

## BEAVER, PA 15009 PH: 724-775-7926 FX: 724-775-5283

www.c3controls.com e-mail: info@c3controls.com

# **Installation Instructions** & Dimensional Drawings

LATCHING DEVICE

(2) Contact Block

## IL 100131 W22 PILOT DEVICES

MOMENTARY AND MAINTAINED PUSH BUTTONS, SELECTOR SWITCHES, PILOT LIGHTS, AND PTR After removing the operator from its package, remove latching device with contact block(s) attached by using a #2 flat head screwdriver to lift up on the lever to unlock, then unscrew and remove the clamp ring.

- Operator
   Panel Gasket
- Panel Gasket
   A, Make certain the panel gasket sits flat against the panel or legend plate and is compressed between the housing and mounting surface.
   Cegend Plate (optional)
   Panel

- legenus promounting surface.

  ② Legend Plate (optional)
  ④ Panel
  ⑤ Clamp Ring
  a.) Secure the operator with the recommended tightening torque of 0.79 Nm (7 lb-in). This will compress the panel gasket making the operator tight to the panel.
  ⑥ Latching Device
  a.) Snap contact block(s) onto latching device (may be pre-assembled). Note: Max contact depth of 2 blocks; selector switches

  """ of the operator housing. pre-assembled). Note: Max contact depth of 2 blocks; selector switches and illuminated devices cannot utilize middle row of contacts; pilot light cannot utilize any contact blocks.
- Make certain to align the operator arrow with the top of the latching device. Push on to operator until an audible click is heard. Verify that components are locked into place.
- (2) Contact Block
  Note: For Pilot Lights stop after Step 6, for Unibody Pilot Lights stop after



er removing the operator from its pack love both the rod and clamp ring.

- remove both the rod and clamp ring.

  Operator

  Panel Casket

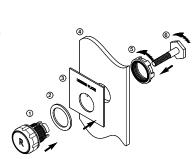
  a.) Make certain the panel gasket sits flat against the panel or legend plate and is compressed between the housing and legend plate and is seen, mounting surface.

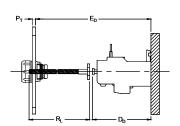
  3 Legend Plate (optional)

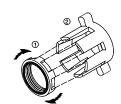
- of 0.79 Nm (7 lb-in). This will compress the panel gasket making the operator tight to the panel.

- (9) Nod a.) Cut the rod to the desired length.  $\begin{aligned} R_L &= E_D \cdot D_D + P_T + 4.00 \text{ mm (0.157")} \\ \text{Min. Panel Thickness } (P_T) &= 1 \text{ mm (0.04")} \\ \text{Max. Panel Thickness } (P_T) &= 4 \text{ mm (0.16")} \\ \text{Min. Enclosure Depth } (E_D) &= 34.10 \text{ mm (1.34")} + D_D \cdot P_T \\ \text{Max. Enclosure Depth } (E_D) &= 175.40 \text{ mm (6.91")} + D_D \cdot P_T \end{aligned}$ 
  - E<sub>D</sub> = Enclosure Depth P<sub>T</sub> = Panel Thickness
  - Dn = Device Depth\*

  - B<sub>0</sub> = Device Depth \*Device Depth (D<sub>0</sub>) is based on the mounting of the device (ex: panel mount or direct mount to a contactor).







### CLAMP RING WRENCH

To tighten or loosen clamp ring, slide the notches on the wrench into the notches of the clamp ring. Turn clockwise to tighten, counter clockwise to loosen. Torque to compress gaskets 0.79 n (7 lb-in) recommended Clamp Ring

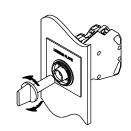
### LAMP REMOVAL TOOL

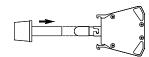
To replace lamp, unscrew illuminated lens or bezel (remove clear Io replace lamp, unscrew illuminated lens or bezel (remove clear diffuser cap if applicable) and insert tool over lamp. Push-in and turn counter clockwise, 1/4 turn (90°). Pull tool toward you. Remove lamp from tool. Gently insert the replacement lamp into the tool. Align the nothes on the lamp base with the socket notches. Turn clockwise, 1/4 turn (90°). Remove tool. Screw lens on operator.

### Back of Panel:

Back of Panel:

To replace lamp, remove latching device by using a #2 flat head screwdriver to lift up on the lever to unlock and remove the latching device assembly. Insert tool over lamp and push-in and turn counter clockwise, 14 turn (90"). Pull tool toward you. Remove lamp from tool. Gently insert the replacement lamp into Remove lamp from tool. Gently insert the replacement amp in the tool. Align the notches on the lamp base with the socket notches. Turn clockwise, 1/4 turn (90°). Remove tool. Slide latching device assembly onto the back of the operator housing until an audible click is heard. Make certain to align the operator arrow with the top of the latching device. Verify the bracket is locked into place.





# THRUST WASHERS

Thrust washer should be positioned behind the panel.

Note: Do not use the trim washer with legend plate or panels thicker than 1.58 mm (1/16").

- Operator
   Panel Gasket
- a.) Make certain the panel gasket sits flat against the panel and is compressed between the housing and mounting surface.

D Latching Device
a) Slide latching device onto the back of the operator housing. Make certain to align the operator arrow with the top of the latching device.
Push on to operator until an audible click is heard. Verify the bracket

a.) Hook top tab of contact block onto top bracket on back of latching

b.) Rotate contact block downward until bottom tab of contact block clips into latching device's lower bracket.

① Latching Device
a.) Use a #2 flat head screwdriver to lift up on the lever to unlock latching device.
b.) Slide latching device off of the back of the operator housing.

a) Insert a flat head screwdriver into valley on bottom contact block tab and lever upward to unlatch bottom tab. b) Rotate contact block upward until bottom tab of the contact block upward until bottom tab of the contact block is free from latching device bracket, then remove entire contact block

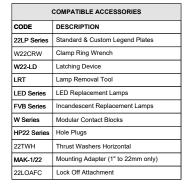
- 3 Legend Plate (optional)
  4 Panel
  5 Thrust Washer
  6 Clamp Ring

### MOUNTING ADAPTERS

Mounting Adapter for mount in a round 25.4mm (1") hole. ① Operator ② 22mm Panel Gasket nting 22mm pilot devices

- Panel
- Mounting Hole Adapter
- Clamp Ring Latching Device Assembly Includes contact block(s) and/or light module.





# **⚠** CAUTION

In applications where the multi-voltage pilot light is in line with an inductive component (i.e. relay coils, solenoids, motors...etc.) that may cause transient voltages, we recommend surge protection (i.e. MOVs, diodes) be added to the circuit to prevent any damage to the multi-voltage pilot light or any electronic based components in the circuit.

## ⚠ ATTENTION

Dans des demandes(applications) où le pilote de multi-tension la lumière est conformément à un composant inductif (c'est-à-dire des bobines de relais, des solénoïdes, moteurs) qui peut causer des tensions passagères. nous recommandons la protection de montée (c'est-à-dire MOVs, les diodes) être aiouté au circuit pour empêcher n'importe quels dégâts au pilote de multi-tension allument(éclairent) ou n'importe quels composants basés électroniques dans le circuit.



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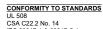
Installation of c3controls product must be in accordance with the NEC (U.S. National Electrical Code) regulations or local codes/standards per your application. Any violation of these safety require could result in a personal injury and/or result in damage to the equipment.

## ⚠ AVERTISSEMENT

L'installation de produit c3controls doit être conformément au NEC (le Code Électrique national américain) des règlements ou des codes/normes locaux par votre demande(application). N'importe quelle violation de ces exigences de sécurité pourrait aboutir à une blessure personnelle et-ou aboutir aux dégâts à l'équipement.







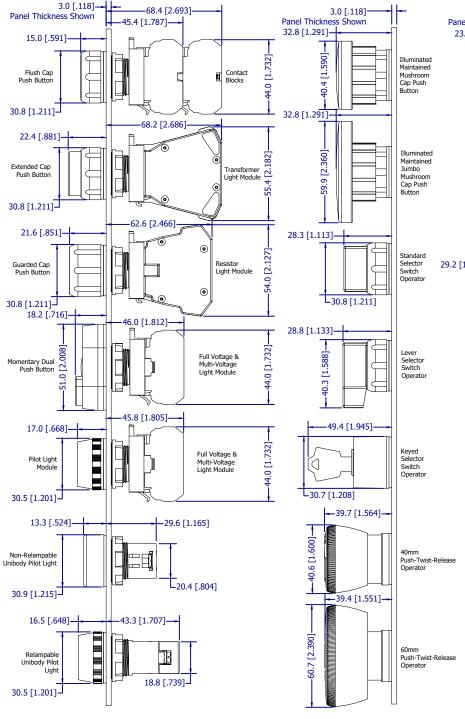


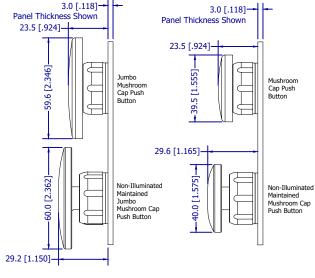
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# **Installation Instructions**

# & Dimensional Drawings

IL 100131 W22 PILOT DEVICES





ENVIRONMENTAL RATINGS
Suitable for use on flat surfaces of Type 1, 2, 3, 3R, 4/4X, 12, 13
IP66 [per EN 60529]
"Aluminum Bezels are Type 4 Only

### TEMPERATURE RANGE

Operating Temperature: -40 to +55° C (-40 to +131° F) Storage Temperature: -40 to +85° C (-40 to +185° F)

- M3.5 x 0.6 Steel, plated terminal screws with self lifting captive wire clamps.

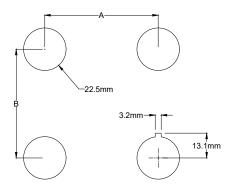
- M3.5 x 0.6 Steel, plated terminal screws with self Wire AWG 22-12 CU (Copper only) [0.5 ~ 4mm²] One or two wires permitted per termination. Recommended wire strip length 10mm (+/-1mm).
- Recommended terminal tightening torque 7 lb-in (+3.0/-0.0 lb-in) [0.8 Nm].

### ELECTRICAL RATINGS

AC Device Rating Designation A600 (600 Vac MAX) (AC-15) 7200 VA (Make) 720 VA (Break) 10A Continuous Therma

### DC Device Rating Designation Q600 (600 Vdc MAX) (DC-13) 69 VA (Make & Break)

2.5A Continuous Ther



MOUNTING HOLE PATTERN		
SPACING	A	В
Minimum	31.8mm (1-1/4")	47.9mm (1-7/8")
Standard	38.1mm (1-1/2")	57.2mm (2-1/4")
Staggered Contacts	44.5mm (1-3/4")	44.5mm (1-3/4")

- Mounting hole in panel 22.5mm (7/8").
- Mounting hole in panel 22.5mm (7/8").

  Mounting hole spacing (for standard legend plates) Horizontal & Vertical distance 47.9mm (1-7/8") center to center.

  Fully-assembled operators come standard with one 1.6mm (1/16" gasket). Maximum panel thickness 6mm (1/4").

  When installing illuminated devices vertically adjacent to one another, use the

- "Standard" spacing as the "Minimum".

All dimensions represent both plastic and metal versions unless otherwise noted All dimensions represent both illuminated and non-illuminated versions unless otherwise noted



