

Division 2 Contender™ Series Factory Sealed Control Stations

NEC/CEC:
Class I, Division 2, Groups B, C, D
Zone 2
Class II, Division 1 and 2, Groups E, F, G
Class III

NEC/CEC:
NEMA 3, 3R, 4*, 4X*, 12
IP66 ^

Applications

- For use in washdown areas and other damp, wet and highly corrosive areas.
- Push buttons and selector switches are used in conjunction with contactors or magnetic starters for remote control of motors in hazardous locations. They provide circuit control and/or selection.
- Pilot lights provide visual assurance that an electrical function is being performed at a remote or local hazardous location.

Features

- Corrosion resistant captive stainless steel screws holds cover to body.
- Silicone gasket ensures high degree of water 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 featuring enhanced circuitry to prevent ghost 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 has 12/24 Vdc ratings.
- Bodies furnished with internal ground screw and external ground lug.
- Factory sealed, no external seals required.

Standard Materials

- Backbox: malleable iron or copperfree (4/10 of 1% max.) aluminum
- Cover: die-cast aluminum
- Screws: stainless steel
- Gasket: silicone

Standard Finishes

- Malleable iron backbox: triple coat—(1) zinc electroplate, (2) chromate, and (3) epoxy powder coat
- Aluminum backbox and cover: epoxy powder coat

Options

- For aluminum mounting body, 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 Vdc pilot light, add suffix **-DC**. (Push buttons and selector switches have Vac and Vdc ratings as standard.)
- 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**
 - Yellow **-PBYL**
 - Blue **-PBBU**



1-Gang Push Button and Pilot Light



1-Gang Selector Switch



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 add suffix **-SRL** (only available on -345 with ALT option).
 - 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

APPLETON™

CONTROLS: NEC/CEC EXPLOSIONPROOF CONTROL STATIONS AND SWITCHES

▼ Product with iron backbox is NEMA 4 rated. With aluminum backbox (add suffix **-A**), product is NEMA 4X rated.

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

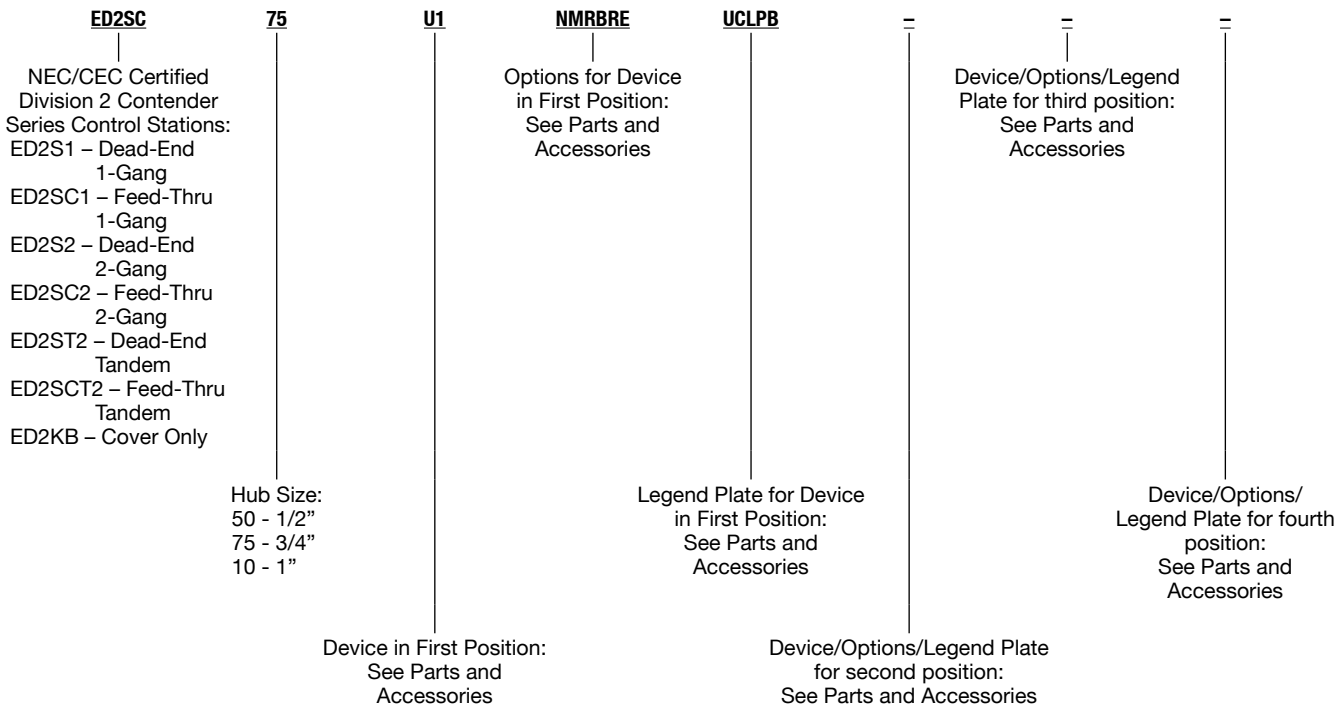
Classified by UL for use in specific combinations with Cooper Crouse-Hinds EDS covers and bodies.

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Catalog Numbering Guide



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Devices

Device Descriptions	Suffix
Momentary Push Button - 1NO/NC	U1
Momentary Push Button - 2NO/NC	UD1
Maintained Push Button - 1 NO/NC	UM1
Maintained Push Button - 2 NO/NC	UDM1
Pilot Light	J1
2-POS 2-CKT Selector Switch	12
3-POS 2-CKT Selector Switch	102
2-POS 4-CKT Selector Switch	35
3-POS 4-CKT Selector Switch (Labyrinth Switch Only)	345
Close-up Plug	PLG
Blank Cover	B

Options

Options Descriptions	Suffix
Amber Pilot Light	JGBA
Green Pilot Light	JGBG
Blue Pilot Light	JGBB
White Pilot Light	JGBW
DC Rating for Pilot Light	DC
Red Mushroom Head - Momentary Push Button	NMRBRE
Green Mushroom Head - Momentary Push Button	NMRBGR
Black Mushroom Head - Momentary Push Button	NMRBBL
Black Mushroom Head - Maintained Push Button	NMRBMBL
Green Mushroom Head - Maintained Push Button	NMRBMGR
Spring Return from Right - Selector Switch (3 Position Only)	SRC
Spring Return from Left - Selector Switch (3 Position Only)	SLC
Spring Return from Right and Left - Selector Switch (3 Pos, 4 Ckt and Alt Contacts Only)	SRL
Alternate Contacts - Selector Switch	ALT
Red Momentary Push Button	PBRE
Green Momentary Push Button	PBGR

Accessories

Accessories Descriptions	Suffix
Mushroom Head Push Button Locking Guard	UCMPBLG

Nameplate Options ①

Device Descriptions	Suffix
Two Position Selection Switch Nameplates	
Forward—Reverse	UCLP-FR
Hand—Auto	UCLP-HA
On—Off	UCLP-OO
Start—Stop	UCLP-SS
Blank	UCLP-B
Three Position Selection Switch Nameplates	
Jog—Off—Auto	UCLP-JOA
Forward—Off—Reverse	UCLP-FOR
Hand—Off—Auto	UCLP-HOA
Run—Off—Jog	UCLP-ROJ
Blank	UCLP-B
Pilot Lights	
Blank	UCPLP-B
Run	UCPLP-RUN
On	UCPLP-ON
Off	UCPLP-OFF
Close	UCPLP-CLOSE
Push Buttons	
<i>(Standard, Mushroom Head and Mushroom Head Maintained)</i>	
Blank	UCLP-B
Off	UCLP-OFF
On	UCLP-ON
Forward	UCLP-FWD
Reverse	UCLP-REV
Jog	UCLP-JOG
Run	UCLP-RUN
Start	UCLP-ST
Stop	UCLP-SP
Up	UCLP-UP
Down	UCLP-DOWN
Fast	UCLP-FAST
Slow	UCLP-SLOW
Raise	UCLP-RAISE
Lower	UCLP-LOWER
Open	UCLP-OPEN
Close	UCLP-CLOSE
Low	UCLP-LOW
High	UCLP-HIGH
Test	UCLP-TEST
Rest	UCLP-RESET
Emergency Stop	UCLP-ESTP

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① Custom nameplates are available. Contact your local sales representative for details.

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1-Gang Push Button and Pilot Lights — Momentary

	Hub Size (Inches)	Description	Diagram	Standard Legend Plate Marking and Device Color	Catalog Number	
					Dead-End	Feed-Thru
	1/2	1 Circuit Universal		Start/Green	ED2S150U1	ED2SC150U1
	3/4				ED2S175U1	ED2SC175U1
	1				ED2S110U1	ED2SC110U1
	1/2	2 Circuits Universal		Start/Green Stop/Red	ED2S150U2	ED2SC150U2
	3/4				ED2S175U2	ED2SC175U2
	1				ED2S110U2	ED2SC110U2
	1/2	1 Circuits Universal 1 Pilot Light		Start/Green Blank/Red	ED2S150J1U1	ED2SC150J1U1
	3/4				ED2S175J1U1	ED2SC175J1U1
	1				ED2S110J1U1	ED2SC110J1U1
	1/2	1 Pilot Light		Blank/Red	ED2S150J1	ED2SC150J1
	3/4				ED2S175J1	ED2SC175J1
	1				ED2S110J1	ED2SC110J1
	1/2	2 Pilot Lights		Blank/Red	ED2S150J2	ED2SC150J2
	3/4				ED2S175J2	ED2SC175J2
	1				ED2S110J2	ED2SC110J2

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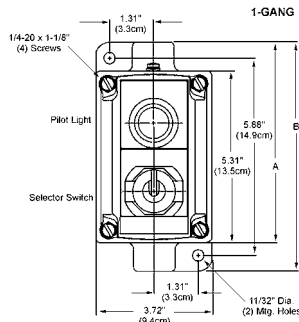
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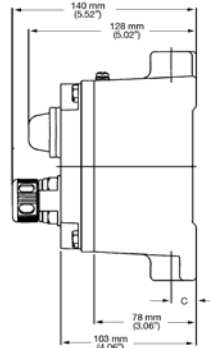
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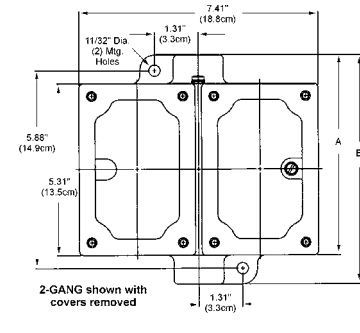
Dimensions in Millimeters (Inches)



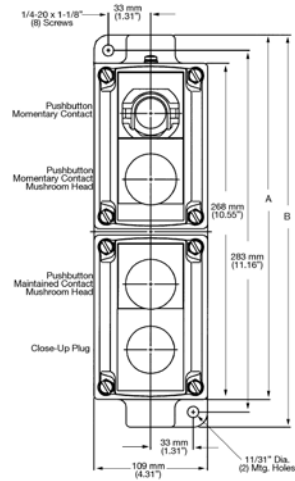
1-Gang Front View



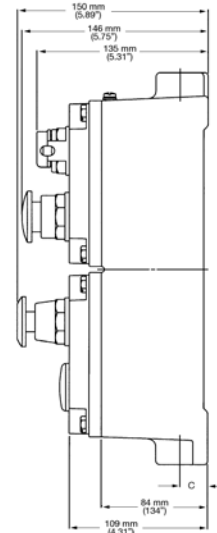
1- and 2-Gang Side View



2-Gang Front View



Tandem Front View



Tandem Side View

Unilet Type	Hub Size (Inches)	Dimensions in Millimeters (Inches)		
		A	B	C
1-Gang	1/2	153.9 (6.06)	173.0 (6.81)	19.1 (0.75)
	3/4	153.9 (6.06)	173.0 (6.81)	22.4 (0.88)
	1	156.7 (6.17)	179.6 (7.03)	25.4 (1.00)
2-Gang	1/2 and 3/4	153.9 (6.06)	173.0 (6.81)	22.4 (0.88)
	1	156.7 (6.17)	179.6 (7.03)	25.4 (1.00)
Tandem	1/2 and 3/4	287.3 (11.31)	309.1 (12.09)	22.4 (0.88)
	1	290.6 (11.44)	312.7 (12.31)	25.4 (1.00)