot lights, & selector switches, use EFS back box with required external conduit seal for 1 inch hub size, within 5 feet for Class I, Division 1, Group B applications.

‡ Additional key lock housings available; please contact Customer Service.

§ A comparable factory sealed cover will fit on the EDSCM21 body, EDS and EDSC bodies and in bottom gang of EDSCM33 and EDSCM63 bodies. To order, add suffix S701 to catalog number.

① Includes one interchangeable heater. To select heater see pages 479–480. Symbol 0 (zero) may be used to indicate heater omitted.

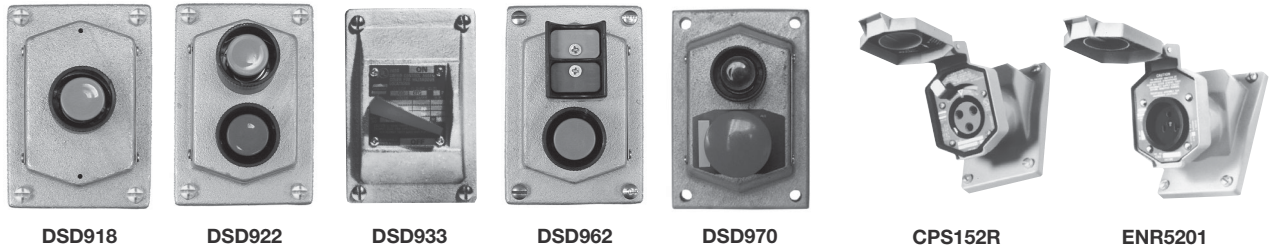
4C

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Explosionproof
 Dust-Ignitionproof
 Raintight
 Wet Locations



For use with EDSCM modular control device bodies see page 519 & EFS/EDS back boxes.

Ordering Information

Front Operated Pushbutton Stations 600 VAC Heavy Duty, Factory Sealed

| Number of Cover Buttons | Normal Position | Diagram | Cat. # |
|-------------------------|---|---------|--------------|
| 1 | 1 Circuit Universal | | DSD918 ① |
| 1 | 2 Circuits Universal | | DSD919 ① |
| | 2 Circuits | | DSD920 ①■ |
| 2 | 2 Circuits Universal | | DSD921 ① |
| 2 | 2 Circuits Start-Stop unless otherwise specified | | DSD922 ①■ |
| 2 | 2 Circuits Universal Mushroom Head | | DSD970 ① |
| 3 (2-operator) | 3 Circuits Universal | | DSD962 ① |
| 3 (3-operator) | 3 Circuits Universal | | DS511 ① SA\$ |
| 3 (3-operator) | 3 Circuits Universal Double pilot light - single pushbutton combo | | DS513 ① SA\$ |
| 3 (3-operator) | 3 Circuits Universal Double pushbutton - single pilot light combo | | DS514 ① SA\$ |

Front Operated General Use Snap Switch

| Style | Amperes 120 VAC | 277 VAC | Cat. # |
|--------|-----------------|---------|---------|
| 1-Pole | 20 | 20 | DSD933‡ |
| 2-Pole | 20 | 20 | DSD934‡ |
| 3-Pole | ▲ | ▲ | DSD935Ⓞ |
| 3-Way | 20 | 20 | DSD936‡ |
| 4-Way | 20 | 20 | DSD937‡ |
| 1-Pole | 30 | 30 | DSD939‡ |
| 2-Pole | 30 | 30 | DSD940‡ |
| 3-Way | 30 | 30 | DSD941‡ |

Delayed Action Receptacles Factory Sealed

| Rating | Cat. # |
|---|-----------------------------|
| 20 A, 1 HP, 125-250 VAC 60 Hertz 20 A, 18 VDC | CPS152R (2 wire, 3 pole) |
| 30 A, 1 1/2 HP, 125-250 VAC 60 Hertz; 7 A, 1/2 HP, 480 VAC, 60 Hertz | CPS532R (2 wire, 3 pole) |
| 30 A, 3 HP, 125-250 VAC 60 Hertz; 7A, 1 HP, 480 VAC, 60 Hertz | CPS732R (3 wire, 4 pole) |

General Purpose, Dead Front Factory Sealed

| Rating | Cat. # | Diagram |
|---------------|---------|---------|
| 20 A, 125 VAC | ENR5201 | |
| 20 A, 250 VAC | ENR6202 | |

① If desired, markings on indicating plates may be added to catalog number. Select from the list of standard markings below:

| | | | |
|-----------|-------|-------|-----------|
| START | OFF | RESET | LIGHT ON |
| STOP | RUN | TRIP | HAND |
| ON | JOG | TEST | AUTOMATIC |
| EMERGENCY | OPEN | DOWN | RAISE |
| FORWARD | CLOSE | IN | LOWER |
| REVERSE | UP | OUT | |

* For pushbuttons, pilot lights, & selector switches, use EFS back box with required external conduit seal for 1 inch hub size, within 5 feet for Class I, Division 1, Group B applications.

† When a CPS receptacle cover device is used, the assembly meets requirements for Class I, Groups C and D areas only.

■ Two universal contact blocks, must be wired as two circuits with one normally open and one normally closed. 1 green button, 1 red button, and lockout provision provided as standard.

▲ 16 Amp., 125V.
 10 Amp., 250V.

‡ To order a comparable factory sealed cover for EDS, EDSC, EDSCM21 and the bottom gang of EDSCM33 and EDSCM63 bodies, add suffix S697. Factory sealed for Class I, Division 2, Group B.

Ⓞ Cannot be factory sealed.

§ Can only be used with EFD Series 1 1/2 gang back boxes. Pushbuttons include contact blocks. Standard pushbutton color is black. For optional colors - red, green - write in color. Example: DS511 GREEN BLACK RED-SA. First color is for uppermost button. For optional legend markings write in marking after device operator color. Example: DS513-J3 JOG-J1 STOP GREEN-SA.

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4C



DSD951



DSD925



DSD947-J1-J1



DSD958



DSD957



DSD961-J1

For use with EDSCM modular control device bodies see page 519 & EFS/EDS back boxes.

Ordering Information Side Operated Pushbutton Station 600 VAC Heavy Duty, Factory Sealed

| Normal Position | Diagram | Cat. # |
|--|---------|----------|
| 1 Circuit Universal | | DSD949 ③ |
| 2 Circuits Universal | | DSD950 ③ |
| 2 Circuits 1 Open - A 1 Closed - B Start-Stop unless otherwise specified | | DSD951 ③ |

Selector Switches Maintained Contact 600 VAC Heavy Duty, Factory Sealed

| Style | Position 1 | Position 2 | Position 3 | Cat. # |
|------------------------------|----------------------|------------|------------|----------|
| Two Circuit | A1 A2 | | | DSD923 ④ |
| Two Position Four Circuit | A1 A2 B1 B2 | | | DSD924 ④ |
| Two Circuit | A1 A2 | | | DSD925 ④ |
| Three Position | A1 A2 B1 B2 | | | DSD926 ④ |
| Four Circuit | A1 A2 B1 B2 | | | DSD927 ④ |

* For pushbuttons, pilot lights, & selector switches, use EFS back box with required external conduit seal for 1 inch hub size, within 5 feet for Class I, Division 1, Group B applications.
 †LED pilot lights can be furnished in place of standard incandescent pilot lamps. Add suffix LED to Cat. No. after last color symbol.

§ Can only be used with EFD Series 1½ gang back boxes. Pushbuttons include contact blocks. Standard pushbutton color is black. For optional colors - red, green - write in color. Example: DS511 GREEN BLACK RED-SA. First color is for uppermost button. For optional legend markings write in marking after device operator color. Example: DS513-J3 JOG-J1 STOP GREEN-SA.

Crouse-Hinds

by E.T.N

Pilot Light Devices† Factory Sealed

| Description | Diagram | Cat. # |
|--|---------|------------------------------------|
| With one pilot light | | DSD948 ① |
| With two pilot lights (Not available with a transformer) | | DSD947 ① |
| With one pilot light and transformer | | DSD948 ① ② |
| With one pilot light and pushbutton station | | DSD958 ① |
| With one pilot light and 1 double pushbutton station | | DSD961 ① |
| With one pilot light & transformer and 1 double pushbutton station | | DSD961 ① ② |
| Triple pilot light | | DS512 ① SA§ |
| Double pilot light - single pushbutton combo | | DS513 ① SA§ |
| Double pushbutton - single pilot light combo | | DS514 ① SA§ |
| With one pilot light & 2 position selector switch, two circuit (pos. 1 - N.O., pos. 2 - N.C.) | | A1 A2 DSD973 ① ④ |
| With one pilot light & 2 position selector switch, four circuit (pos. 1 - N.O., pos. 2 - N.C. for both switches) | | A1 A2 B1 B2 DSD974 ① ④ |
| With one pilot light & 3 position selector switch, two circuit (pos. 1 - N.O., pos. 2 - open, pos. 3 - N.C.) | | A1 A2 DSD975 ① ④ |
| With one pilot light & 3 position selector switch, four circuit (pos. 1 - N.O., pos. 2 - open, pos. 3 - N.C. for both switches) | | A1 A2 B1 B2 DSD976 ① ④ |
| With one pilot light & 3 position selector switch, four circuit (pos. 1 - N.C., pos. 2 - N.O., pos. 3 - N.O. for switch A; pos. 1 - N.O., pos. 2 - N.O., pos. 3 - N.C. for switch B) | | A1 A2 B1 B2 DSD977 ① ④ |

Blank Cover

Description **DSD957**

① Add color symbol for each pilot light from table below.

| Color | Symbol | Color | Symbol | Color | Symbol |
|-------|--------|-------|--------|-------|--------|
| Red | J1 | Amber | J6 | Blue | J11 |
| Green | J3 | Clear | J10 | | |

② Add suffix below for transformer primary voltage:

Transformers - Voltages above 125

| Nom. Volts 50-60Hz Transformer | Primary Voltage Range | Suffix |
|--------------------------------|-----------------------|--------|
| 220 / 110 | 220-240 | T2 |
| 440 / 110 | 440-480 | T4 |
| 550 / 110 | 550-600 | T5 |

③ If desired, markings on indicating plates may be added to catalog number. Select from the list of standard markings below:

| | | | |
|-------------------|-------|-------|-----------|
| START | OFF | RESET | LIGHT ON |
| STOP | RUN | TRIP | HAND |
| ON | JOG | TEST | AUTOMATIC |
| EMERGENCY FORWARD | OPEN | DOWN | RAISE |
| REVERSE | CLOSE | IN | LOWER |
| | UP | OUT | |

④ Specify indicating plate markings. Standard indicating plate markings available are as follows:

Two-Position

| | | |
|------------------|-------------|--------------|
| RUN, JOG | FAST, SLOW | IN, OUT |
| HAND, AUTOMATIC | OPEN, CLOSE | RAISE, LOWER |
| FORWARD, REVERSE | UP, DOWN | START, STOP |
| | ON, OFF | |

Three-Position

| | |
|-----------------------|------------------|
| JOG, OFF, RUN | 1, OFF, 2 |
| AUTOMATIC, OFF, HAND | OPEN, OFF, CLOSE |
| FORWARD, OFF, REVERSE | UP, OFF, DOWN |
| FAST, OFF, SLOW | |