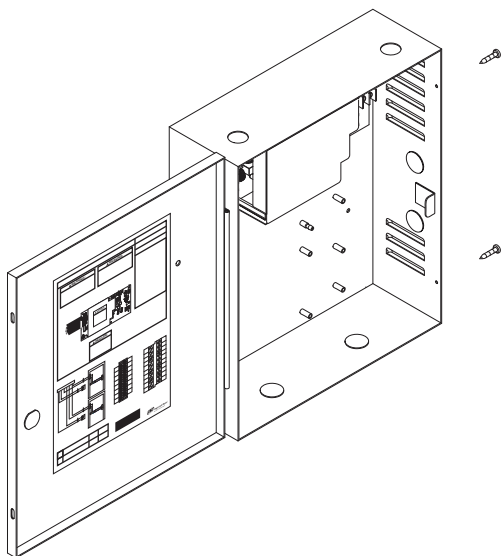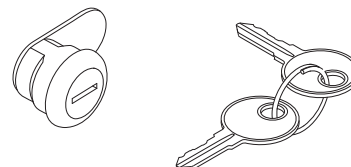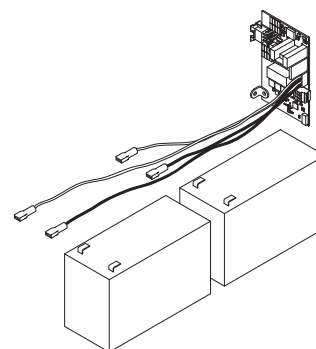| ⚠ **DANGER** ⚠ |
|:---:|
| **To avoid risk of electric shock, turn off AC power before installing or servicing PS904 power supply** |

These instructions cover the following parts:

PS904 Power Supply - Pages 1-3

900-KL Keylock (optional) - Page 2

900-BB Battery Backup (optional) - Page 3

PS904 Power Supply Specifications:

Input	120/240 VAC, 1.7 A, 50/60Hz, High Voltage Class 1 Wiring Required
Output	4 Amp DC @ 12/24 VDC
Enclosure	14" H x 12" W x 4" D (8 knockouts, 1/2" or 3/4")
Temperature Range	32°-120° F (0°- 49° C)
Fuse	F1, T4A 250 VAC
Compliance	UL 294, ULC-S318, RoHS, & FCC Part 15, Class 2 Output
Compatible Boards (Optional, 2 boards maximum)	900-2RS INST. INSTRUCTIONS - 24125007 900-4R INST. INSTRUCTIONS - 44487106 900-4RL INST. INSTRUCTIONS - 44487080 900-8F INST. INSTRUCTIONS - 44487106 900-8P INST. INSTRUCTIONS - 44487106
Fire Alarm Input Board (Optional)	900-FA (Requires one option board above) INST. INSTRUCTIONS - 44487072
Battery Backup Board (Optional)	900-BB INST. INSTRUCTIONS - 44487064

Within the Fuse row, overlaid:

⚠ **CAUTION** ⚠
For protection against risk of fire, replace fuse with same type and rating

Mounting Notes

The PS904 must be installed in accordance with the article 760 of the National Electrical Code or NFPA 72, Canadian Electrical Code, or any other applicable codes.
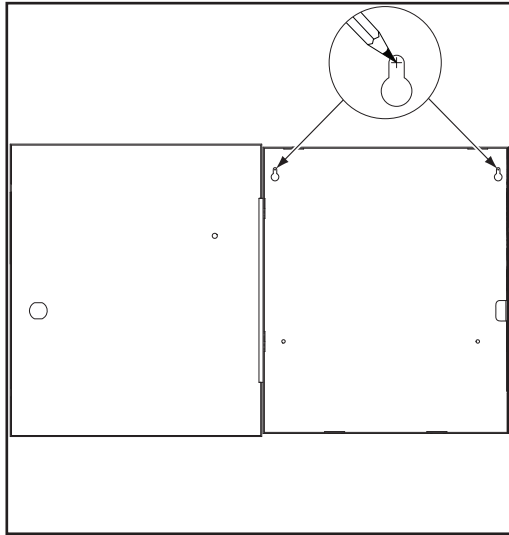
Install the PS904 indoors within the protected premises.

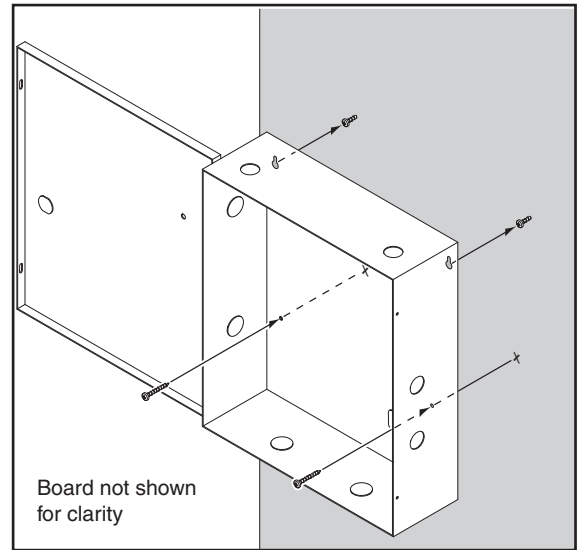Check national and local codes for additional installation requirements.

Enclosure must be firmly mounted to a solid surface using hardware suitable for the surface.

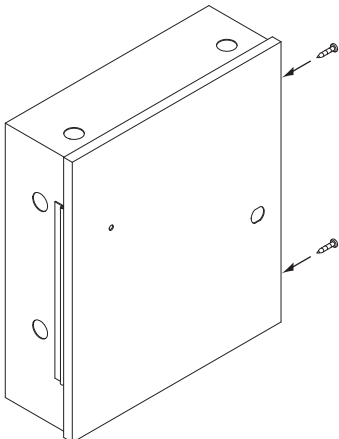## 1   Mount Power Supply

1a   Mark 2 Top Holes

1b   Secure Enclosure with 4 Screws

Board not shown for clarity

2   Secure enclosure door

If No Keylock
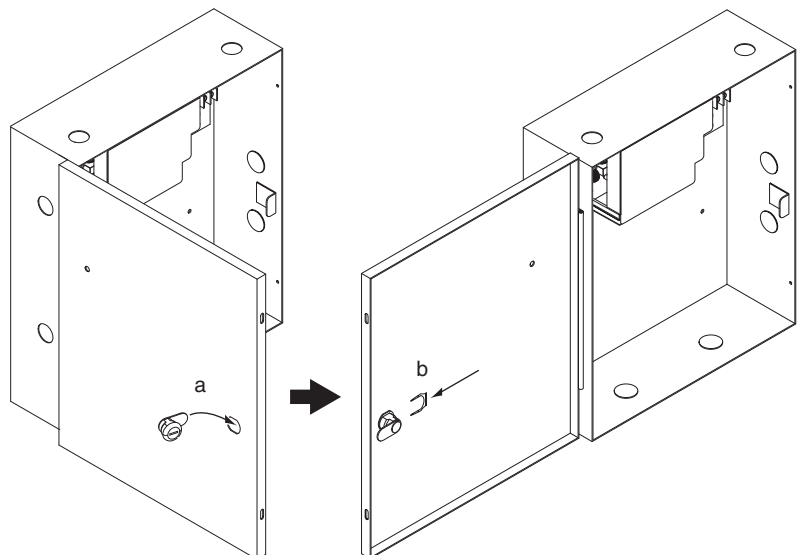
Enclosure will be secured with 2 screws as shown (done as last step)

OR

If Keylock
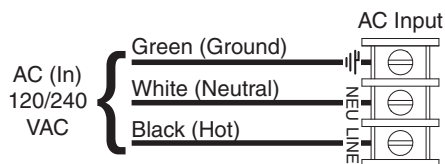
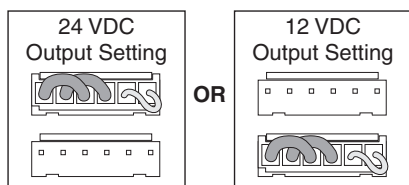Remove knockout and insert key cylinder, then slide in clip
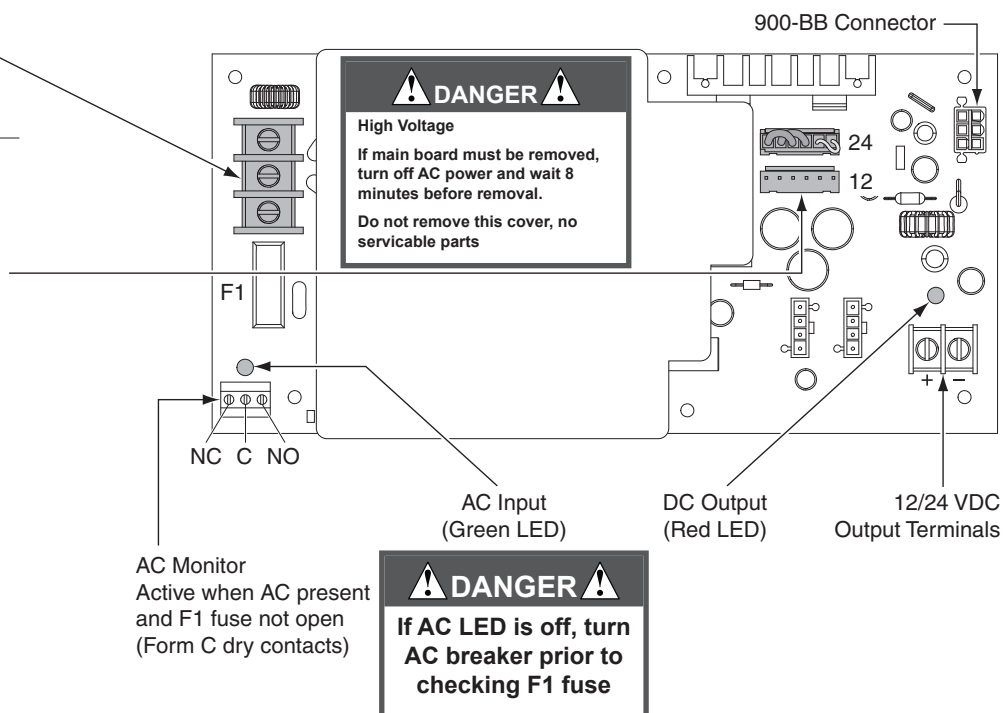

a

b

3a Connect AC Wiring

AC Input

AC (In)
120/240
VAC
{ Green (Ground)
White (Neutral)
Black (Hot)

NEU LINE

⚠ **DANGER** ⚠
Ensure AC breaker is turned off

3b Use Jumper to Select 24 VDC or 12 VDC Output

24 VDC
Output Setting

OR

12 VDC
Output Setting

Note: Minimum of 1/4" separation between AC and DC wiring as well as power limited and non-power limited.

900-BB Connector

⚠ **DANGER** ⚠
High Voltage
If main board must be removed, turn off AC power and wait 8 minutes before removal.
Do not remove this cover, no servicable parts

24

12

F1

NC C NO

AC Monitor
Active when AC present and F1 fuse not open
(Form C dry contacts)

AC Input
(Green LED)

DC Output
(Red LED)

12/24 VDC
Output Terminals

⚠ **DANGER** ⚠
If AC LED is off, turn AC breaker prior to checking F1 fuse

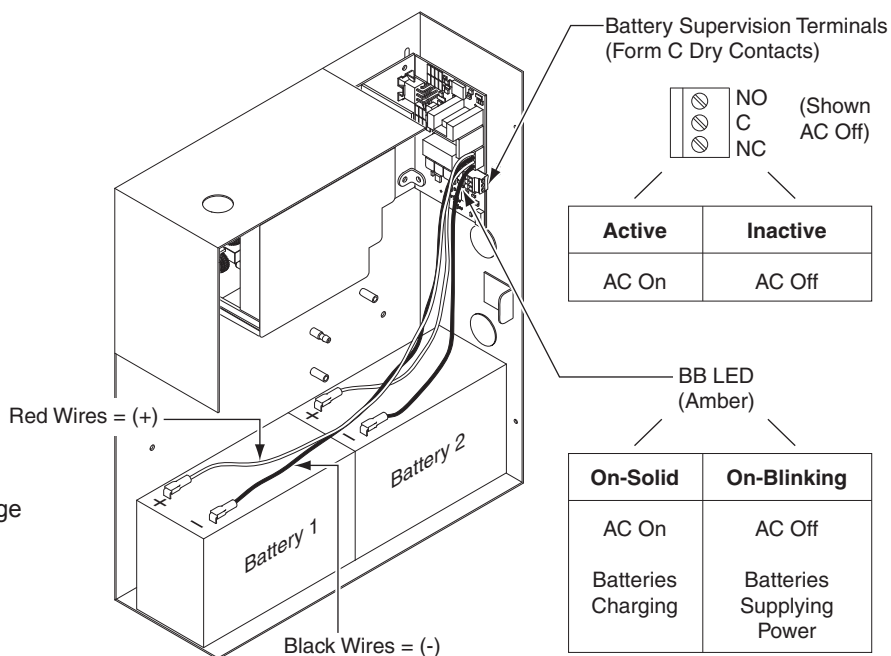**4** Install 900-BB battery backup (if included)

Refer to 900-BB Instructions

1a Place Batteries in Box with Terminals to the Left

Battery Supervision Terminals
(Form C Dry Contacts)

NO
C
NC

(Shown AC Off)

Active	Inactive
AC On	AC Off

1b Attach Wires from Battery Board
Red wires = (+)
Black wires = (-)

Red Wires = (+)

Battery 2

Battery 1

Note: Allow 24 hours for batteries to fully charge

Black Wires = (-)

BB LED
(Amber)

On-Solid	On-Blinking
AC On	AC Off
Batteries Charging	Batteries Supplying Power

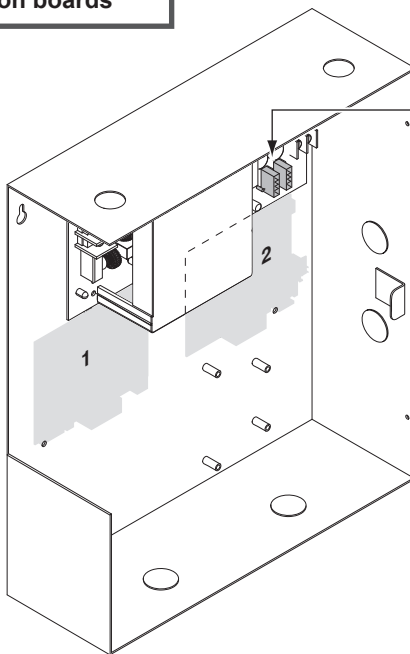Verify AC LED is On = GREEN
Verify DC LED is On = RED
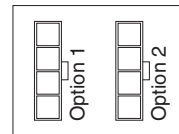Verify BB LED (if applicable) is On = AMBER

Option Boards

Refer to appropriate instructions if any board shown below is factory-installed

⚠ **DANGER** ⚠

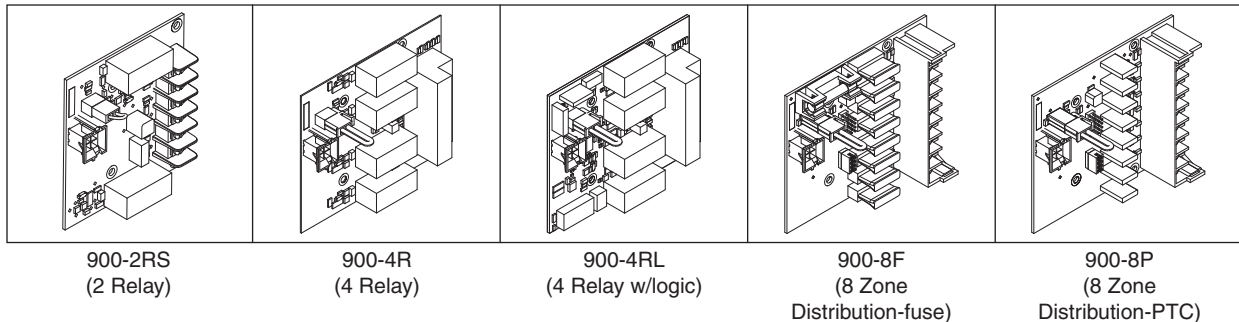**Ensure AC breaker is turned off when installing wiring or option boards**

Option Boards may be Plugged into either Option Connector

Option 1   Option 2

• See option board installation instructions for wiring info

Available option boards:

900-2RS (2 Relay)	900-4R (4 Relay)	900-4RL (4 Relay w/logic)	900-8F (8 Zone Distribution-fuse)	900-8P (8 Zone Distribution-PTC)

Note: When installation is complete, secure enclosure door with screws (provided) or keylock.

Customer Service

1-877-671-7011   www.allegion.com/us
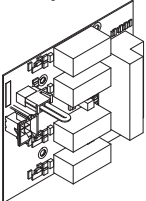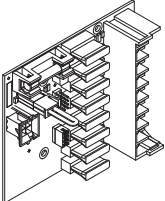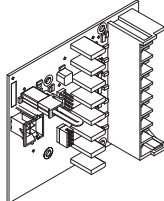
ALLEGION

PS-900 Series
Option Boards

SCHLAGE®

Installation Instructions

⚠ DANGER ⚠

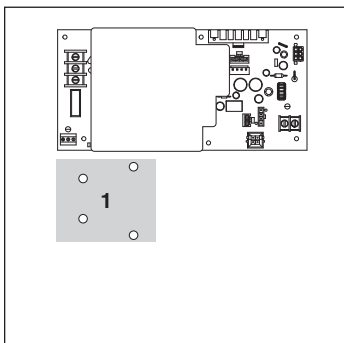**To avoid risk of electric shock, turn off AC power to power supply before installing or wiring option board**

This sheet covers:

900-4R	**900-8F**	**900-8P**
4 Independently Controlled Relays	8 Fuse Protected Outputs	8 PTC Protected Outputs
Page 2	Page 3	Page 4

Refer to installation instructions for compatible supply models - PS902, PS904, PS906, and PS914.
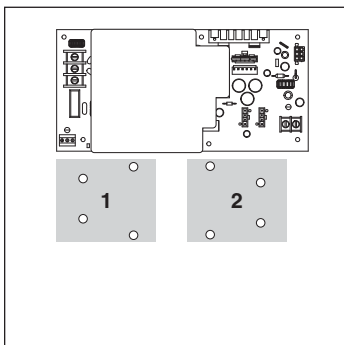
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1 INSTALL OPTION BOARD(S) INTO POWER SUPPLY

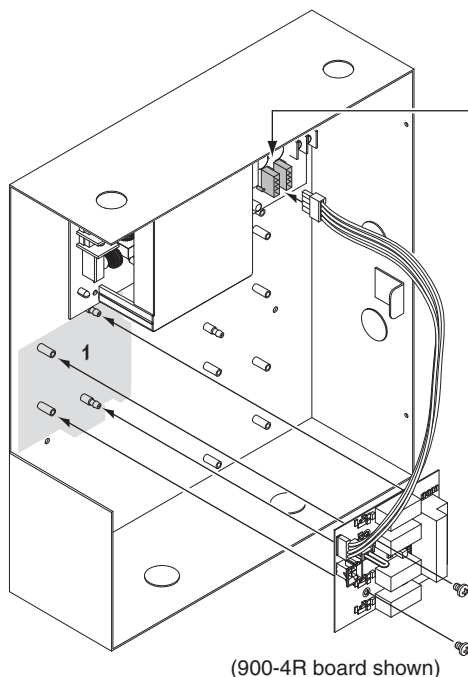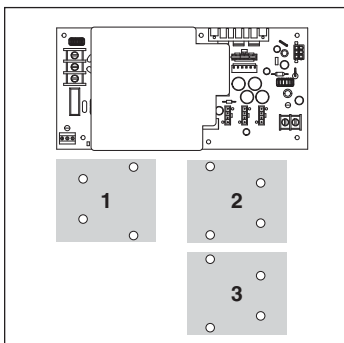**a** **Review Available Board Mounting Locations (gray)**

PS902

PS904
PS914

PS906

(900-4R board shown)
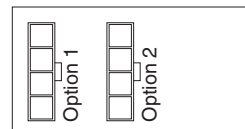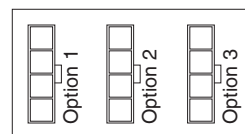
b **Plug Cable into any Available Option Connector**

Option 1 — PS902

Option 1 Option 2 — PS904, 914

Option 1 Option 2 Option 3 — PS906

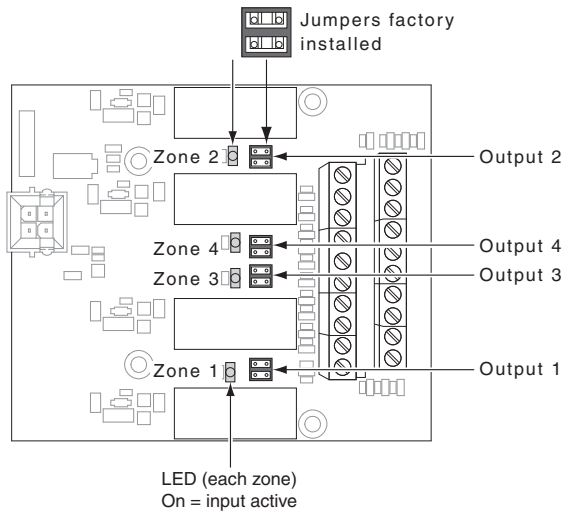**c** **Secure Board(s) with Screws**

900-4R

900-4R Specifications

Inputs I1-I4	Dry contacts required (Closed = Active)
	Connect control contacts between SC (Signal Common) and any input
Outputs O1-O4	• Form C contacts rated 30VDC, 3A (dry) • 12/24VDC, 3A (wet) when AC powered • 9.6-13.2VDC or 19.2-26.4VDC when battery powered • Maximum load cannot exceed power supply ratings or 6A for outputs combined
Board Input Power	Board requires 0.18A max. of power supply output current to operate
Temperature Range	32°-120° F (0°- 49° C)
Compliance	UL 294, ULC-S318, RoHS, & FCC Part 15
Fire Alarm Input	Accepts 900-FA Fire Alarm Board (Optional)

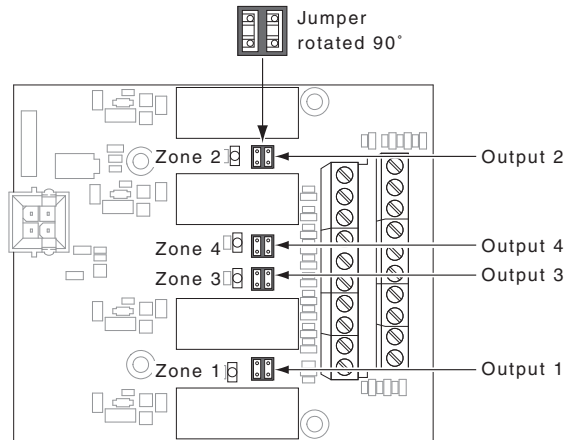Function: Four independent dry-contact inputs control four Form C outputs

Powered Outputs
(Default)
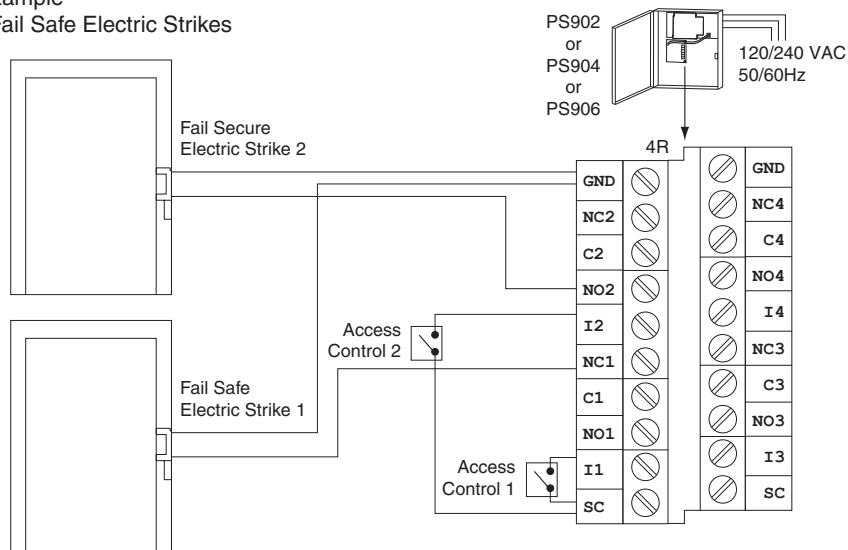
By default, all outputs provide 12/24VDC

Dry Contact Outputs
(Optional)

For dry contact outputs, remove appropriate jumpers and rotate 90˚, then reinstall (Zone 1 - Zone 4)

900-4R Wiring Example
Fail Secure and Fail Safe Electric Strikes

Note:
Fail secure output only allowed if approved
by Authority Having Jurisdiction

Refer to Wire Table
(page 4)

2