

ECS Selector Switch Control Stations

Explosionproof, Dust-Ignitionproof, Factory Sealed and Non-Factory Sealed

CEC:

Class I, Division 1 and 2, Groups B, C, D

Class II, Division 1 and 2, Groups E, F, G

Class III

CSA Type 3R, 7BCD, 9EFG

Applications

- Push buttons and selector switches are used in conjunction with contactors and magnetic starters for remote control of motors. They provide circuit control and selection.
- Pilot lights provide visual indication that an electrical circuit is engaged either at a remote or local location.
- Toggle switches are used to connect or disconnect electrical operating lighting or other low power loads.

Features

- Corrosion resistant captive stainless steel hex head bolts hold cover to body.
- Dozens of possible combinations of push buttons, selector switches and pilot lights. Contact your local sales representative for combinations not found in the catalog.
- Push buttons supplied standard with neoprene weather boot.
- Clearly marked terminals with brass screws assure quick, easy wiring.
- Push buttons and selector switches employ heavy duty, 10 Amp 600 Vac rated contact blocks.
- Push button and selector switch contacts are silver cadmium oxide assuring long trouble free operation.
- Pilot Lights are supplied with jewel guard and 120 Vac lamp.
- Factory sealed push buttons are supplied with lockout type guards. Hole in guard locks with up to 1/4" hasp. Permits locking of push button to prevent unauthorized operation.
- Factory sealed control stations confine the arcing to the devices within the enclosure. Eliminates the need for adding external sealing fittings at each conduit entry. (Non-factory sealed devices available, contact your local sales representative.)
- Smooth rounded integral bushing in hub protects conductor insulation.
- Accurately tapped, tapered hubs for tight, rigid joints and ground continuity.
- Temperature rating: T6

Standard Materials

- Cover: aluminum alloy
- Body: cast copperfree (4/10 of 1% max.) aluminum
- Push buttons: aluminum upper barrel and phelonic lower barrel
- Dust cap models: neoprene buttons
- Pilot light guard and body assembly: aluminum and tempered glass jewel
- Clamping ring: steel
- Selector switch: aluminum operator mechanism and nylon cam

Standard Finishes

- Body and cover: baked epoxy paint
- Operators: natural finish

Options

- LED pilot light available. Substitute **J** in catalog number with **L**.
- Three position selector switches with modified operation.
 - Momentary contact right position, spring return to center, maintained contact left position with Hand/Off/Auto legend plate. Add suffix —**S634**.
 - Momentary contact left position, spring return to center, maintained contact right position with Auto/Off/Hand legend plate. Add suffix —**S635**.
- Selector switch lockout for factory sealed units locks two or three position handle in any position. Add suffix —**S349**.



1-Gang — Start and Stop



2-Gang — GFCI and Receptacle

- Pilot light jewel/guard assembly, order by suffixes:
 - Red —**JR**
 - Amber —**JA**
 - Blue —**JB**
 - Clear —**JC**
 - Green —**JG**
 - Opal —**JO**
- For colored LED jewel/guard assembly, order by suffixes:
 - Red —**LR**
 - Amber —**LA**
 - Blue —**LB**
 - Clear —**LC**
 - Green —**LG**
 - Opal —**LO**
- Securing rod for push button factory sealed units. Add suffix —**S153**.
- CSA Type 4X enclosure and cover. Add suffix —**4X**.

CEC Certifications and Compliances

- CSA Standards: CSA C22.2 No. 25, CSA C22.2 No. 30, CSA C22.2 No. 14-M
- CSA Certified: 038339, 036848

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Toggle Switches ① — No Motor Ratings

		Hub Size (Inches)	Type	Catalog Number	
				Front Operated	Key Operated
1-Gang — 20 Amp, 120 to 277 Vac ②					
Factory Sealed Devices					
	1/2 – 3/4	1-Pole	ECS3F1	ECS3K1	
	1	1-Pole	ECS5F1	ECS5K1	
	1/2 – 3/4	2-Pole	ECS3F2	ECS3K2	
	1	2-Pole	ECS5F2	ECS5K2	
	1/2 – 3/4	3 Way	ECS3F3W	ECS3K3W	
	1	3 Way	ECS5F3W	ECS5K3W	
Non-Factory Sealed Devices					
	1/2 – 3/4	4 Way	ECS3F4W	ECS3K4W	
	1	4 Way	ECS5F4W	ECS5K4W	
2-Gang — 20 Amp, 120 to 277 Vac ②					
Factory Sealed Devices					
	1/2 – 3/4	1-Pole	ECS7F1	ECS7K1	
	1	1-Pole	ECS9F1	ECS9K1	
	1/2 – 3/4	2-Pole	ECS7F2	ECS7K2	
	1	2-Pole	ECS9F2	ECS9K2	
	1/2 – 3/4	3 Way	ECS7F3W	ECS7K3W	
	1	3 Way	ECS9F3W	ECS9K3W	
Non-Factory Sealed Devices					
	1/2 – 3/4	4 Way	ECS7F4W	ECS7K4W	
	1	4 Way	ECS9F4W	ECS9K4W	
1-Gang — 20 Amp, 347 Vac — Non-Factory Sealed Devices					
	1/2 – 3/4	1-Pole	ECS2F17	ECS2K17	
	1	1-Pole	ECS4F17	ECS4K17	
	1/2 – 3/4	2-Pole	ECS2F27	ECS2K27	
	1	2-Pole	ECS4F27	ECS4K27	
	1/2 – 3/4	3 Way	ECS2F3W7	ECS2K3W7	
	1	3 Way	ECS4F3W7	ECS4K3W7	
	1/2 – 3/4	4 Way	ECS2F4W7	ECS2K4W7	
	1	4 Way	ECS4F4W7	ECS4K4W7	
1-Gang — 30 Amp, 120 to 277 Vac — Non-Factory Sealed Devices					
	1/2 – 3/4	1-Pole	ECS2F13	ECS2K13	
	1	1-Pole	ECS4F13	ECS4K13	
	1/2 – 3/4	2-Pole	ECS2F23	ECS2K23	
	1	2-Pole	ECS4F23	ECS4K23	
	1/2 – 3/4	3 Way	ECS2F3W3	ECS2K3W3	
	1	3 Way	ECS4F3W3	ECS4K3W3	
	1/2 – 3/4	3-Pole	ECS2F33	ECS2K33	
	1	3-Pole	ECS4F33	ECS4K33	

① Optional flush mounted single LED indicator light - add suffix **-LED**.

② 20 and 30 Amp general use switches may be used to control a motor rated 1 HP @ 120 Vac or 2 HP @ 240 Vac per CEC C22.1-18, Section 28-500 3(b).

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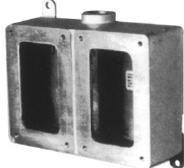
CONTROLS: NEC/CEC EXPLOSIONPROOF CONTROL STATIONS AND SWITCHES

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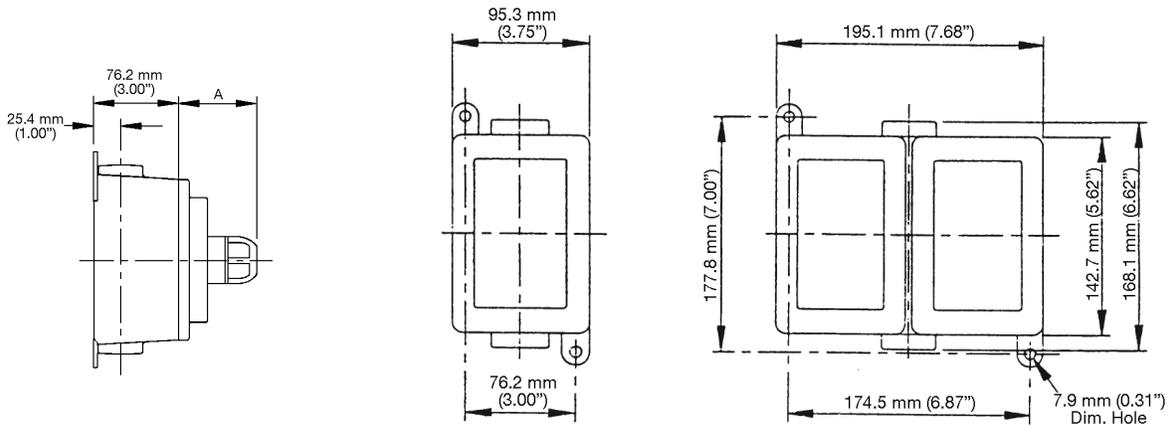
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Hub Size (Inches)	Description	Catalog Number	
ECS Series Mounting Boxes			
CSA Certified when complete with ECKS cover assembly. Boxes and covers sold separately. Boxes are complete with feed-thru hubs, mounting feet, ground screw and close-up plug for dead-end use. For 1/2" entry on ECS-172 and ECS-275 reducer required.			
	3/4	1-Gang	ECS175
	1	1-Gang	ECS110
	3/4	2-Gang	ECS275
	1	2-Gang	ECS210

Description	Catalog Number
ECS Replacement Covers	
 Blank Cover	ECKSB
 1 Device Cover	ECKS1B
 2 Device Cover	ECKS2B
 Dual Push button/Selector Switch Cover	ECKS2P
 Pilot Light and Dual Push button/Selector Switch Cover	ECKS3P

Dimensions in Millimeters (Inches)



Device	A — Dimensions in Millimeters (Inches)
Push Button Switch	45.0 (1.81)
Selector Switch	57.2 (2.25)
Pilot Light	69.9 (2.75)
Mushroom Head Switch	56.4 (2.18)
Snap Switch	39.6 (1.56)
GFI	41.1 (1.62)
Photocontrol	53.8 (2.12)

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