

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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APPLETON™

CONTROLS: NEC/CEC EXPLOSIONPROOF CONTROL STATIONS AND SWITCHES

Potentiometer ① — 1-Gang — Non-Factory Sealed Devices



Hub Size (Inches)	Resistance	Catalog Number
1/2 – 3/4	2500 Ohms	ECS2P0T25K
1	2500 Ohms	ECS4P0T25K
1/2 – 3/4	5000 Ohms	ECS2P0T5K
1	5000 Ohms	ECS4P0T5K
1/2 – 3/4	10000 Ohms	ECS2P0T10K
1	10000 Ohms	ECS4P0T10K

Photocontrol — 1-Gang — Non-Factory Sealed and Non Group B Devices



Hub Size (Inches)	Electrical Rating	Catalog Number
1/2 – 3/4	120 Vac, 1000 VA	ECS2PC120
1	120 Vac, 1000 VA	ECS4PC120
1/2 – 3/4	347 Vac, 1000 VA	ECS2PC347
1	347 Vac, 1000 VA	ECS4PC347

Manual Motor Starters ② — 1-Gang — Non-Factory Sealed Devices



Hub Size (Inches)	Type	Starter Rating	Catalog Number
1/2 – 3/4	1-Pole, Single Phase	1 HP 120/240 Vac	ECS21MSH ③
1	1-Pole, Single Phase	1 HP 120/240 Vac	ECS41MSH ③
1/2 – 3/4	2-Pole, Single Phase	1 HP 120/240 Vac	ECS22MSH ③
1	2-Pole, Single Phase	1 HP 120/240 Vac	ECS42MSH ③
1/2 – 3/4	2-Pole, Single Phase	30 Amp 250 Vac	ECS22MS ④
1	2-Pole, Single Phase	30 Amp 600 Vac 2 HP 120 Vac 3 HP 240 Vac 7.5 HP 480 Vac 10 HP 600 Vac	ECS42MS ④
1/2 – 3/4	3-Pole, Three Phase	30 Amp 250 Vac	ECS23MS ④
1	3-Pole, Three Phase	30 Amp 600 Vac 3 HP 120 Vac 7.5 HP 240 Vac 10 HP 480 Vac 20 HP 600 Vac	ECS43MS ④

① Potentiometers are not CSA Certified

② Suitable for use as a motor disconnect.

③ Heater supplied for maximum motor load.

④ No heater available.

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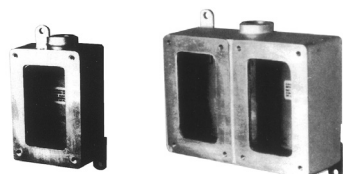
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Hub Size (Inches)	Description	Catalog Number
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ECS Series Mounting Boxes

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
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ECS Replacement Covers



ECKSB



ECKS1B



ECKS2B

Blank Cover

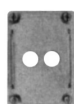
ECKSB

1 Device Cover

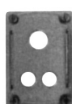
ECKS1B

2 Device Cover

ECKS2B



ECKS2P



ECKS3P

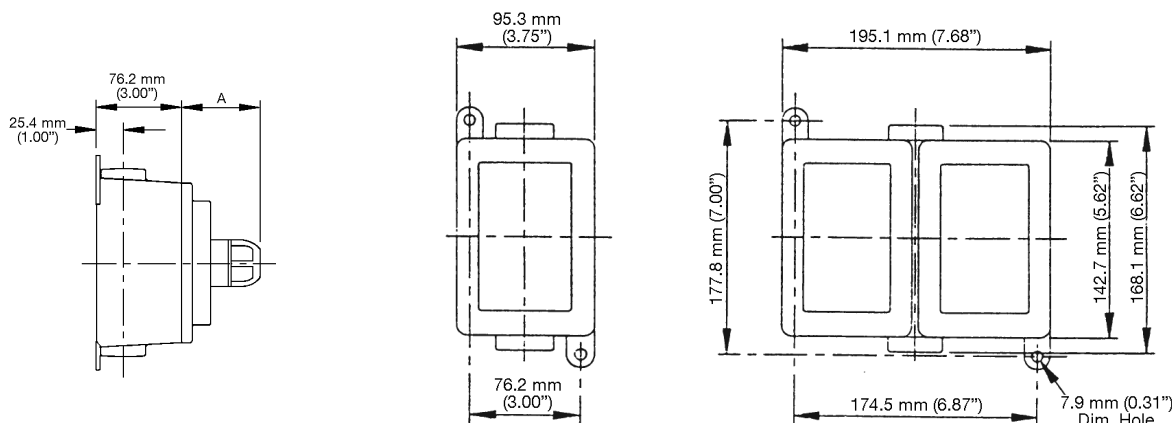
Dual Push button/Selector Switch Cover

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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