

EDS / EFS Series Control Stations

Fully Assembled EFS and EDS Factory Sealed Devices

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

Applications:

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 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 sealed devices have many distinct advantages:

- Reduce installation problems
- Eliminate external seals
- Lower installation costs
- Improve safety
- Are used with general purpose snap and pushbutton type switches
- Standard neoprene covers for front operated pushbuttons. Prevents accumulation of dirt and entrance of water around operating shafts
- Mounting lugs and taper tapped hubs with integral bushings
- Large machine screws for fastening covers to bodies
- 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 rocker type operation
- Close tolerances in machining of wide, mating flanges and journalled shafts and bearings for front button operation, produces flamtightness of enclosure joints
- On enclosures with front lever and side rocker type operating handles, threaded type shafts and bushings are used to ensure flamtightness
- Dead end (EFS or EDS) or through feed (EFSC or 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.

Certifications and Compliances:

- 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, 7B*CD, 9EFG
- UL Standard: 1203
- CSA Standard: C22.2 No. 30

Standard Materials:

- Bodies – *Feraloy*® iron alloy; copper-free aluminum
- Front operated pushbutton and pilot light covers – *Feraloy* iron alloy
- Side operated type pushbutton covers – copper-free aluminum
- Shafts – stainless steel
- Shaft bushings – stainless steel
- Rocker handle and pushbutton guards – type 6 / 6 nylon
- Sealing enclosures – copper-free aluminum

Standard Finishes:

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

Options:

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

Description	Suffix
Emergency "Stop" button (momentary) – front operated red mushroom button.....	S111
Lockout provision on front operated pushbutton cover (standard on buttons marked "OFF" and "STOP").....	S153
For 24 VDC operation on pilot lights	S300
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
Bodies and covers (single and two gang units) – copper-free aluminum.....	SA
Where indicated in the catalog listings, EDS units suitable for Class I, Division 1, Group B usage can be supplied, add suffix -GB, EFS units are suitable for Class I, Division 1, Group B as standard.....	GB
Maintained contact mushroom head with lockout and guard. May not be combined with a pilot light if a transformer is required. (Push to stop only)	S769
Spring return to center from right and left	S842

EDS bodies and factory sealed cover and device sub-assemblies are available for field assembly (see page 521).

*See suffix GB in Options section

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**Fully Assembled EDS Factory Sealed
General Use Snap Switches**

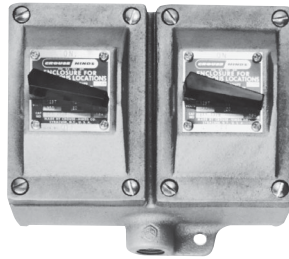
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EDSC2129



EDS2229

Dimensions
see page 526

Ordering Information - General Use Snap Switch – Front Operated

Hub Size	Style†	Amperes		Single Gang		Two Gang‡		Factory Sealed Replacement Switch
		120VAC§	277VAC§	Dead End Cat. #	Through Feed Cat. #	Dead End Cat. #	Through Feed Cat. #	
3/4	1-pole	20	20	EDS2129	EDSC2129†	EDS2229	EDSC2229†	SW5
3/4	2-pole	20	20	EDS218	EDSC218†		EDSC228†	SW6
3/4	3-way	20	20	EDS2130	EDSC2130	EDS2230	EDSC2230	SW7
3/4	4-way	20	20	EDS2140	EDSC2140		EDSC2240	SW8
1	1-pole	20	20	EDS3129	EDSC3129†	EDS3229	EDSC3229†	SW5
1	2-pole	20	20	EDS318	EDSC318†	EDS328	EDSC328†	SW6
1	3-way	20	20	EDS3130	EDSC3130	EDS3230	EDSC3230	SW7
1	4-way	20	20	EDS3140	EDSC3140	EDS3240	EDSC3240	SW8

*Standard as Class I, Division 2, Group B. No seals required. For Class I, Division 1, Group B: All units on this page can be modified for Class I, Division 1, Group B usage. Add suffix GB to the Cat. No. Seals must be installed within 1 1/2" of each conduit opening in Division 1.

† ON-OFF standard marking for 1-pole and 2-pole units.

‡ Combinations of switches can be furnished.

§ AC rated switches are tested for resistive, inductive and tungsten filament loads up to the full current rating and for motor loads up to 80% of the ampere rating.

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