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® ▸
- UCPB 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**.

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

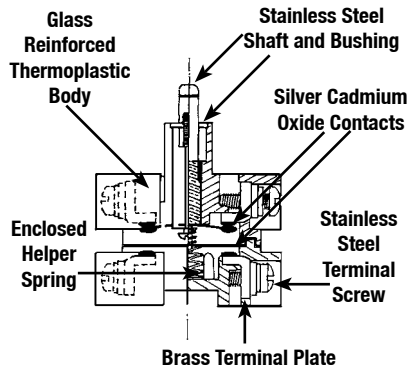▸ *Noryl is a registered trademark of General Electric Corp.*

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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)

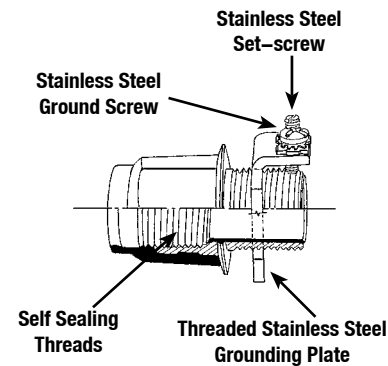|	Make Amp	Break Amp
120 Vac	60	6
240 Vac	30	3
480 Vac	15	1.5
600 Vac	12	2

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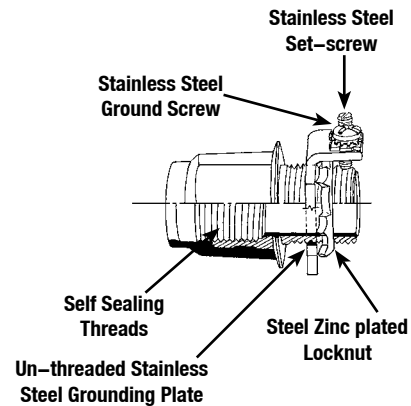
Optional union hubs are of stainless steel and Noryl® ▶ construction. Ground plate is stainless steel and not threaded. Hub spins freely for ease of installation; then steel locknut is tightened to secure hub.

▶ *Noryl is a registered trademark of General Electric Corp.*

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CONTROLS: NEC/CEC EXPLOSIONPROOF CONTROL STATIONS AND SWITCHES

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Catalog Numbering Guide

| UCSC | 1 | 75 | U1 | NMRBRE | UCLPB | ▲ | ▲ | ▲ |

UCSC — NEC/CEC Certified UniCode Series Control Stations:
UCS – Dead-End
UCSC – Feed-Thru
UCSK – Cover Only

Number of Devices:
1 – 1 Device
2 – 2 Devices
3 – 3 Devices
4 – 4 Devices

Hub Size:
50 – 1/2"
75 – 3/4"
10 – 1"
50U – 1/2" Union
75U – 3/4" Union
10U – 1" Union

Device in Top Position:
See Options and Accessories

Legend Plate for Device in First Position:
See Options and Accessories

Special Nameplate:
See Options and Accessories

UCLPB

Device/Options/Legend Plate for Second Position:
See Options and Accessories

Device/Options/Legend Plate for Third Position:
See Options and Accessories

Device/Options/Legend Plate for Forth Position:
See Options and Accessories

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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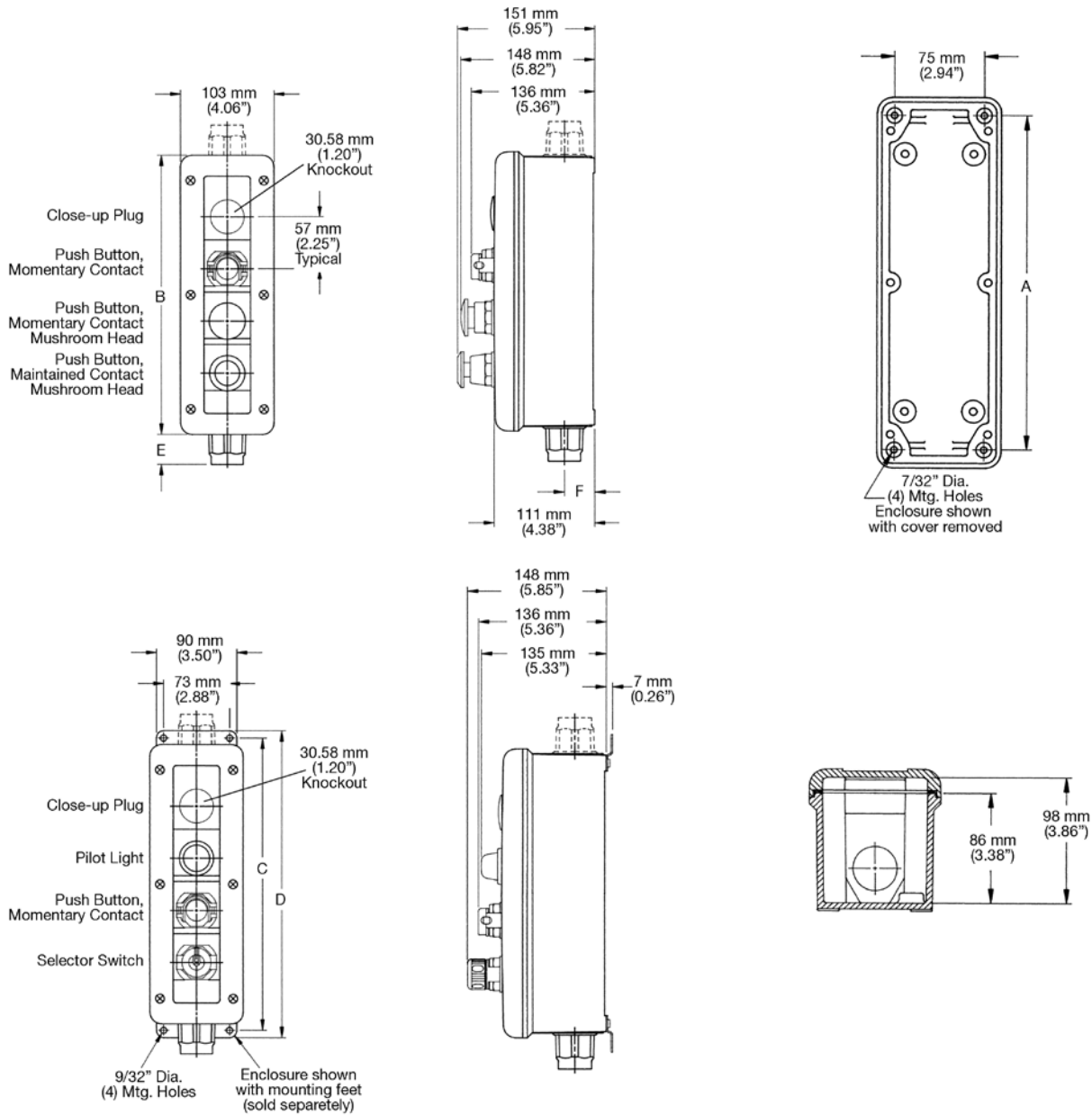|	Hub Size (Inches)	Description	Diagram	Standard Legend Plate Marking and Device Color	Catalog Number Dead–End	Catalog Number Feed–Thru
Push Buttons						
	Momentary Contact					
	1/2				UCS150U1	UCSC150U1
	3/4	1 Circuit Universal		Start/Green	UCS175U1	UCSC175U1
	1				UCS110U1	UCSC110U1
	1/2				UCS250U2	UCSC250U2
	3/4	2 Circuits Universal		Start/Green Stop/Red	UCS275U2	UCSC275U2
	1				UCS210U2	UCSC210U2
	1/2				UCS350U3	UCSC350U3
	3/4	3 Circuits Universal		Blank/Black	UCS375U3	UCSC375U3
	1				UCS310U3	UCSC310U3
	1/2				UCS450U4	UCSC450U4
	3/4				UCS475U4	UCSC475U4
		4 Circuits Universal		Blank/Black		
	1				UCS410U4	UCSC410U4
	Maintained Contact					
	1/2				UCS150UM1	UCSC150UM1
	3/4	1 Circuit Universal		Emergency Stop/Red	UCS175UM1	UCSC175UM1
	1				UCS110UM1	UCSC110UM1
Pilot Lights						
	Pilot Light has terminals for 120 or 240 Vac — Uses 8 cluster LED					
	1/2				UCS150J1	UCSC150J1
	3/4	1 Pilot Light		Blank/Red	UCS175J1	UCSC175J1
	1				UCS110J1	UCSC110J1
	1/2				UCS250J2	UCSC250J2
	3/4	2 Pilot Lights		Blank/Red	UCS275J2	UCSC275J2
	1				UCS210J2	UCSC210J2
	1/2				UCS350J3	UCSC350J3
	3/4	3 Pilot Lights		Blank/Red	UCS375J3	UCSC375J3
	1				UCS310J3	UCSC310J3
	1/2				UCS450J4	UCSC450J4
	3/4	4 Pilot Lights		Blank/Red	UCS475J4	UCSC475J4
	1				UCS410J4	UCSC410J4

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Dimensions in Millimeters (Inches)

Close-up Plug

Push Button, Momentary Contact

Push Button, Momentary Contact Mushroom Head

Push Button, Maintained Contact Mushroom Head

Close-up Plug

Pilot Light

Push Button, Momentary Contact

Selector Switch

Enclosures	Hub Size (Inches)	Dimensions in Millimeters (Inches)					
		A	B	C	D	E	F
1 or 2 Device	1/2	162.1 (6.38)	192.0 (7.56)	206.5 (8.13)	222.8 (8.77)	31.2 (1.23)	26.9 (1.06)
3-Device	3/4	219.2 (8.63)	249.2 (9.81)	263.7 (10.38)	279.9 (11.02)	31.8 (1.25)	26.9 (1.06)
4 Device	1	276.4 (10.88)	306.3 (12.06)	320.8 (12.63)	337.1 (13.27)	32.5 (1.28)	33.3 (1.31)

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