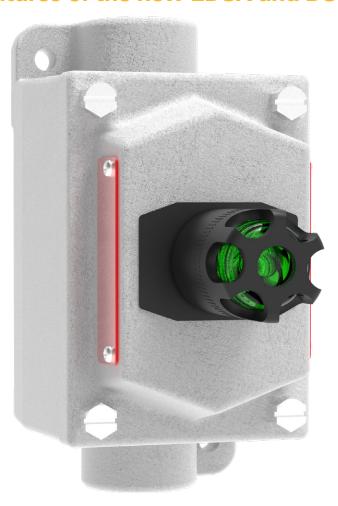




The next generation of Crouse-Hinds series hazardous area control stations and switches

Eaton's innovative and factory sealed control station solutions safely and efficiently control power and protect circuits in industrial and hazardous area environments worldwide.

Features of the new EDSX and DSDX NEMA 4X rated devices



NEMA 4X gasket:

 Provides NEMA 4X* protection against water ingress in the most demanding conditions



Captive cover screws:

• Provide secure fastening while helping reduce costs associated with lost screws or damage

Extended temperature range:

• Extended temperature range of -40°C to +60°C standard for improved reliability in extreme environments



^{*} If existing back box is iron and is used with new X series cover, it is NEMA 4 rated. To achieve NEMA 4X rating, the back box and the cover must be aluminum. Questions, please contact your local sales rep or Eaton's customer service.

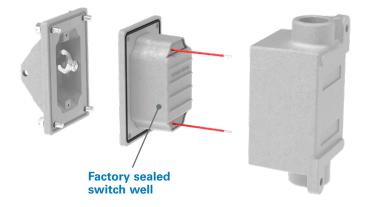
The benefits of factory sealed control stations and switches

Reduce material costs

Reduce labor costs

Improve safety





- EDS and EDSX factory sealed snap switches or manual motor starting switches do not need external sealing
- The switches are enclosed in a unique sealing well with double flanges, which mate with the cover and the body
- Small, compact enclosures have accurately ground wide flanges on body, cover and sealing well for flametight joints
- Wiring pigtails are factory sealed from under the sealing well.
- Reliable pouring of seals at the factory ensures safe sealing.

Control Stations



- Factory sealed EDS and EDSX pilot light, pushbutton and selector switch control stations do not need external sealing.
- Device contacts are factory sealed in explosionproof ESWP contact blocks.
- Small, compact enclosures have accurately ground wide flanges on both the body and cover for a flametight joint.

Material and labor savings of factory sealed control station

Factory Sealed devices eliminate the need for explosion proof conduit seals in most applications.

No need to install explosion proof conduit seal and sealing compound.

- Eliminates 3/4" EYS21 seal fitting, \$32.01, and Chico compound, \$21.99. Saves \$54.00.
- Eliminates 50 minutes installation time for Chico seal, saves \$100. Satisfies requirements of NEC[®] Sections 501.5(A)(1), 501.6(A) and (B) and 505.16(B)(1) and (2).

Material and labor savings of at least \$154.00 per conduit entry



EDS/EDSX fully assembled control stations

Crouse-Hinds series EDS/EDSX pre-built hazardous area control stations with pushbuttons and selector switches are used in conjunction with magnetic starters or contactors for remote control of motors. Pilot lights are available to visually indicate that the desired function is being performed.

EDS/EDSX control stations are factory sealed to prevent arcing of the enclosed device from causing ignition of a hazardous atmosphere external to the enclosure. Factory sealing eliminates the need for external seals, simplifying installation and helping reduce material and labor costs.

Applications:

EDS/EDSX factory sealed enclosures are installed in a rigid metallic conduit system for surface mounting adjacent to or remote from equipment being controlled, and are used:

- To help prevent arcing of enclosed device from causing ignition of a specific hazardous atmosphere, or atmospheres, external to the enclosure
- In industrial areas such as chemical plants, oil and gas refineries, paint and varnish manufacturing plants, gasoline bulk loading terminals, grain elevators, grain processing industries, coal processing or handling areas, or metal handling or finishing areas where atmosphere may contain hazardous gases and/or dust
- In non-hazardous areas where sturdy, durable enclosures are required
- In conjunction with magnetic starters or contactors for remote control of motors

Manual motor starting switch enclosures are used:

- · For manual starting of small AC or DC motors
- To provide manual starting and stopping and, in the case of units with heaters, motor running protection

Features:

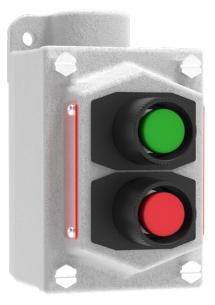
- Factory sealing eliminates external sealing fittings required for Class I, Division 1 & 2 environments, reducing installation costs and associated challenges
- Mounting lugs and taper tapped hubs with integral bushings
- Large captive screws for fastening cover to body (EDSX only)
- Lockout provisions on front operated pushbutton (marked "STOP" and "OFF") and selector switch covers
- Lockout hole for padlock having 1/4" hasp is provided when used with covers for front lever and side type operation
- On enclosures with front lever and side type operating handles, threaded type shafts and bushings are used to ensure hazardous protection
- Dead end (EDS) or through feed (EDSC) hubs 1/2" to 1" sizes
- When "STOP" is indicated, button is automatically red; when "START" is indicated, button is automatically green; otherwise, black buttons are standard

Electrical ratings:

- Contact block: 10A @ 600VAC, 5A @ 125VDC
- Pilot lights: 120V (1.2W LED, 6W incandescent), 24V S300 option (0.6W LED, 1.7W incandescent)

Standard materials:

- Bodies Feraloy iron alloy or copper-free aluminum
- Covers Feraloy iron alloy or copper-free aluminum
- Shafts and shaft bushings stainless steel
- Handle and pushbutton guards type 6/6 nylon



Standard finishes:

- Feraloy iron alloy electrogalvanized and aluminum acrylic paint
- · Copper-free aluminum natural
- Type 6/6 nylon black
- Stainless steel natural

Certifications and compliances:

EDS:

NEC:

- Class I, Divisions 1, Groups C, D
- Class I, Division 2, Group B, C, D
- · Class I, Zones 1 & 2, IIA
- Class I, Zones 2, IIB+H2
- Class II, Division 1, Groups E, F, G
- Class III

UL standard:

UL1203, UL121201, UL508

CSA standard:

• C22.2 No. 14, 25, 213-17

Environmental ratings:

- NEMA 3
- -25°C to +40°C

EDSX:

NEC:

- Class I, Divisions 2, Groups B,
- Class I, Zone 2, IIA, IIB+H2
- Class II, Division 1, Groups E, F, G
- Class III

UL standard:

UL1203, UL121201, UL508

CSA standard:

· C22.2 Nos. 14, 25, 213-17

Environmental ratings:

- NEMA 4X
- -40°C to +60°C

EDS/EDSX fully assembled snap switches

Crouse-Hinds series hazardous area snap switches are used with magnetic starters or contactors for control of motors. Snap switch control stations are factory sealed to prevent arcing of the enclosed device from causing ignition of a hazardous atmosphere external to the enclosure. Factory sealing eliminates the need for external seals, simplifying installation and reducing material and labor costs.

Applications:

Snap switches are installed in a rigid metallic conduit system for surface mounting adjacent to or remote from equipment being controlled and are used:

- To help prevent arcing of enclosed device from causing ignition of a specific hazardous atmosphere, or atmospheres, external to the enclosure
- In industrial areas such as chemical plants, oil and gas refineries, paint and varnish manufacturing plants, gasoline bulk loading terminals, grain elevators, grain processing industries, coal processing or handling areas, or metal handling or finishing areas where atmosphere may contain hazardous gases and/or dust
- In non-hazardous areas where sturdy, durable enclosures are required

Features:

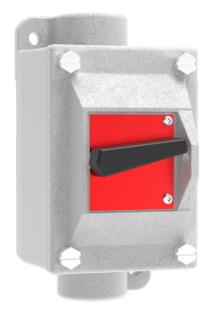
- · Small and compact in design
- The switches are enclosed in a unique sealing well with double flanges, which mate with the cover and the body.
- Small, compact enclosures have accurately ground wide flanges on body, cover and sealing well for flametight joints.
- Wiring pigtails are factory sealed from under the sealing well.
- Mounting lugs and taper tapped hubs with integral bushings
- · Large captive screws for fastening cover to body (EDSX only)
- · Lockout hole for padlock having 1/4" hasp is provided
- Threaded type shafts and bushings are used to ensure hazardous area protection

Standard materials:

- Bodies Feraloy iron alloy or copper-free aluminum
- Covers Feraloy iron alloy or copper-free aluminum
- Shafts and shaft bushings stainless steel
- Sealing enclosures copper-free aluminum

Standard finishes:

- Feraloy iron alloy electrogalvanized and aluminum acrylic paint
- Copper-free aluminum natural
- Stainless steel natural



Certifications and compliances:

EDS/DSD:

NEC:

- Class I, Divisions 1 & 2, Groups B*, C, D
- Class I, Zones 1 & 2, IIA, IIB+H2*
- Class II, Division 1, Groups E, F, G
- Class III

UL standards:

• UL1203, UL121201, UL508

CSA standard:

· C22.2 Nos. 14, 25, 213-17

Environmental ratings:

- NEMA 3
- -25°C to +40°C

EDSX/DSDX:

NEC:

- Class I, Division 2, Groups B, C, D
- Class I, Zone 2, IIA, IIB+H2
- Class II, Division 1, Groups E, F, G
- Class III

UL standards:

UL1203, UL121201, UL508

CSA standard:

• C22.2 Nos. 14, 25, 213-17

Environmental ratings:

- NEMA 4X
- -40°C to +55°C. See de-rating table below.

30A EDSX/DSDX snap switch temperature de-rating

Ambient temp (°C)	Single gang	Multi gang or cover only
40	30A	30A
45	30A	27A
50	27A	24A
55	24A	21A

This table applies only to 30A EDSX/DSDX product. No de-rating required for 20A EDSX/DSDX product.

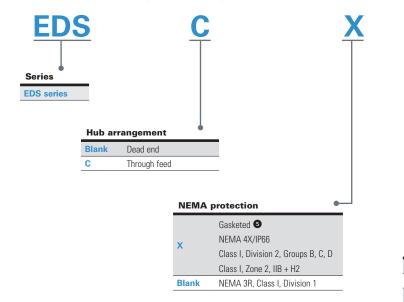
^{*}For single gang enclosures only. Manual motor starters, circuit breakers and EDS(C)-23 snap switches are not rated for Cl. I, Div. 1 & 2, Gr. B.

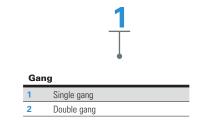
EDS/EDSX fully assembled control stations and switches

Ordering information

Part number example EDSCX215 SA

NEMA 4X rated aluminum EDSC through feed, single gang, front operated pushbutton control station with ¾" hubs, 2 circuit switch and 2 buttons







Maintained mushroom pushbutton



Single pushbutton



Hub size

3/4"

Front operated selector switch



Single pilot light



Double pilot lights



Double pushbuttons



Combination pushbutton and pilot light



Combination mushroom head pushbutton and single pushbutton







Heater (motor starting switch only)

G2 through G42	GE heaters
P1 through P39	Allen-Bradley heaters
W1 through W39	Westinghouse heaters
0	Without heater

See page 8 for complete heater tables

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Operat	ors
Front of	perated pushbutton
84	1 Circuit universal switch (internal) - 1 button external
90	2 Circuit universal switch (internal) - 2 button external
5	2 Circuit switch (1 circuit open -A, 1 circuit closed -B) (internal) 2 button external 3
92	2 Circuit universal switch (internal) - 1 button external
55	2 Circuit switch (1 circuit open -A, 1 circuit closed -B (internal) 1 button external
Pilot lig	hts 6
524	Single pilot light enclosure
561	Double pilot light enclosure (not available with a transformer)
Combin	ation pushbutton and pilot lights
473	1 Pilot - (single gang), 1 pushbutton, 1 universal switch - ordering with transformers (T suffix)
471	1 Pilot on one cover - (2 gang only), 2 pushbuttons on the other cover, - ordering with transformers (T suffix)
868	2 Pilots on one cover - (2 gang only), 2 pushbuttons on the other cover, not available with a transformer
Front of	perated selector switch
271	2 Position, 2 circuit switch (internal)
272	2 Position, 4 circuit switch (internal)
273	3 Position, 2 circuit switch (internal) (position 1 - N.O., position 2 - open, position 3 - N.C.)
274	3 Position, 4 circuit switch (internal) (switch A = position 1 - N.O., position 2 - open, position 3 - N.C.; switch B - position 1 - N.O.; position 2 - open, position 3 - N.C.)
275	3 Position, 4 circuit switch (internal) (switch A = position 1 - N.C., position 2 - N.O., position 3 - N.O.; switch B - position 1 - N.O.; position 2 - N.O., position 3 - N.C.)
Front of	perated snap switch 4
29	Single cover assembly per gang, 1-pole, 20A 120/277 VAC (internal)
8	Single cover assembly per gang, 2-pole, 20A 120/277 VAC (internal)
30	Single cover assembly per gang, 3 way, 20A 120/277 VAC (internal)
40	Single cover assembly per gang, 4 way, 20A 120/277 VAC (internal)
31	Single cover assembly per gang, 1-pole, 30A 120/277 VAC (internal) - EDSX only
32	Single cover assembly per gang, 2-pole, 30A 120/277 VAC (internal) - EDSX only
33	Single cover assembly per gang, 3 way, 30A 120/277 VAC (internal) - EDSX only
60	Single cover assembly per gang, 3-pole, 30A 600 VAC (internal) - EDSX only
23	Single cover assembly per gang, 3-pole, 15A 125 VAC, 10 A 250 VAC (internal) (not factory sealed) (X option not available)
Front of	perated motor starting switch - external (NEMA 4X not available)
99	Single cover assembly per gang, 1-pole, A-B switch (internal)
100	Single cover assembly per gang, 2-pole, A-B switch (internal)
093	Single cover assembly per gang, 1-pole, GE switch (internal)
094	Single cover assembly per gang, 2-pole, GE switch (internal)
101	Single cover assembly per gang, 1-pole, West. switch (internal)

Single cover assembly per gang, 2-pole, West. switch (internal)

Options and legend markings

LED	LED pilot lights furnished in place of standard incandescent lights
SA	Bodies and covers aluminum - suffix required for "X" (gasketed, NEMA 4X ● /IP66) configuration
S111	Momentary contact, front operated, red mushroom-head button (breaks N.C. contacts only)
S153	Lockout on stop, front operated pushbutton (locks normally closed contacts in open position) $\ensuremath{ \bullet}$
S300	Lamp set up for 24 volt (AC & DC) (not available with transformer feature)
S634	3 Position selector switch w/momentary contact clockwise operation, spring return to center, maintained contact counter clockwise operation
S635	3 Position selector switch w/momentary contact counter clockwise operation, spring return to center, maintained contact clockwise operation
S752	Exterior epoxy powder coat finish
S769	Maintained contact, front-operated, mushroom-head button with lockout & guard (breaks N.C. Contacts and maintains N.O. Contacts)
S842	3 Position selector switch w/momentary contact left and right, spring return to center
J1	Red jewel
J3	Green jewel
J6	Amber jewel
J10	Clear jewel
J11	Blue jewel
T2	240/120 volt pilot light transformers
T4	480/120 volt pilot light transformer
T5	600/120 volt pilot light transformer
	marking note - See Instructions and Standard Marking Abbreviations on and Catalog Rules/Notes 9 9

Catalog Rules / Notes

- 1 If legend marking contains SP (STOP) or OF (OFF), Suffix S153 is NOT required. Lockout will be added. (Lockout not available in double pushbutton and with S111).
- 3 S769 only available on a single pushbutton assembly or one button of a 2-button
- Default legend marking is START-STOP unless otherwise specified.
- 1, 2, & 3-pole snap switches are marked ON-OFF, 3 & 4-way snap switches have blank stamping boxes, Motor starting switches are marked START-STOP. No alternate markings
- **3** X includes gasketing and o-rings on assembly to provide a CL.I, Div.2, Group B,C,D, CL.II, Div.1 Group E,F,G
 - NEMA 4X/IP66 corrosion-resistant rating for aluminum only (suffix SA required). Valid only for front operated pushbuttons (5, 55, 84, 90, 92), combination pushbutton and pilot lights (471, 473, 868), front operated selector switch (271-275), front operated snap switch (29, 8, 30, 40, 31, 32, 33, 60) and pilot lights (524, 561)
- 6 Pilot lights only available with EDSX or EDSCX devices

EDS/EDSX fully assembled control stations and switches

Heater tables‡:

Allen-Bradley

Max. motor full load amperage	Eaton's Crouse- Hinds symbol number	Max. motor full load amperage	Eaton's Crouse- Hinds symbol number
0.17	P1	2.92	P22
0.21	P2	3.09	P23
0.25	P3	3.32	P24
0.32	P4	3.77	P25
0.39	P5	4.16	P26
0.46	P6	4.51	P27
0.57	P7	4.93	P28
0.71	P8	5.43	P29
0.79	P9	6.03	P30
0.87	P10	6.83	P31
0.98	P11	7.72	P32
1.08	P12	8.24	P33
1.19	P13	8.90	P34
1.30	P14	9.60	P35
1.43	P15	10.80	P36
1.58	P16	12.00	P37
1.75	P17	13.50	P38
1.88	P18	15.20	P39
2.13	P19		
2.40	P20		
2.58	P21		

General Electric

Max. motor full load amperage	Eaton's Crouse- Hinds symbol number	Max. motor full load amperage	Eaton's Crouse- Hinds symbol number
0.48	G2	3.27	G23
0.53	G3	3.56	G24
0.58	G4	3.88	G25
0.65	G5	4.22	G26
0.71	G6	4.60	G27
0.78	G7	5.00	G28
0.86	G8	5.43	G29
0.95	G9	5.90	G30
1.04	G10	6.41	G31
1.14	G11	6.98	G32
1.25	G12	7.60	G33
1.37	G13	8.25	G34
1.49	G14	8.95	G35
1.63	G15	9.75	G36
1.78	G16	10.60	G37
1.95	G17	11.40	G38
2.13	G18	12.50	G39
2.32	G19	13.60	G40
2.53	G20	14.80	G41
2.76	G21	16.00	G42
3.01	G22		

Cutler-Hammer

Max. motor full load amperage	Eaton's Crouse- Hinds symbol number	Max. motor full load amperage	Eaton's Crouse- Hinds symbol number
0.43	W1	2.95	W21
0.48	W2	3.27	W22
0.53	W3	3.59	W23
0.58	W4	3.99	W24
0.64	W5	4.39	W25
0.71	W6	4.79	W26
0.78	W7	5.26	W27
0.87	W8	5.83	W28
0.95	W9	6.39	W29
1.03	W10	7.03	W30
1.15	W11	7.74	W31
1.27	W12	8.46	W32
1.35	W13	9.35	W33
1.51	W14	10.30	W34
1.67	W15	11.35	W35
1.83	W16	12.47	W36
1.99	W17	13.67	W37
2.23	W18	15.12	W38
2.47	W19	16.00	W39
2.71	W20		

These heaters are for motors rated 40°C continuously. For motors rated 50°C or 55°C, multiply full load current by 0.9 and use this value to select heaters. Symbol 0 (zero) must be used to indicate heater omitted. Includes one interchangeable heater.

Common EDS/EDSX catalog numbers

Туре	EDS control stations and switches with 3/4" hub†	Cat. # - dead end	Cat. # - through feed
Front operated pushbuttons	2 Circuit switch (1 circuit open -A, 1 circuit closed -B) (internal) 2 button external	EDSX215 SA	EDSCX215 SA
Front operated pushbuttons	1 Circuit universal switch (internal) - 1 button external	EDSX2184 SA	EDSCX2184 SA
Front operated pushbuttons	2 Circuit universal switch (internal) - 2 button external	EDSX2190 SA	EDSCX2190 SA
Pushbuttons and pilot lights	1 Pilot - (single gang), 1 pushbutton, 1 universal switch - ordering with transformers (T suffix)	EDSX21473 J3 SA	EDSCX21473 J3 SA
Pushbuttons and pilot lights	1 Pilot on one cover -(2 gang only), 2 pushbuttons on the other cover,-ordering w/ transformers (T suffix)	EDSX22471 J1 SA	EDSCX22471 J1 SA
Pushbuttons and pilot lights	2 Pilots on one cover - (2 gang only), 2 pushbuttons on the other cover, - not available w/ a transformer	EDSX22868 J1 J3 SA	EDSCX22868 J1 J3 SA
Selector switches	3 Position, 2 circuit switch (internal) (position 1-N.O., position 2-Open, position 3-N.C.)	EDSX21273 SA	EDSCX21273 SA
Selector switches	3 Position, 4 circuit switch (internal) (Sw.A = position 1-N.O., position 2-Open, position 3-N.C.; Sw.B - position 1-N.O., position 2-open, position 3-N.C.)	EDSX21274 SA	EDSCX21274 SA
Selector switches	2 Position, 2 circuit switch (internal)	EDSX21271 SA	EDSCX21271 SA
Snap switches	Single cover assembly per gang, 1-pole, 20 amp (internal)	EDSX2129 SA	EDSCX2129 SA
Snap switches	Single cover assembly per gang, 3 way, 20 amp (internal)	EDSX2130 SA	EDSCX2130 SA
Snap switches	Single cover assembly per gang, 2-pole, 20 amp (internal)	EDSX218 SA	EDSCX218 SA
Snap switches	Single cover assembly per gang, 4 way, 20 amp (internal)	EDSX2140 SA	EDSCX2140 SA
Snap switches	Single cover assembly per gang, 1-pole, 30 amp (internal)	EDSX2131 SA	EDSCX2131 SA
Snap switches	Single cover assembly per gang, 2-pole, 30 amp (internal)	EDSX2132 SA	EDSCX2132 SA
Snap switches	Single cover assembly per gang, 3 way, 30 amp (internal)	EDSX2133 SA	EDSCX2133 SA
Snap switches	Single cover assembly per gang, 3-pole, 30 amp 600 VAC (internal)	EDSX2160 SA	EDSCX2160 SA
Motor starter switch*	Single cover assembly per gang, 1-pole, A-B switch (internal)	EDS2199 0 SA	EDSC2199 0 SA
Motor starter switch*	Single cover assembly per gang, 1-pole, West. switch (internal)	EDS21101 0 SA	EDSC21101 0 SA
Motor starter switch*	Single cover assembly per gang, 2-pole, West. switch (internal)	EDS21102 0 SA	EDSC21102 0 SA
t NEMA AV antion not available			

^{*} NEMA 4X option not available

[‡] Select heater from table and use symbol number as second section of the catalog number. Example: EDS21101-W5. Insert symbol 0 (zero) to omit heater.

[†]Common catalog numbers shown with 3/4" hub. To order a different hub size, replace the first numeral "2" with "1" for 1/2" hub or "3" for 1" hub.

DSD/DSDX cover and device sub-assemblies

Crouse-Hinds series DSD/DSDX hazardous area cover and device sub-assemblies are for use with our EDS/EDSC back boxes and EDSCM modular multi-gang device bodies. DSD/DSDX covers are available with a wide variety of devices and configurations, including manual motor starters, front operated pushbuttons, general use snap switches, side operated pushbuttons, selector switches and pilot lights.

DSD/DSDX sub-assemblies are factory sealed to prevent arcing of the enclosed device from causing ignition of a hazardous atmosphere external to the enclosure. Factory sealing eliminates the need for external seals, simplifying installation and helping reduce material and labor costs.





Applications:

DSD/DSDX cover and device sub-assemblies are for mounting combinations of control device equipment for use in:

- Industrial areas such as chemical plants, oil and gas refineries, paint and varnish manufacturing plants, gasoline bulk loading terminals, grain elevators, grain processing industries, coal processing or handling areas where atmospheres may contain hazardous gases or dusts, and arcing of enclosed devices must not ignite the surrounding atmosphere
- Conjunction with magnetic starters or contactors for remote control and monitoring motors
- Manual starting and stopping of small AC or DC motors
- Controlling and supplying energy to portable electrical devices, such as motor generator sets, compressors, conveyors, portable tools, etc.

Features:

DSD/DSDX cover and device sub-assemblies have:

- Device contacts for pilot light, pushbutton, and selector switch control stations are factory sealed. External sealing is not required, improving safety and reducing costs.
- Factory-sealing available for motor starting switch and snap switch sub-assemblies. See ordering information tables for details
- Large captive screws for fastening cover to body (DSDX only).
- Retrofit design enables easy upgrade to NEMA 4X protection*.
 Simply purchase a DSDX cover & device assembly and use with the existing installed aluminum back box.
- Lockout hole for padlock having 1/4" hasp is provided when used with covers for front lever and side type operation
- Lockout provisions on front operated pushbutton (marked "STOP" and "OFF") and all selector switch covers
- For covers with front lever and side type operating handles, threaded type shafts and bushings are used to ensure hazardous protection
- Accurately ground flange for flametight joint when mated with ground flange on back box

Electrical ratings:

- Contact block: 10A @ 600VAC, 5A @ 125VDC
- Pilot lights: 120V (1.2W LED, 6W incandescent), 24V S300 option (0.6W LED, 1.7W incandescent)

Standard materials:

- Covers Feraloy iron alloy and copper-free aluminum
- · Shafts and shaft bushings stainless steel
- Handles, pushbuttons and guards type 6/6 nylon
- · Sealing enclosures copper-free aluminum

Standard finishes:

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

Certifications and compliances:

(When used with EDS/EDSC or EFS/EFSC back box):

DSD:

NEC:

- · Class I, Division 1, Groups C, D
- Class I, Division 2, Group B, C. D
- · Class I, Zones 1 & 2, IIA
- Class I, Zone 2, IIB+H2
- Class II, Division 1, Groups E, F, G
- Class III

UL standards:

UL1203, UL121201, UL508

CSA standard:

C22.2 Nos. 14, 25, 213-17

DSDX:

NEC:

- Class I, Division 2, Groups B, C, D
- Class I, Zone 2, IIA, IIB+H2
- Class II, Division 1, Groups E, F, G
- · Class III

UL standards:

• UL1203, UL121201, UL508

CSA standard:

• C22.2 Nos. 14, 25, 213-17

Environmental ratings:

Cover type	Back box material	NEMA rating	Temp. range
DSDX (aluminum)	Iron	NEMA 4	-40°C to +60°C
DSDX (aluminum)	Aluminum	NEMA 4X*	-40°C to +60°C
DSD (aluminum or iron)	Iron or aluminum	NEMA 3	-25°C to +40°C

^{*} If existing back box is iron and is used with new X series cover, it is NEMA 4 rated. To achieve NEMA 4X rating, the back box and the cover must be aluminum. Questions, please contact your local sales rep or Eaton's customer service.

DSD/DSDX cover and device sub-assemblies

Ordering information

Part number example

DSDX925 S634 SA

NEMA-4X* rated aluminum DSDX cover with three position, two circuit (N.O., Open, N.C.) selector switch with momentary contact clockwise operation, spring return to center, maintained contact counter clockwise operation





NEMA protection

x	Gasketed NEMA 4X/IP66 Class I, Division 2, Groups B, C, D
	Class I, Zone 2, IIB + H2
Blank	NEMA 3R, Class I, Division 1



Single pushbutton



Combination pushbutton and double pushbutton



Single keyed selector switch

975

977



Combination pilot light and double pushbutton



Combination selector switch and pilot light

Catalog Rules / Notes

- For use with 910-915 only, not applicable for 916 & 917.
 Default legend marking is START-STOP unless otherwise specified.
 If legend for marking contains SP (STOP) or OF (OFF), suffix S153 is NOT required. Lockout will be added. (Lockout not available in double pushbutton and with S111).
- 4 S769 only available on a single pushbutton assembly or one button of a 2-Button
- 5 XFMR option not available on DSD973 through DSD977.
- © C1B is default key housing. IF S847 option is selected and no key housing has been selected then the customer would get C1B by default.
- 1, 2, & 3-pole snap switches are marked ON-OFF, 3 & 4-way snap switches have blank stamping boxes, motor starting switches are marked START-STOP. No alternate markings are permitted.
- 1 "X" includes gasketing and o-rings on assembly to provide a CL.I, Div.2, Group B,C,D, CL.II, DIV.1 Group E,F,G, NEMA 4X/IP66 corrosion-resistant rating for aluminum (suffix SA required).
 - Valid only for front operated pushbuttons, front operated snap switches, selector switches, pilot lights, selector switch & pilot lights.

Single gang cover assemblies (step 1: select assembly)

	ang cover assembles (step 1. select assembly)
	rated motor starting switch covers and devices (NEMA 4X not available)
910	Front operated Allen-Bradley 1-pole switch, 1HP, 115-230 VAC
911	Front operated Allen-Bradley 2-pole switch, 1HP, 115-230 VAC
912	Front operated GE 1-pole switch, 1HP, 115-230 VAC
913	Front operated GE 2-pole switch, 1HP, 115-230 VAC
914	Front operated Westinghouse 1-pole switch, 1HP, 115-230 VAC
915	Front operated Westinghouse 2-pole switch, 1HP, 115-230 VAC
916	Front operated Square-D 2-pole switch, 2HP @ 250 VAC (30A), 3HP @ 600 VAC (20A)
917	Front operated GE 3-pole switch, 7.5HP @ 250 VAC (30A), 15HP @ 600 VAC (20A)
Front oper	rated pushbutton covers and devices
918	One button, one universal switch
919	One button, two universal switches
920	One button, two universal switches, one N.O., One N.C.
921	Two button, two universal switches
922	Two button, two universal switches, one N.O., One N.C. 2
962	Three button, (one double button and one single button), single button on bottom,
902	lock out available only on single button
970	Momentary contact mushroom head (N111 style) and one button (breaks N.C.)
Front oper	rated snap switch covers and devices
933	1-pole, 20A, 120/277 VAC
934	2-pole, 20A, 120/277 VAC
935	3-pole, 16A, 125V; 10A, 250 VAC (NEMA 4X not available)
936	Three way, 20A, 120/277 VAC
937	Four Way, 20A, 120/277 VAC
939	1-pole, 30A, 120/277 VAC
940	2-pole, 30A, 120/277 VAC
941	Three way, 30A, 120/277 VAC
943	3-pole, 30A, 600 VAC
Front oper	rated selector switch covers and devices
923	Two position, two circuit
924	Two position, four circuit
925	Three position, two circuit (N.O., Open, N.C.)
926	Three position, four circuit (N.O., Open, N.C.)
927	Three position, four circuit (A1 = N.C., N.O., N.O.; B1 = N.O., N.O., N.C.)
Pilot light	covers and devices
947	Two pilot lights (not available with a transformer)
948	One pilot light
Combinati	on pushbutton and pilot lights
958	One pilot light and one pushbutton station
961	Double pushbutton w/pilot light (with a transformer - see table), lock out not available
Combinati	on selector switches and pilot light covers and devices §
973	One light & two position switch, two circuit
974	One light & two position switch , four circuit

One light & three position switch, two circuit (N.O., Open, N.C.)

One light & three position switch, four circuit (N.O., Open, N.C.)

One light & three position switch, four circuit (A1 = N.C., N.O., N.O.; B1 = N.O., N.O.,

^{*} If existing back box is iron and is used with new X series cover, it is NEMA 4 rated. To achieve NEMA 4X rating, the back box and the cover must be aluminum. Questions, please contact your local sales rep or Eaton's customer service.

<u>\$634</u>

SA

Options for motor starting switches

Step 2: select heaters	s (see page 8 for complete table) ①	
G2 through G42	GE heaters	
P1 through P39	Allen Bradley heaters	
W1 through W39	Westinghouse heaters	
0	Without heater	
Step 3: select factory	sealed cover if needed 1	
S701	Factory sealing cover (motor control) for use with manual motor starters	
Step 4: select material option		
Step 5: select legend marking (see page 12)		

Options for front operated pushbuttons

Step 2: select operator function option						
S111	Momentary stop, front operated, red mushroom-head button (breaks N.C. contacts only)					
S153	Lockout on front operated pushbutton (locks normally closed contacts in open position) $\ensuremath{ \ }$					
S769	Maintained contact, front-operated, mushroom-head button with lockout & guard (breaks N.C. Contacts and maintains N.O. Contacts)					
Step 3: select ma	aterial option					
Step 4: select legend plate option						
Blank	Standard or no legend plate					
Step 5: select legend marking (see page 12)						

Options for pilot lights

Step 2: sele	Step 2: select color							
J1	Red jewel							
J3	Green jewel							
J6	Amber jewel							
J10	Clear jewel							
J11	Blue jewel							
Step 3: sele	ect lamp style							
Blank	Standard incandescent lamp							
LED	Led lamp furnished in place of standard incandescent lamp							
Step 4: sele	ect voltage 9							
S300	24V lamp (AC&DC) (not available with XFMR)							
T2	240/120 volt XFMR							
T4	480/120 volt XFMR							
T5	600/120 volt XFMR							
Step 5: select material options								
Step 6: sele	Step 6: select legend plate option							
Blank	Standard or no legend plate							
Step 7: sele	ect legend markings (see page 12)							
	·							

Options for front-operated snap switches

Step 2: select factory sealed cover if needed						
S697	For factory sealing covers (for use w/ 20 & 30 A front operated snap switches only, not available on DSD935) suffix required for "X" (gasketed, NEMA 4X 3/1P66) configuration					
Step 3: selec	Step 3: select material options					
Step 4: select legend marking (see page 12)						

Options for front-operated selector switches

Step 2: select	t operator function options					
S634	3 Position selector switch w/momentary contact clockwise operation, spring return to center, maintained contact counter clockwise operation					
S635	3 Position selector switch w/momentary contact counter clockwise operation, spring return to center, maintained contact clockwise operation					
S842	3 Position selector switch w/momentary contact left and right, spring return to center $$					
S847	Key operated selector switch - must define position where key is removed from (limited to NEMA 4)					
Step 3: select	t removable key location (only if S847 is selected)					
K1	Selector switch key is removable from all positions					
K2	Selector switch key is removable from left position for 2 position switches or from center position for 3 position switches					
КЗ	Selector switch key is removable from right position for 2 position switches or from left position for 3 position switches					
K4	Selector switch key is removable from right position for 3 position switches					
Step 4: select	t key lock housing (only if S847 is selected)					
C19B	Key lock housing C19B					
C1B / Blank	Key lock housing C1B 6					
C2B	Key lock housing C2B					
СЗВ	Key lock housing C3B					
C4B	Key lock housing C4B					
C5B	Key lock housing C5B					
C6B-18B	Key lock housing C6B-C18B					
C20B-C152B	Key lock housing C20B-C152B					
Step 5: select	t material options					
Step 6: select	t legend plate option					
Blank	Standard or no legend plate					

Options for Selector switches and pilot light devices

options to colocte estatement and prioring actions
Step 2: select option from pilot light options
Step 3: select option from selector switches option
Step 4: select material options
Step 5: select legend marking (see page 12)
·

Material and finish options

Select enclosure options							
Blank	Iron cover (feraloy) with zinc & aluminum paint						
SA	Aluminum cover - suffix required for "X" (gasketed, NEMA 4X /IP66) configuration						
S752 Exterior gray epoxy powder coat finish (not required for NEMA 4X corrosion resistance)							

Legend marking options

See instructions and standard marking abbreviations on page 10 and catalog rules/notes ${\bf 2}$ ${\bf 3}$

Legend marking plates for pushbuttons, selector switches, and pilot lights

Marking req.	Cat. # suffix add	Standard pushbutton color	Actual marking on product	Marking req.	Cat. # suffix add	Standard pushbutton color	Actual marking on product
Acknowledge	AK	Black	ACK	Normal	NR	Green	NORMAL
Alarm	AM	Red	ALARM	Off	OF	Black	OFF
Automatic	AU	Black	AUT0	On	ON	Green	ON
By-Pass	BP	Black	BYPASS	Open	OP	Green	OPEN
Call	CA	Black	CALL	Out	OT	Black	OUT
Close	CL	Black	CLOSE	Purge	PG	Black	PURGE
Down	DN	Black	DOWN	Raise	RA	Green	RAISE
Emergency	EM	Red	EMER	Remote	RM	Black	REMOTE
EM-Stop	EM-SP	Red	EMER-STOP	Reset	RS	Black	RESET
Fast	FS	Green	FAST	Reverse	RV	Black	REV
Forward	FW	Black	FWD	Run	RN	Black	RUN
Hand	HN	Black	HAND	Safe	SF	Green	SAFE
High	HI	Black	HIGH	Silence	SN	Black	SILENC
ln .	IN	Green	IN	Slow	SL	Green	SLOW
Jog	JG	Black	JOG	Start	ST	Green	START
Lighting On	LN	Green	LTG-ON	Stop	SP	Red	STOP
Local	LC	Black	LOCAL	Test	TT	Black	TEST
Lower	LO	Black	LOWER	Trip	TP	Black	TRIP
Maintain	MT	Black	MAINT	Up	UP	Green	UP
Manual	MN	Black	MANUAL				

Non-standard legend plate markings (not included in this table) can be accommodated by our Engineer-To-Order team. Non-standard markings must be included in catalog number exactly as desired on legend plates. There is a 10-character limit per marking.

Common DSD/DSDX catalog numbers

Туре	Description		Cat. #
Front operated pushbuttons	Two button, two universal switches, one N.O., one N.C.		DSDX922 SA
Front operated pushbuttons	One button, one universal switch		DSDX918 SA
Front operated pushbuttons	Two button, two universal switches		DSDX921 SA
Front operated pushbuttons	Momentary contact mushroom head (S111 style) and one button (breaks N.C.)		DSDX970 SA
Pilot lights	Two pilot lights (not available with a transformer)		DSDX947 J1 J3 SA
Pilot lights	One pilot light		DSDX948 J1 SA
Pushbuttons and pilot lights	One pilot light and one pushbutton station		DSDX958 J1 SA
Pushbuttons and pilot lights	Double pushbutton w/pilot light (with a transformer - see table), lockout not available		DSDX961 J3 SA
Selector switches	Three position, two circuit (N.O., Open, N.C.)		DSDX925 SA
Selector switches	Three position, four circuit (A1 = N.C., N.O., N.O., B1 = N.O., N.O., N.C.)		DSDX927 SA
Selector switches	Two position, two circuit		DSDX923 SA
Snap switches	1-pole, 20 amp		DSDX933 S697 SA
Snap switches	2-pole, 20 amp		DSDX934 S697 SA
Snap switches	3-pole, 30 amp		DSDX943 S697 SA
Motor starter switch*	Front operated Allen-Bradley 1-pole switch, 1HP, 115-230 VAC		DSD910 0 S701 SA
Motor starter switch*	Front operated Westinghouse 1-pole switch, 1HP, 115-230 VAC		DSD914 0 S701 SA
Motor starter switch*	Front operated Westinghouse 2-pole switch, 1HP, 115-230 VAC		DSD915 0 S701 SA
	Back boxes	Cat. # - dead end	Cat. # - through feed
Back box	1/2" Single gang back box	EDS171 SA	EDSC171 SA
Back box	3/4" Single gang back box	EDS271 SA	EDSC271 SA
Back box	1" Single gang back box	EDS371 SA	EDSC371 SA
Back box	1/2" Double gang back box	EDS172 SA	EDSC172 SA
Back box	3/4" Double gang back box	EDS272 SA	EDSC272 SA
Back box	1" Double gang back box	EDS372 SA	EDSC372 SA

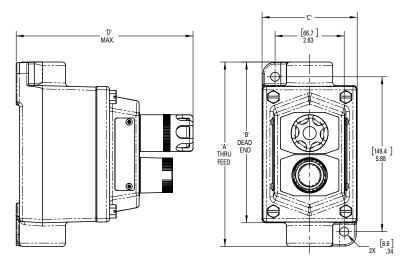
Catalog Rules / Notes

2 Default legend marking is START-STOP unless otherwise specified.

^{*} NEMA 4X option not available.

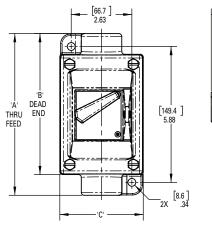
Dimensions

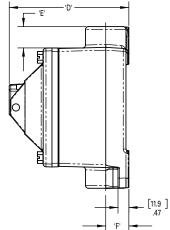
EDS/EDSX fully assembled control stations



Control station type	Hub size	Α	В	С	D max.
EDS/EDSX single gang	1/2"	6.78	6.03	3.50	7.38
EDS/EDSX dual gang	1/2"	6.78	6.03	7.19	7.38
EDS/EDSX single gang	3/4"	6.78	6.03	3.50	7.38
EDS/EDSX dual gang	3/4"	6.78	6.03	7.19	7.38
EDS/EDSX single gang	1"	7.03	6.16	3.50	7.38
EDS/EDSX dual gang	1"	7.03	6.16	7.19	7.38

EDS/EDSX snap switches

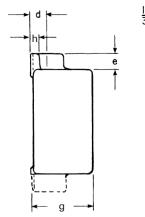


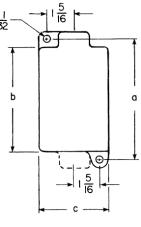


Enclosure Type	Hub Size	Α	В	С	D Max.*	E	F
EDS/EDSX single gang, factory sealed	1/2"	6.78	6 03	3.50	5.25	0.81	0.75
EDS/EDSX dual gang, factory sealed	1/2" 6.78 6.03		0.03	7.19	5.25	0.61	0.75
EDS/EDSX single gang, factory sealed	3/4"	0.70 0.0	C 02	3.50	5.25	0.01	0.88
EDS/EDSX dual gang, factory sealed	3/4	6.78 6.03		7.19	5.25	0.81	0.88
EDS/EDSX single gang, factory sealed	1"	7.00	6.16	3.50	5.25	0.94	1.00
EDS/EDSX dual gang, factory sealed		7.03	7.03 0.10	7.19	5.25	0.94	1.00

^{*}EDS snap switches with number *23* operator are not factory sealed. Dimension D for these devices = 5.00

Back Boxes





Control station type	а	b	C	d e	g	h
EDS single gang	5.88	5.09	3.50	see below	3.06	0.47
EDS dual gang	5.88	5.09	7.19	see below	3.06	0.47

	Hub size	d	е
	1/2"	0.75	0.81
	3/4"	0.88	0.81
ĺ	1"	1.00	0.94

Notes

Notes

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