

# UniCode™ Series Factory Sealed Control Stations and Pilot Lights

**NEC/CEC:**  
 Class I, Division 2, Groups B, C, D  
 Class I, Zone 2, Group IIC  
 Class II, Groups E, F, G  
 Class III

**NEC/CEC:**  
 Type 3, 3R, 4, 4X  
 IP66

## Applications

- For use in hazardous areas as defined by the National Electrical Code (NEC), and Canadian Electrical Code (CEC).
- 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.
- For installation in:
  - Chemical and petrochemical plants
  - Refineries
  - Pulp and paper processing plants
  - Other industrial applications

## Features

- Corrosion resistant captive stainless steel screws hold covers to body.
- Available with two types of explosion proof protection. The Labyrinth switch is rated A600 heavy pilot duty and P150.
- Durable materials and construction exceeds UL environmental requirements including impact.
- Enclosures constructed of specially formulated fiberglass reinforced thermoset polyester with low surface resistivity that will not hold a static charge.
- Wide variety of devices and options results in a control station tailor made to the application.
- 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 Vac/24 Vdc ratings.
- Both the standard hub and union hub provide ground path continuity in feed-thru applications.
- Factory sealed — no external seals required.
- Optional union hub allows temporary rotation of hub for ease of installation.

## Standard Materials

- Body and cover: fiberglass reinforced thermoset polyester
- Standard hub, union hub and ground plate: stainless steel and Noryl®
- UCPL push button and UCSS selector switch operators: polyester, Valox™, and stainless steel
- Screws: stainless steel
- Pilot light: glass jewel

## Options

- UCPL Pilot Light is red as standard; if green is desired, add suffix **-JGBG**; if amber is desired, add suffix **-JGBA**; if blue is desired, add suffix **-JGBB**.
- Stainless steel mounting feet available, add suffix **-SSMTG**.
- For Vdc pilot light, add suffix **-DC** to catalog number (push buttons and selector switches have Vac and Vdc ratings as standard).
- Push button front operated mushroom head (maintained contact): standard color is red. Also available in green, add suffix **-NMRBMGR**; and black, add suffix **-NMRBMBL**.
- Push button front operated mushroom head (momentary contact): standard color is black. Also available in red, add suffix **-NMRBRE**; in green, add suffix **-NMRBGR**; or black, add suffix **-NMRBBL**.

► Noryl is a registered trademark of General Electric Corp.



1 Device



2 Device



3 Device



4 Device

- Standard momentary push button colors are listed next to catalog numbers for assembled control stations. To change color to red, add suffix **-PBRE**; to change color to green, add suffix **-PBGR**; to change color to black, add suffix **-PBBL**; to change color to yellow, add suffix to **-PBYL**; to change color to blue, add suffix **-PBBU**.
- 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**.
- For complete list of options, see Options and Accessories.

## NEC/CEC Certifications and Compliances

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

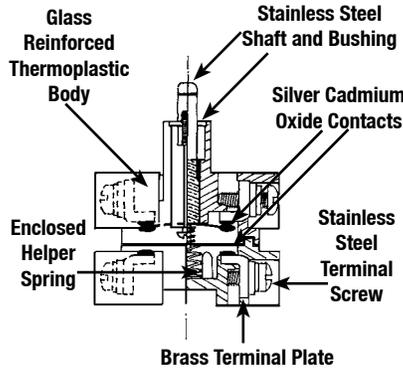
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## Illustrated Features

### Labyrinth Switch Details



The standard Labyrinth switch is available with universal contacts (1 NO/1 NC). The switch is a UL recognized component and is rated for A600 heavy pilot duty (AC) and P150 (DC) as defined by UL 508. Hazardous Location ratings include Class I, Division 2, Groups B, C, D. Wire Range: #14 to #12 AWG

#### A600 Rating Designation

10 Amp Continuous @ 600 Vac – 7200VA (Make) 720VA (Break)

	Make Amp	Break Amp
120 Vac	60	6
240 Vac	30	3
480 Vac	15	1.5
600 Vac	12	2

#### P150 Rating Designation

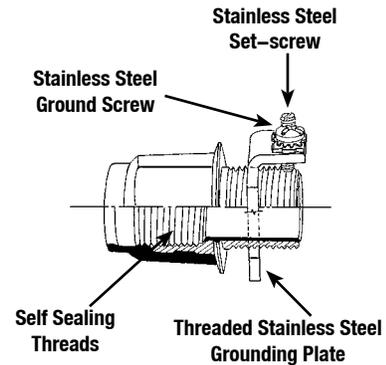
5 Amp Continuous @ 125 Vdc

138VA @ 300 Vdc

1.1 Amp @ 125 Vdc

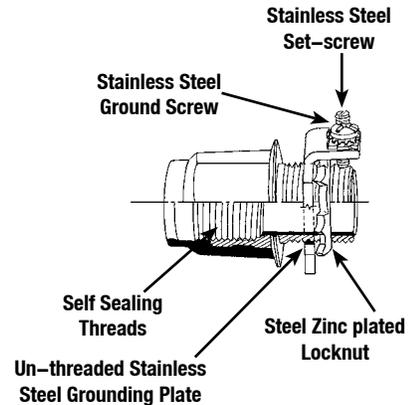
### Hub Details

Two different hubs are available on the UniCode line. Both Versions exceed the UL conduit torque requirements. However, different features are offered by each:



Standard hubs are of stainless steel and Noryl® construction. Stainless steel ground plate is threaded and includes stainless steel set-screw and ground screw.

### Stainless Steel/Noryl® Hub



Optional union hubs are of stainless steel and Noryl® construction. Ground plate is stainless steel and not threaded. Hub spins freely for ease of installation; then steel locknut is tightened to secure hub.

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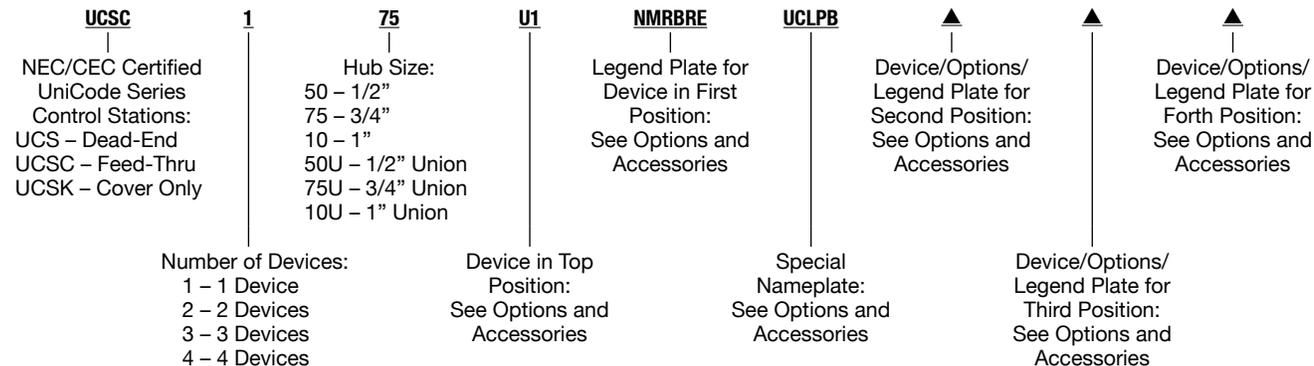
CONTROLS: NEC/CEC EXPLOSIONPROOF CONTROL STATIONS AND SWITCHES

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## Catalog Numbering Guide



Device Descriptions	Device Code
Momentary Push Button - 1NO/NC	U1 ①
Momentary Push Button - 2NO/NC	UD1
Maintained Push Button - 1NO/NC	UM1
Maintained Push Button - 2NO/NC	UDM1
Pilot Light	J1 ②
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
Options Descriptions	Device Code
Amber Pilot Light	JGBA
Green Pilot Light	JGBG
Blue Pilot Light	JGBB
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 Descriptions	Accessory Code
Stainless Steel Mounting Feet	SSMTG
Mushroom Head Push Button Locking Guard	UCMPBLG

① Momentary push buttons are black. Add —**PBRE** for red or —**PBGR** for green.  
 ② Pilot lights are red. Add —**JGBA** for amber, —**JGBG** for green or —**JGBB** for blue.

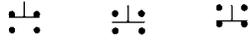
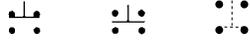
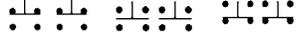
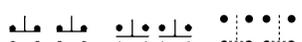
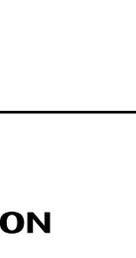
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## Selector Switches. Component Parts

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 Class III

**Selector Switch**

	Description	Diagram	Catalog Number
 <p><b>2 Position, 2 Circuit</b></p>	2 Position, 2 Circuit, Maintain Contact Left Position, Maintain Contact Right Position On/Off nameplate		<b>UCSS12</b>
	2 Position, 4 Circuit, Maintain Contact Left Position, Maintain Contact Right Position On/Off nameplate		<b>UCSS22</b>
 <p><b>2 Position, 4 Circuit</b></p>	3 Position, 2 Circuit, Maintain Contact Left Position, Maintain Contact Right Position Hand-Off-Auto nameplate		<b>UCSS13</b>
	3 Position, 2 Circuit, Momentary Contact Right Position, Spring Return to Center, Maintain Contact Left Position		<b>UCSS13SRC</b>
 <p><b>3 Position, 2 Circuit</b></p>	3 Position, 2 Circuit, Momentary Contact Left Position, Spring Return to Center, Maintain Contact Right Position		<b>UCSS13SLC</b>
	3 Position, 4 Circuit Maintain Contact Left Position Maintain Contact Right Position		<b>UCSS23</b>
 <p><b>3 Position, 2 Circuit</b></p>	3 Position, 4 Circuit, Alternate Contacts Maintain Contact Left Position Maintain Contact Right Position		<b>UCSSA23</b>
	3 Position, 4 Circuit Momentary Contact Right Position Spring Return to Center Maintain Contact Left Position		<b>UCSS23SRC</b>
 <p><b>3 Position, 4 Circuit</b></p>	3 Position, 4 Circuit, Alternate Contacts, Momentary Contact Right Position, Spring Return to Center, Maintain Contact Left Position		<b>UCSSA23SRC</b>
	3 Position, 4 Circuit, Momentary Contact Left Position, Spring Return to Center, Maintain Contact Right Position		<b>UCSS23SLC</b>
	3 Position, 4 Circuit, Alternate Contacts, Momentary Contact Left Position; Spring Return to Center, Maintain Contact Right Position		<b>UCSSA23SLC</b>
	3 Position, 4 Circuit, Alternate Contacts, Momentary Contact Left Position, Spring Return to Center, Momentary Contact Right Position		<b>UCSSA23SRL</b>

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