EDS Factory Sealed Pushbutton Stations

Front Operated, 600VAC Heavy Duty, Dimensions Pg. 430

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



EDS2184



EDS2190

Single Gang

Normal Pos.	1 Circuit Universal	2 Circuits Universal	2 Circuits**
Marking†	Specify	Specify	START-STOP unless otherwise specified
Diagram			
Replacement Pushbuttons‡	ED11	ED12	ED12**

Enclosure with Pushbuttons

Hub Size	**Dead End Cat. #**	**Cat. #**	**Cat. #**
½	EDS1184		EDS115
¾	EDS2184	EDS2190	EDS215
1	EDS3184	EDS3190	EDS315
	Through Feed		
½	EDSC1184	EDSC1190	EDSC115
¾	EDSC2184	EDSC2190	EDSC215
1	EDSC3184	EDSC3190	EDSC315

Normal Pos.	2 Circuits Universal	2 Circuits**
Marking†	Specify	Specify
Diagram		
Replacement Pushbuttons‡	ED12	ED12**

Enclosure with Pushbuttons

Hub Size	**Dead End Cat. #§**	**Cat. #§**
½		EDS1155
¾	EDS2192	EDS2155
1	EDS3192	EDS3155
	Through Feed	
½	EDSC1192	EDSC1155
¾	EDSC2192	EDSC2155
1	EDSC3192	EDSC3155

* **Class I, Group B:** Consider using EFS series pushbuttons, see page 433. All enclosures listed above can be modified for Class I, Group B, Div. 1 usage. Add suffix GB to the Cat. No. Seals must be installed within 1½″ of each conduit opening in Division 1. These products are suitable for Group B, Div. 2 as listed, without external seals. In Canada, for Group B applications consult factory.

** Two universal contact blocks, must be wired as two circuits, with one normally open and one normally closed.

§ Single external button operates both inner buttons simultaneously.

† Standard markings available are as follows:

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

‡ For replacement contact blocks, see page 400.

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5C EFS and EDS Factory Sealed Control Devices and Manual Motor Starting Switches

Dimensions Pg. 430

Cl. I, Div. 1 & 2, Groups B*,C,D Explosionproof
Cl. II, Div. 1, Groups E,F,G Dust-Ignitionproof
Cl. II, Div. 2, Groups F,G Raintight
Cl. III Wet Locations
NEMA 3,7B*CD,9EFG

Application:

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 push button (marked ''STOP'' and ''OFF'') and selector switch covers
- lockout hole for padlock having ¼″ 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 flametightness of enclosure joints
- on enclosures with front lever and side rocker type operating handles, threaded type shafts and bushings are used to ensure flametightness
- dead end (EFS or EDS) or through feed (EFSC or EDSC) hubs – ½″ to 1″ sizes

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

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: 894, 698
- CSA Standard: C22.2 No. 30

Options:

The following special options are available from the factory by adding suffix to Cat. No.

Description	Suffix to be Added to Cat. #
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. Maximum one per cover and cannot be used with a pilot light with a transformer or another standard pushbutton	S769

EDS bodies and factory sealed cover and device sub-assemblies are available for field assembly (see pages 394 to 396).



Suffix S769

* See Options: suffix GB

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