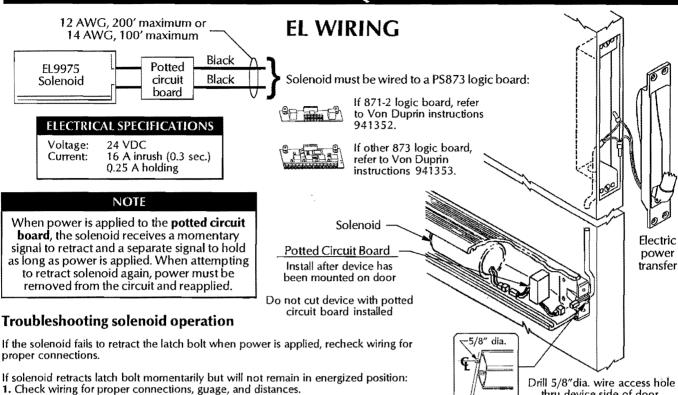
### **OPTIONAL EQUIPMENT**

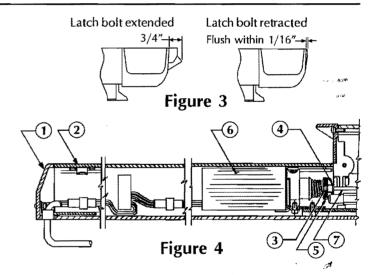


### **EL ADJUSTMENT PROCEDURE**

2. Check for latch bolt binding caused by improper strike installation, warped door, etc.

- A. Check for proper function:
  - Make sure device is not dogged.
  - Depress pushbar and make sure latch bolts retracts and extends fully (see Figure 3).
  - Electrically energize solenoid and hold.
  - Check latch bolt(s) for full retraction (must clear strike (see Figure 3).
  - Release solenoid and check latch bolt extension (see Figure 3).
    Continue to Section B if device does not
  - function electrically.
- B. Determine if dogging rod adjustment is too long or short:
  - 1. The dogging rod adjustment is too long if latch bolt does not retract and clear strike (see Section C for adjustment).
  - The dogging rod adjustment is too short if latch bolt does not fully extend or latch bolt fully retracts but solenoid releases while energized (see Section D for adjustment).
- C. Adjust solenoid if dogging rod is too long (see Figure 4):
  - Remove end cap ① and dogging cover ②.

  - Loosen cap screw ③.
    Hold plunger ⑤ depressed in solenoid housing ⑥. Note: Push hard against plunger S to overcome an internal spring in solenoid housing ©.
  - Turned threaded bushing @ in to shorten dogging rod To so latch bolt fully retracts.
  - Tighten cap screw 3.
    - Note: Cap screw @ must be tightened against flat on threaded bushing ①. Apply a few drops of Loc-Tite 222 to threads of cap
  - 6. Replace dogging cover ② and end cap ①.
  - Return to Section A to check for proper function.



5/16"

- D. Solenoid adjustment if dogging rod adjustment is too short (see Figure 4)
  - 1. Remove end cap ① and dogging cover ②.
  - Loosen cap screw 3.
  - Hold plunger S depressed in solenoid housing S.
  - Hold plunger & depressed in solenoid nousing &.
     Turn threaded bushing ® out to lengthen dogging rod ® so plunger ® just bottoms in solenoid housing ® and latch bolt is fully retracted.
     Note: Push hard against plunger ® to overcome an internal spring in solenoid housing ®.
     Tighten cap screw ®.

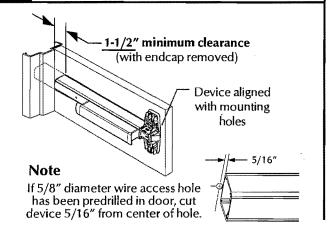
Note: Cap screw 3 must be tightened against flat on threaded bushing **(4)**. Apply a few drops of Loc-Tite 222 to threads of cap screw **(3)**.

- Replace dogging cover @ and end cap O.
- Return to Section A to check for proper function.

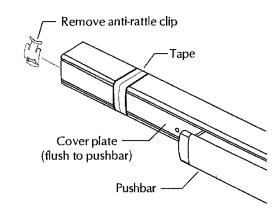
thru device side of door.

### **CUT DEVICE**

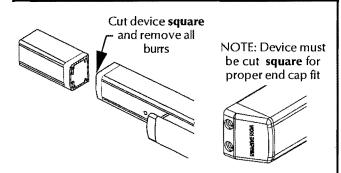
### Measure amount to cut off device.



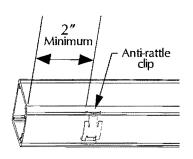
### Tape and mark area being cut.



### 3 Cut device square.

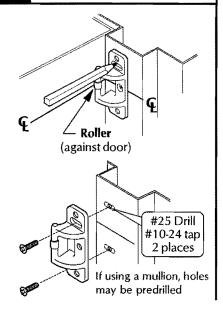


4. Slide anti-rattle clip into device.

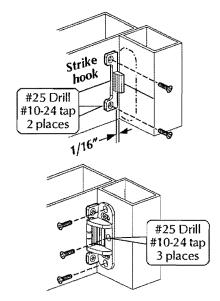


### **499F STRIKE INSTALLATION**

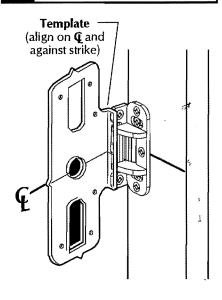
# Prepare and install screws through 2 strike slots.



2 Install strike hook and additional strike screws.



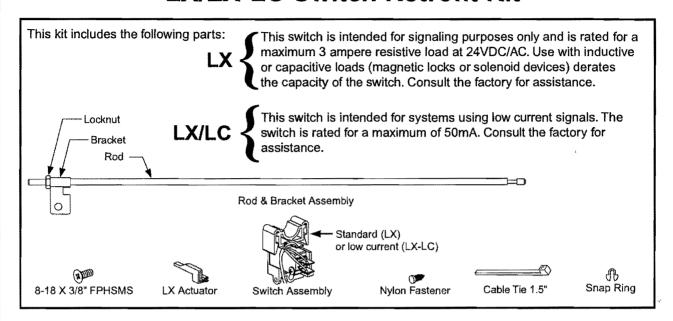
3 Template aligns as shown.



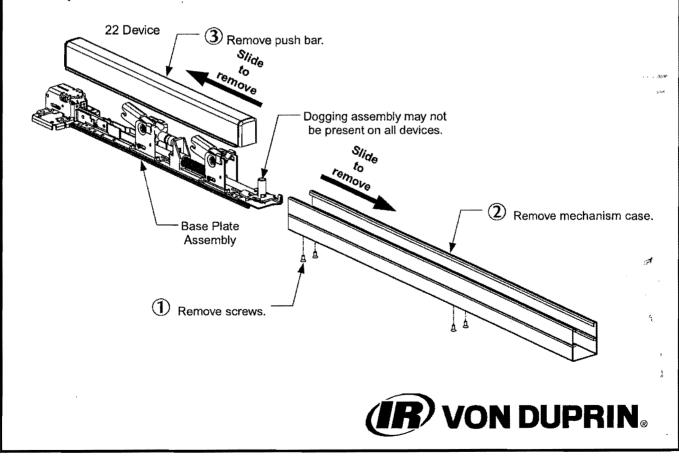
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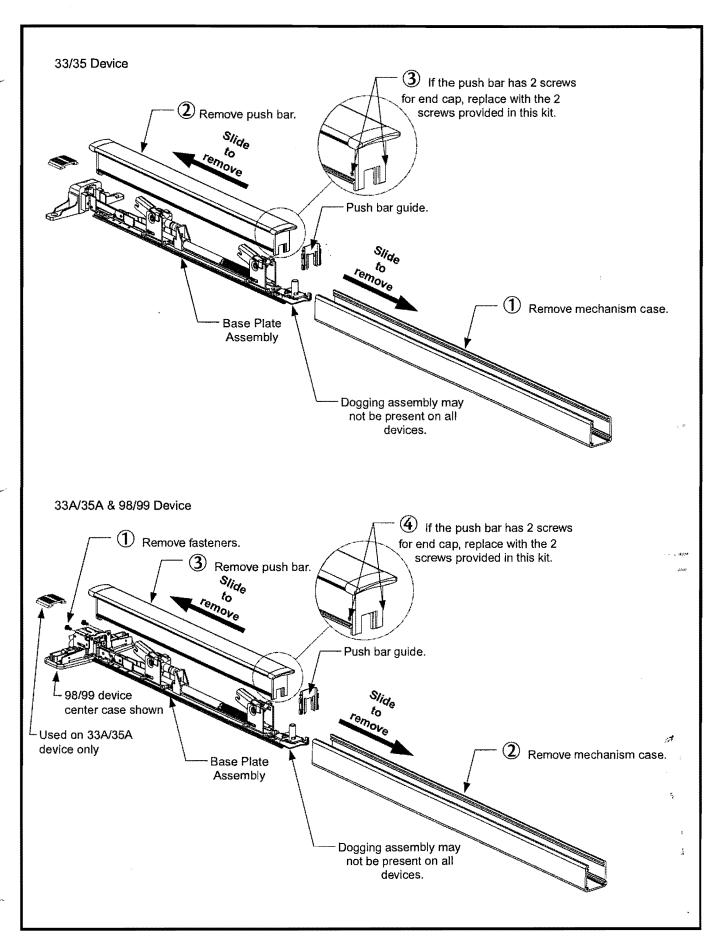
## **VON DUPRIN** INSTALLATION INSTRUCTIONS

### LX/LX-LC Switch Retrofit Kit

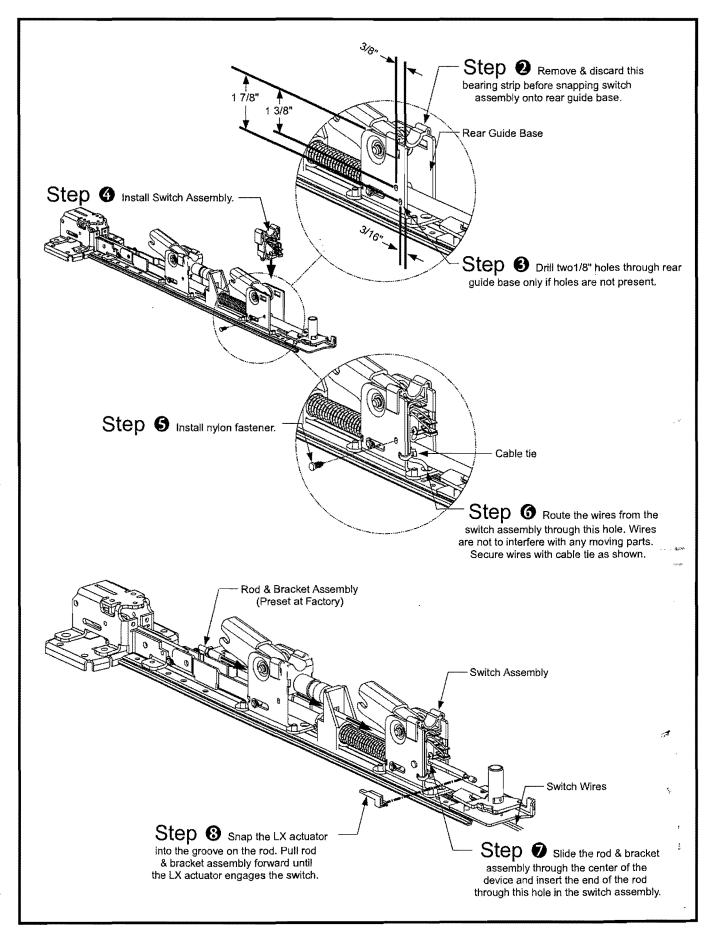


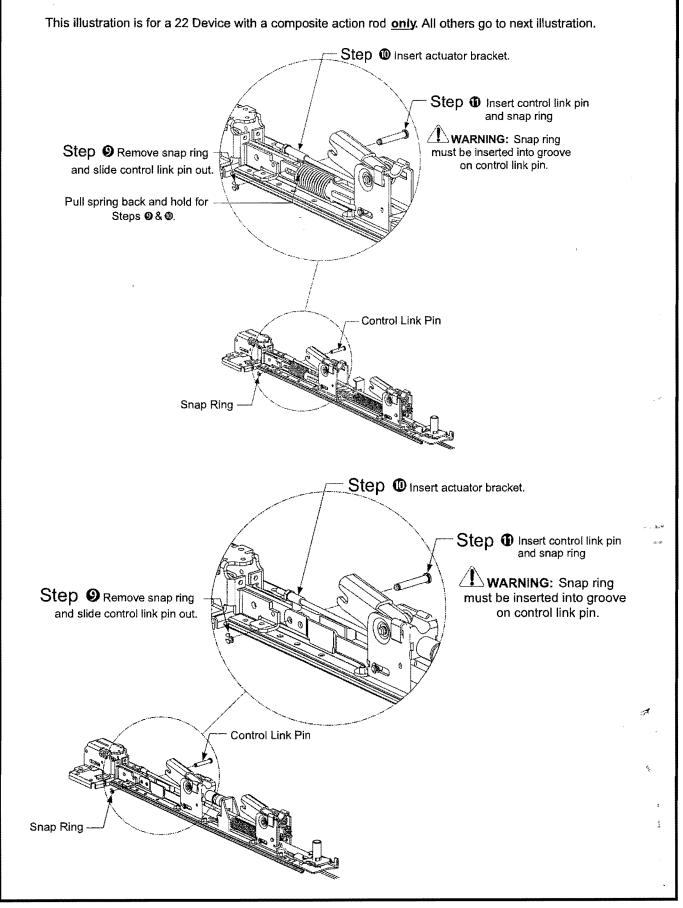
### Step 1 Disassemble the device. (Remove from door if mounted.)





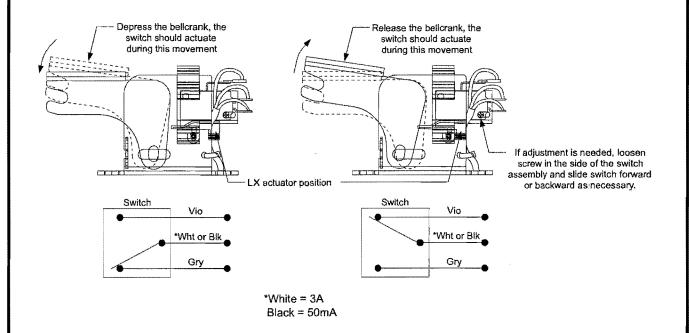
Page 2



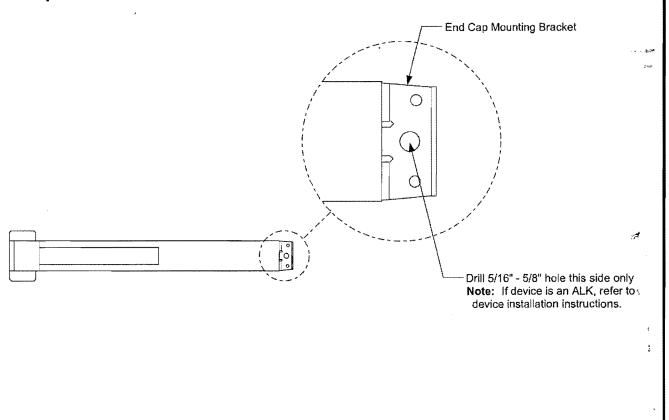


Page 4

# $Step \ \, \text{$\Phi$} \text{ Check the switch for proper actuation} \, .$

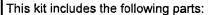


# $Step \,\, {\rm 1\!\! B} \, {\rm Prep \, door \, for \, device \, wiring.}$



# **VON DUPRIN®** INSTALLATION INSTRUCTIONS

#### RX/RX-LC/S1 Switch Retrofit Kit



RX {

This switch is intended for signaling purposes only and is rated for a .1 ampere to 3 ampere resistive load at 24VDC/AC. Use with inductive or capacitive loads (magnetic locks or solenoid devices) derates the capacity of the switch. Consult the factory for assistance.

RX-LC

This switch is intended for systems using low current signals. The switch is rated for a maximum of 50mA. Consult the factory for assistance.

Standard (RX)



or low current (RX-LC)

(A hum

8-18 X 3/8" Flat Head Screw (2)

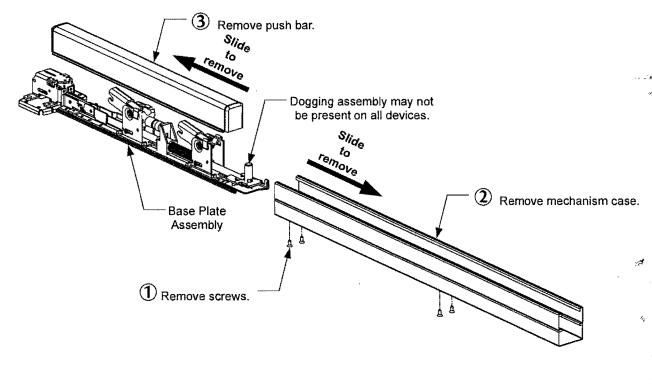
Switch Assembly

Cable Tie 1.5"

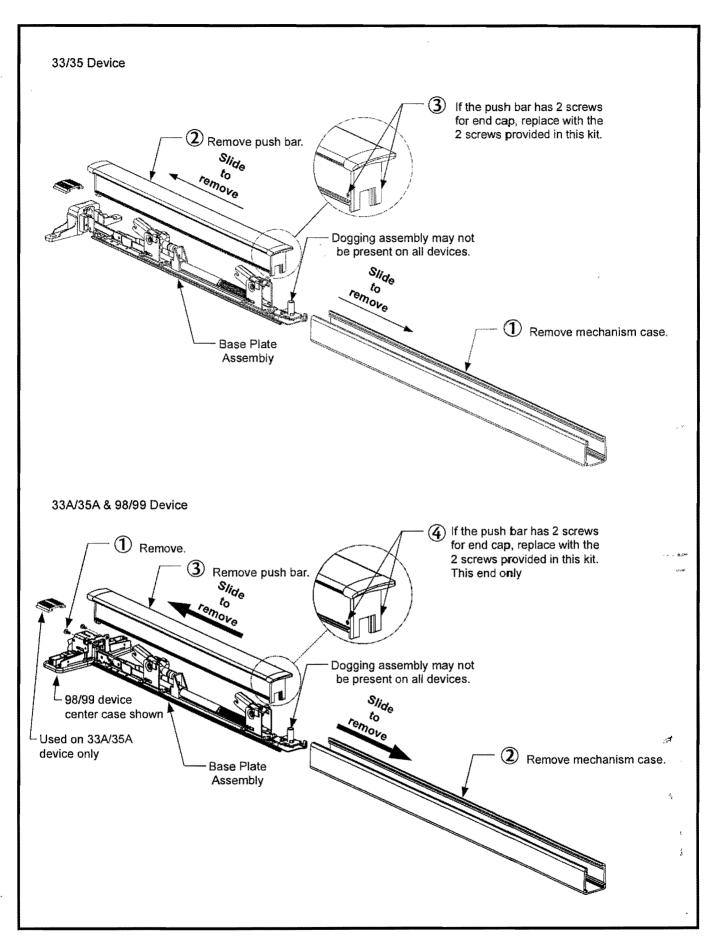
Nylon Fastener

# Step 1 Disassemble the device. (Remove from door if mounted.)

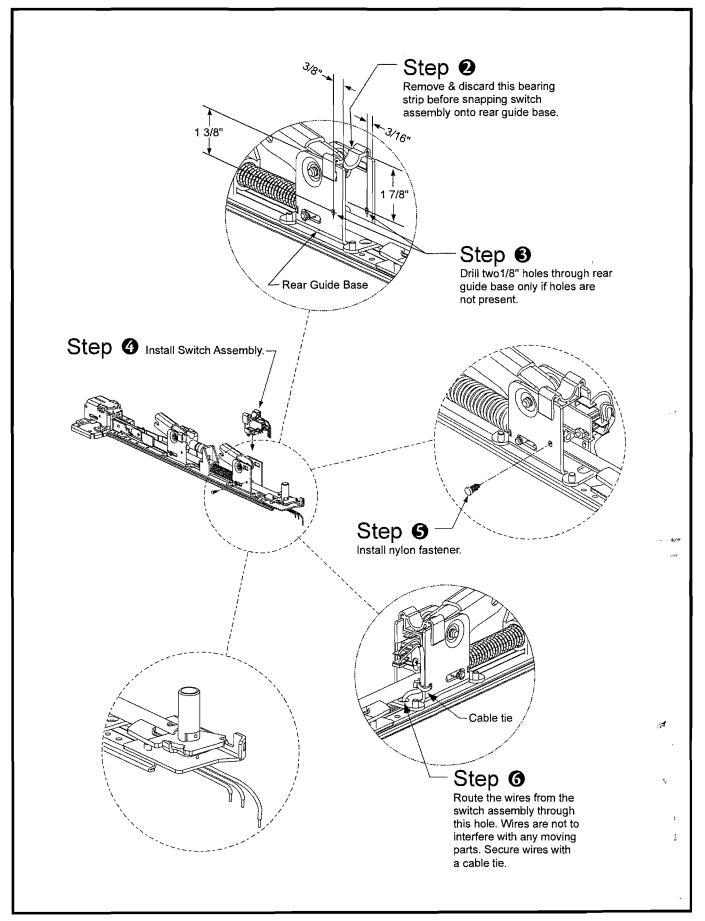
22 Device

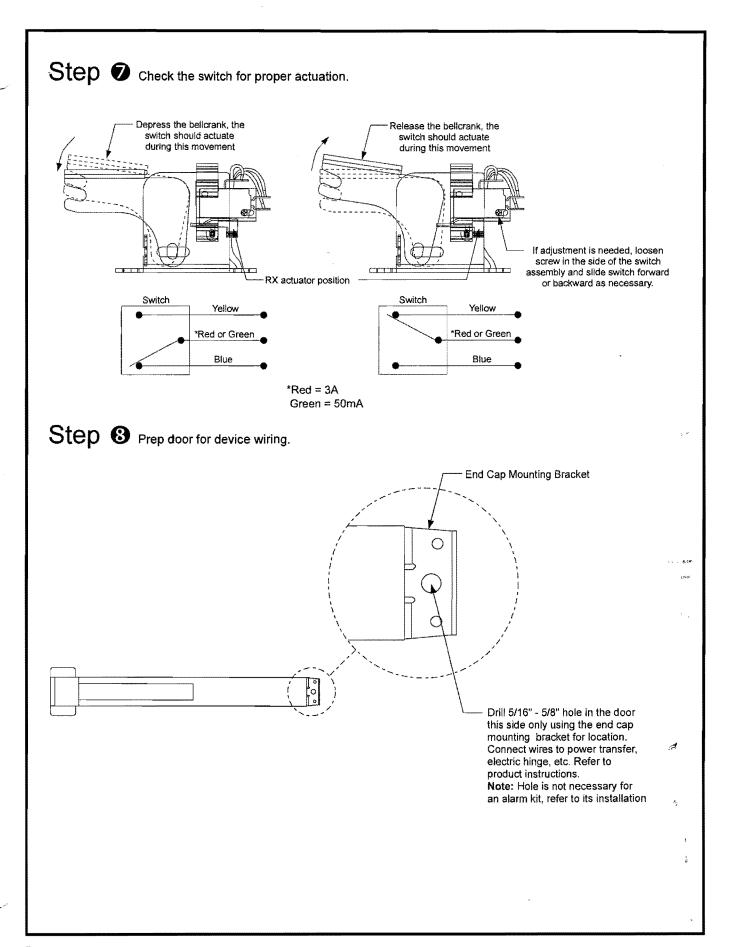






Page 2





Page 4

### 871-2 INSTALLATION

The 871-2 option provides control over two zones. One or two 871-2 boards can be installed on each PS873.

#### **INSTALLATION:**

**Step •** Ensure PS873 breaker is open. (Disconnect batteries if you have this option.)

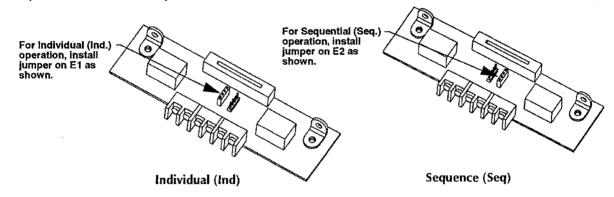
Step 2 Select between individual or sequential outputs.

#### Sequential outputs (factory shipped):

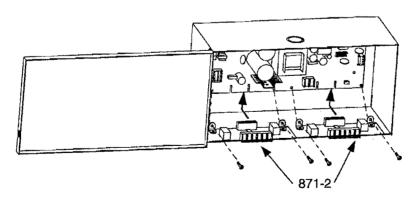
• Input 1 will sequence both outputs. (02 followed by 01)

#### Individual outputs (must be field programmed):

- Input 1 will control output 1.
- Input 2 will control output 2.



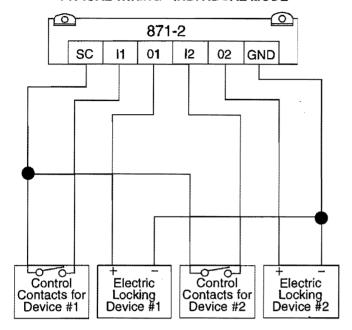
Step 3 Install 871-2 onto either PS873 receptacle as shown.



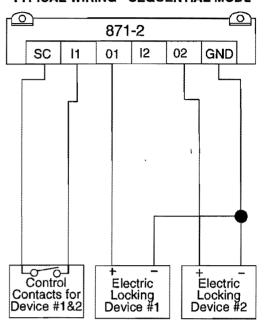
Step 4 Connect inputs and outputs (wire as individual or sequential mode).

NOTE: When using EL type devices (such as EL33, EL99, etc.), then: Use 12 AWG wire, 200 feet maximum, for outputs 01 and 02. Use 18 AWG wire for control contact inputs I1 and I2.

#### **TYPICAL WIRING - INDIVIDUAL MODE**



#### **TYPICAL WIRING - SEQUENTIAL MODE**



Step 6 Apply AC voltage to PS873 and test devices.

# Step 6 Operation Summary

871-2 OPERATION SUMMARY			
871-2 MODE	IF	THEN	
SEQUENTIAL	I1 = 0V I2 = 0V	01 = 0V AND 02 = 0V	
	I1 = 24V	I2 = 24, 01 = 24V AND 02 = 24V	
	I2 = 24V	I1 = 24, 01 = 24V AND 02 = 24V	
	I1 = 0V I2 = 0V	01 = 0V AND 02 = 0V	
INDIVIDUAL	I1 = 0V I2 = 24V	01 = 0V AND 02 = 24V	
	I1 = 24V I2 = 0V	01 = 24V AND 02 = 0V	
	I1 = 24V I2 = 24V	01 = 24V AND 02 = 24V	

ALL DC VOLTAGES REFERENCED TO 871-2 GROUND TERMINAL.

### 871-2 INSTALLATION

The 871-2 option provides control over two zones. One or two 871-2 boards can be installed on each PS873.

#### **INSTALLATION:**

Step • Ensure PS873 breaker is open. (Disconnect batteries if you have this option.)

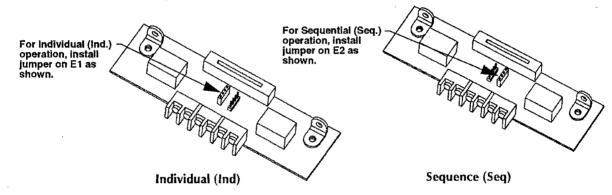
Step 2 Select between individual or sequential outputs.

#### Sequential outputs (factory shipped):

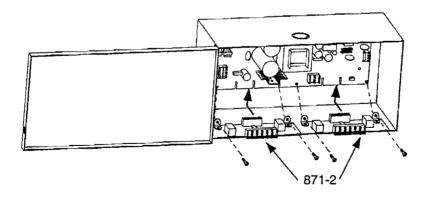
•Input 1 will sequence both outputs. (02 followed by 01)

### Individual outputs (must be field programmed):

- •Input 1 will control output 1.
- •Input 2 will control output 2.



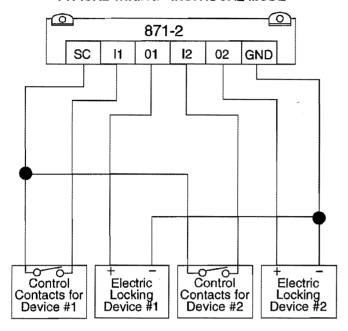
Step 3 Install 871-2 onto either PS873 receptacle as shown.



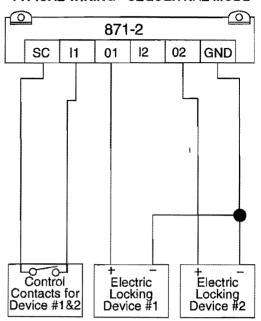
Step 4 Connect inputs and outputs (wire as individual or sequential mode).

NOTE: When using EL type devices (such as EL33, EL99, etc.), then: Use 12 AWG wire, 200 feet maximum, for outputs 01 and 02. Use 18 AWG wire for control contact inputs I1 and I2.

#### TYPICAL WIRING - INDIVIDUAL MODE



#### **TYPICAL WIRING - SEQUENTIAL MODE**



Step 6 Apply AC voltage to PS873 and test devices.

# Step 6 Operation Summary

871-2 OPERATION SUMMARY		
871-2 MODE	IF	THEN
	I1 = 0V I2 = 0V	01 = 0V AND 02 = 0V
SEQUENTIAL	I1 = 24V	I2 = 24, 01 = 24V AND 02 = 24V
	I2 = 24V	I1 = 24, 01 = 24V AND 02 = 24V
-	I1 = 0V I2 = 0V	01 = 0V AND 02 = 0V
INDIVIDUAL	I1 = 0V I2 = 24V	01 = 0V AND 02 = 24V
	I1 = 24V I2 = 0V	01 = 24V AND 02 = 0V
	I1 = 24V I2 = 24V	01 = 24V AND 02 = 24V

ALL DC VOLTAGES REFERENCED TO 871-2 GROUND TERMINAL.