

Contender™ 4/4X Series Factory Sealed Control Stations

NEC/CEC:

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

NEC/CEC:

Type 3, 3R, 4*, 4X*, 12
IP66 ^

Applications

- For use in washdown and other damp, wet and highly corrosive or dusty areas where ignitable vapors, gases or highly combustible dusts are abnormally present.
- Push buttons and selector switches are used in conjunction with contactors or magnetic starters for remote control of motors.
- Pilot lights provide visual assurance that an electrical function is being performed at a remote or local hazardous location.

Features

- Covers are UL Classified for use with Crouse-Hinds+ EDS series back boxes.
- Corrosion resistant captive stainless steel screws holds cover to back box.
- Silicone cover gasket ensures high degree of water and dust ingress protection.
- The Labyrinth switch used in push buttons and selector switches, is rated A600 heavy pilot duty and P150.
- Temperature rating: -25 °C to +40 °C (-13 °F to -104 °F).
- Wide variety of devices and options results in a control station tailor-made to the application.
- Improved pilot light features enhanced circuitry to prevent induced voltage.
- Pilot light employs LED cluster with lifetime of 100,000 hours that can be used at either 120 Vac or 240 Vac. Optional pilot light can be used at either 12 or 24 Vac/Vdc.
- Back Box furnished with internal ground screw.
- Factory sealed, no external seals required.
- Selector switch knob and momentary push button guard accepts 1/4" padlocks to prevent unauthorized startup or turnoff.

Standard Materials

- Back box: malleable iron or optional copperfree (4/10 of 1% max.) aluminum
- Cover: die-cast aluminum
- Screws: stainless steel
- Gasket: silicone
- O-Rings: buna n

Standard Finishes

- Malleable iron back box: triple coat—(1) zinc electroplate, (2) chromate, and (3) epoxy powder coat
- Cover and optional aluminum back box: epoxy powder coat

Options

- 1- or 2-gang aluminum back box for Type 4X rating, add suffix **-A**.
- UCPL pilot light. Standard color is red. Order by suffixes if color desired is other than red, as follows:
 - Green **-JGBG**
 - Amber **-JGBA**
 - Blue **-JGBB**
 - White **-JGBW**
- For 12 or 24 Vac/Vdc pilot light rating, add suffix **-DC**
- Standard momentary push button colors are listed next to catalog numbers for assembled control stations. Order by suffixes for desired color as follows:
 - Red **-PBRE**
 - Green **-PBGR**
 - Black **-PBBL**

▼ Product with iron back box is Type 4 rated and Type 4X with aluminum back box.

▲ When a pilot light is selected, assembly is rated IP56.

+ Crouse-Hinds is a registered trademark of Cooper Crouse-Hinds.



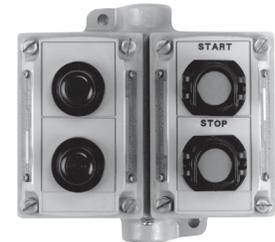
1-Gang Push Button and Pilot Light



1-Gang HOA Selector Switch



1-Gang Emergency Stop Push Button



2-Gang Push Buttons and Pilot Lights

- Push button front operated mushroom head (maintained contact). Standard color is red. Order by suffixes if color desired is other than red, as follows:
 - Green **-NMRBMGR**
 - Black **-NMRBMBL**
- Push button front operated mushroom head (momentary contact). Order by suffixes if color desired is other than black, as follows:
 - Red **-NMRBRE**
 - Green **-NMRBGR**
 - Black **-NMRBBL**
- Three position selector switches with modified operation:
 - Momentary contact right position, spring return to center, maintained contact left position add suffix **-SRC**.
 - Momentary contact left position, spring return to center, maintained contact right position add suffix **-SLC**.
 - Momentary contact left and right positions, spring return to center with alternate contacts add suffix **-SRLALT**.
 - Alternate contacts add suffix **-ALT**.

NEC/CEC Certifications and Compliances

- UL Standards: UL 508, UL 698, UL 1203, UL 1604, ISA 12.12.01
- CSA Standards: C22.2 No. 14-M, C22.2 No. 213-M, C22.2 No. 25, C22.2 No. 30
- cULus Listed: E10449, E81751, E157407

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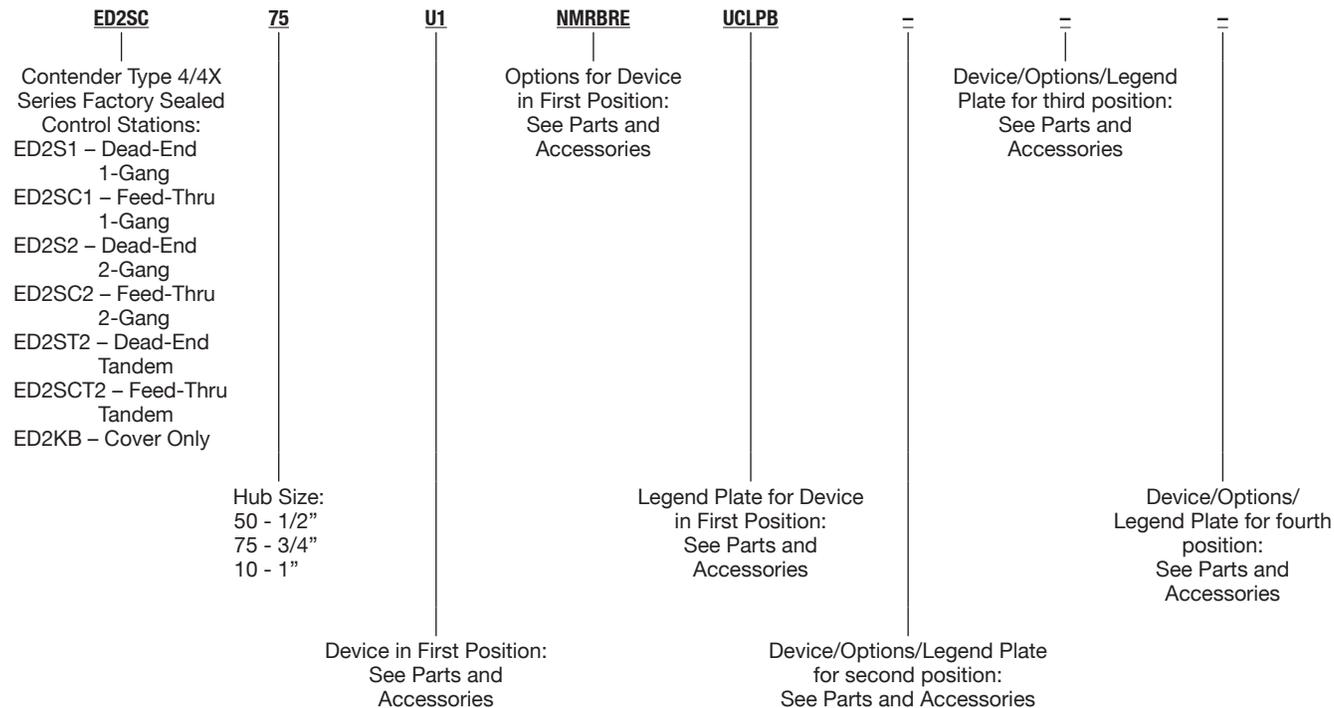
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Catalog Numbering Guide



APPLETON™

CONTROLS: NEC/CEC EXPLOSIONPROOF CONTROL STATIONS AND SWITCHES

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Devices		Device Legend Plates ①	
Device Descriptions	Suffix	Device Descriptions	Suffix
Momentary Push Button - 1NO/NC	U1	Two Position Selection Switch Legend Plates	
Momentary Push Button - 2NO/NC	UD1	Forward—Reverse	UCLP-FR
Maintained Push Button - 1 NO/NC	UM1	Hand—Auto	UCLP-HA
Maintained Push Button - 2 NO/NC	UDM1	Off—Auto	UCLP-0A
Pilot Light	J1	On—Off	UCLP-00
2-POS 2-CKT Selector Switch	12	Start—Stop	UCLP-SS
3-POS 2-CKT Selector Switch	102	Blank	UCLP-B
2-POS 4-CKT Selector Switch	35	Three Position Selection Switch Legend Plates	
3-POS 4-CKT Selector Switch	345	Jog—Off—Auto	UCLP-J0A
Close-up Plug	PLG	Forward—Off—Reverse	UCLP-F0R
Options		Hand—Off—Auto	UCLP-H0A
Options Descriptions		Run—Off—Jog	UCLP-R0J
Suffix		Blank	UCLP-B
Amber Pilot Light	JGBA	Pilot Light Legend Plates	
Green Pilot Light	JGBG	Blank	UCPLP-B
Blue Pilot Light	JGBB	Run	UCPLP-RUN
White Pilot Light	JGBW	On	UCPLP-0N
12 or 24 Vac/Vdc Rated Pilot Light	DC	Off	UCPLP-0FF
Red Mushroom Head - Momentary Push Button	NMRBRE	Close	UCPLP-CL0SE
Green Mushroom Head - Momentary Push Button	NMRBGR	Push Button Legend Plates	
Black Mushroom Head - Momentary Push Button	NMRBBL	<i>(Momentary and Maintained)</i>	
Black Mushroom Head - Maintained Push Button	NMRBMBL	Blank	UCLP-B
Green Mushroom Head - Maintained Push Button	NMRBMGR	Off	UCLP-0FF
Spring Return from Right - 3-POS Selector Switch	SRC	On	UCLP-0N
Spring Return from Left - 3-POS Selector Switch	SLC	Forward	UCLP-FWD
Spring Return from Right and Left - Selector Switch (3-POS, 4-CKT and Alt Contacts Only)	SRLALT	Reverse	UCLP-REV
Alternate Contacts - Selector Switch (3-POS, 4-CKT Only)	ALT	Jog	UCLP-JOG
Red Momentary Push Button	PBRE	Run	UCLP-RUN
Green Momentary Push Button	PBGR	Start	UCLP-ST
Black Momentary Push Button	PBBL	Stop	UCLP-SP
Momentary Push Button Securing Rod	SR	Up	UCLP-UP
Mushroom Head Push Button Locking Guard	UCMPBLG	Down	UCLP-DOWN
Accessories		Fast	UCLP-FAST
Accessories Descriptions		Slow	UCLP-SLOW
Suffix		Raise	UCLP-RAISE
Close-Up Plug for 30mm Device Cover Opening	UCPLUG	Lower	UCLP-LOWER
Momentary Push Button Securing Rod	NBL-SR	Open	UCLP-OPEN
Momentary Push Button Guard	UCLG1	Close	UCLP-CLOSE
Mushroom Head Push Button Guard	UCMPBLG	Low	UCLP-LOW
Nameplate Mounting Bracket	NPBRKT-C0NT	High	UCLP-HIGH
		Test	UCLP-TEST
		Rest	UCLP-RESET
		Emergency Stop	UCLP-ESTP

① See legend plate section for more options. Custom legend plates are available. Contact your local sales representative for details.

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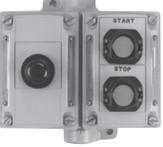
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2-Gang Push Buttons and Pilot Lights

	Hub Size (Inches)	Description	Diagram	Standard Legend Plate Marking and Device Color	Catalog Number	
					Dead-End	Feed-Thru
	1/2				ED2S250U1	ED2SC250U1
	3/4	2 Circuits Universal		Start/Green	ED2S275U1	ED2SC275U1
	1				ED2S210U1	ED2SC210U1
	1/2				ED2S250U2	ED2SC250U2
	3/4	4 Circuits Universal		Start/Green Stop/Red	ED2S275U2	ED2SC275U2
	1				ED2S210U2	ED2SC210U2
	1/2	2 Circuits Universal and 1 Pilot Light		Push Buttons: Start/Green Stop/Red Pilot Light: Blank/Red	ED2S250J1U2	ED2SC250J1U2
	3/4				ED2S275J1U2	ED2SC275J1U2
	1				ED2S210J1U2	ED2SC210J1U2
	1/2	2 Circuits Universal and 2 Pilot Lights		Push Buttons: Start/Green Stop/Red Pilot Light: Blank/Red	ED2S250J2U2	ED2SC250J2U2
	3/4				ED2S275J2U2	ED2SC275J2U2
	1				ED2S210J2U2	ED2SC210J2U2

1-Gang Selector Switches — Maintained Contact

	Hub Size (Inches)	Description	Diagram			Standard Legend Plate Marking	Catalog Number	
			Left	Center	Right		Dead-End	Feed-Thru
	1/2						ED2S15012	ED2SC15012
	3/4	2 Position 2 Circuit		None		On/Off	ED2S17512	ED2SC17512
	1						ED2S11012	ED2SC11012
	1/2						ED2S15035	ED2SC15035
	3/4	2 Position 4 Circuit		None		On/Off	ED2S17535	ED2SC17535
	1						ED2S11035	ED2SC11035
	1/2						ED2S150102	ED2SC150102
	3/4	3 Position 2 Circuit				Hand/Off/Auto	ED2S175102	ED2SC175102
	1						ED2S110102	ED2SC110102
	1/2						ED2S150345	ED2SC150345
	3/4	3 Position 4 Circuit				Hand/Off/Auto	ED2S175345	ED2SC175345
	1						ED2S110345	ED2SC110345

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 ▲ When a pilot light is selected, assembly is rated IP56.