

# 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

▼ 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.

APPLETON™

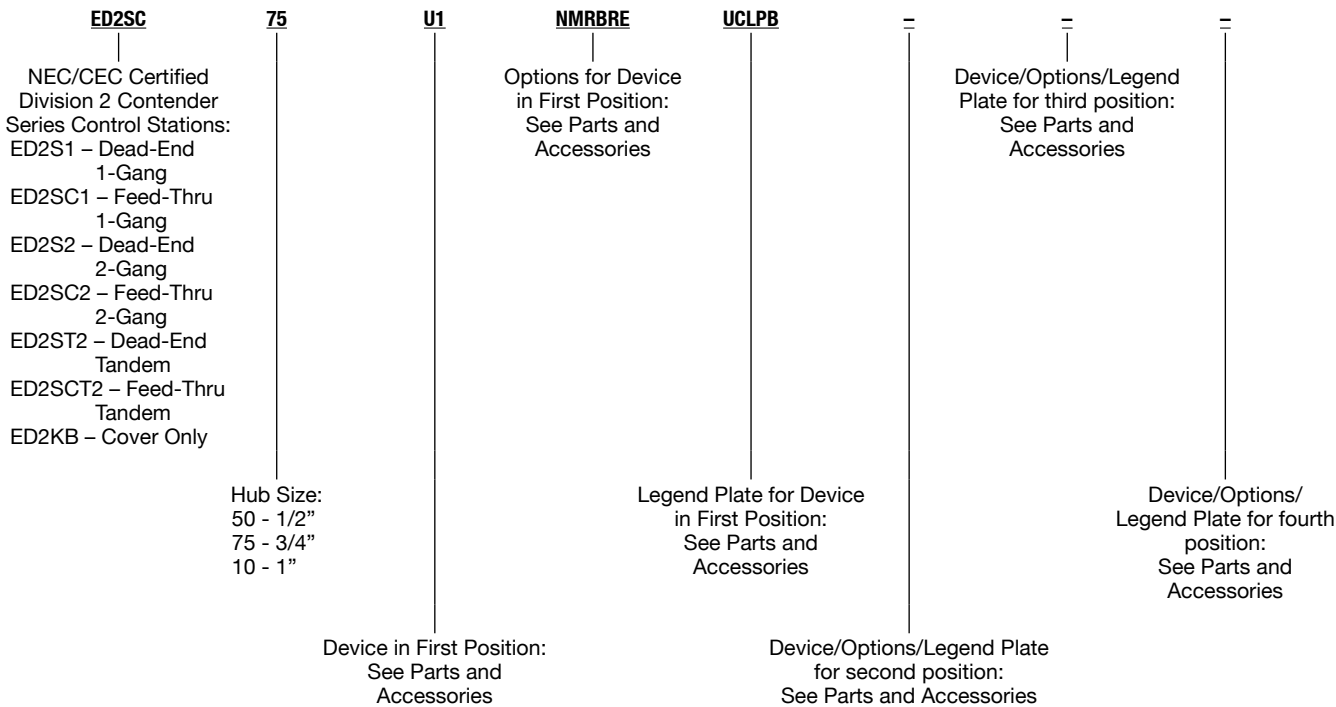
CONTROLS: NEC/CEC EXPLOSIONPROOF CONTROL STATIONS AND SWITCHES

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## Catalog Numbering Guide



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## Devices

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

## Options

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

## Accessories

| Accessories Descriptions                | Suffix         |
|-----------------------------------------|----------------|
| Mushroom Head Push Button Locking Guard | <b>UCMPBLG</b> |

## Nameplate Options ①

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

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

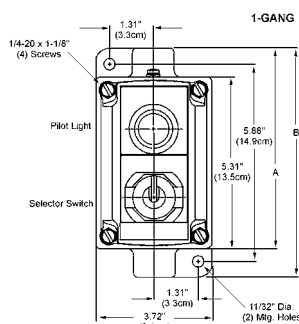
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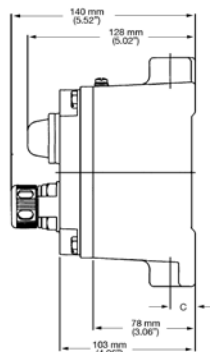
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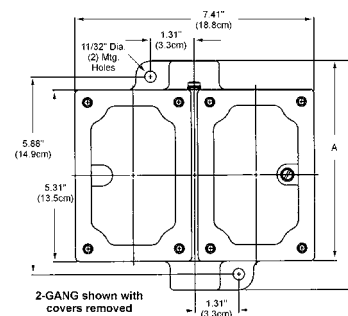
## Dimensions in Millimeters (Inches)



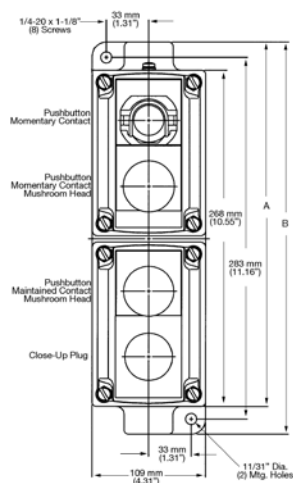
1-Gang Front View



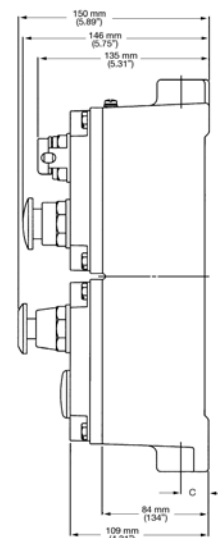
1- and 2-Gang Side View



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) |

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