

PS914-RFK

VON DUPRIN.

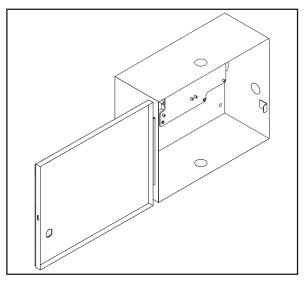
Installation Instructions

These instructions include the following items:

▲DANGER:

To avoid risk of electric shock, turn off AC power before installing or servicing PS914-RFK.

PS914-RFK to be installed by licensed electrician



PS914-RFK can only replace the PS873 and may require one of the following option board configurations:

EXISTING	CROSS REFERENCE			
PS873	PS914-RFK			
PS873 x 871-2	PS914-RFK x 900-2RS			
PS873 x 873-BB	PS914-RFK x 900-BB			
PS873 x 871-2 x 873-FA	PS914-RFK x 900-2RS x 900-FA			
PS873 x 873-FA	PS914-RFK x 900-8F x 900-FA			
PS873 x 873-4TD	PS914-RFK x 900-4RL			
PS873 x 873-AO	PS914-RFK x 900-4RL			
PS873 x 873-SI	PS914-RFK x 900-4RL			
PS873 x 871-2Q	PS914-RFK x 900-2Q			

The following boards are NOT available with the new PS914-RFK:

PS873-AL	n/a
PS873-AC	n/a
PS873-DE	n/a

Input	120/240 VAC, 1.4 A,	120/240 VAC, 1.4 A, 50/60Hz, High Voltage Class 1 Wiring Required			
Output		For use in 2 Amp DC, 12/24VDC May be used to power Von Duprin & Falcon device at 24VDC, 16A, 300ms			
Temperature Range	32°-120° F (0°- 49° 0	32°-120° F (0°- 49° C)			
Fuse	F1, T6.3A, 250VAC	CAUTION: For protection against risk of fire, replace fuse with same type and rating			
Compliance	UL 294, ULC-S318,	UL 294, ULC-S318, RoHS, & FCC Part 15, Class 2 Output			
Compatible Option Boards (2 max)	900-2RS 900-4RL 900-2Q 900-FA/900-8F	INST. INSTRUCTIONS - 44487056 INST. INSTRUCTIONS - 44487080 INST. INSTRUCTIONS - 44487098 INST. INSTRUCTIONS - 44487072 / 44487106			
AC Monitor Output	Form C Contacts, 30VDC, 1 Amp, Resistive Load				







© Allegion 2014 Printed in U.S.A. 44487114 Rev. 01/14-b

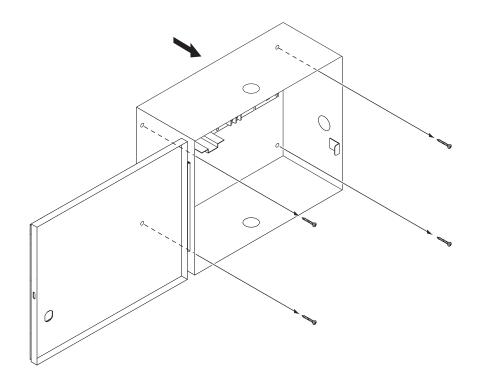
▲DANGER:

Ensure AC Breaker is Turned Off

2 Disconnect AC input from existing PS873 power supply

3 Label all field wiring and then disconnect

4 Remove existing box



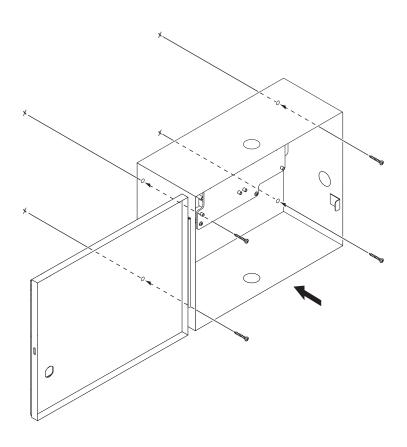
The PS914-RFK must be installed in accordance with the article 760 of the National Electrical Code or NFPA 72, Canadian Electrical Code, or any other applicable codes.

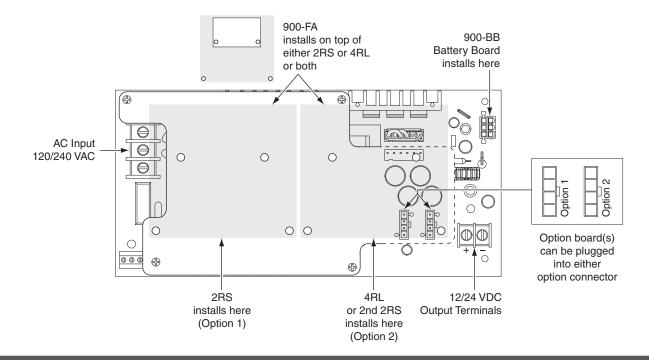
Install the PS914-RFK indoors within the protected premises.

Check national and local codes for additional installation requirements.

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

5 Install PS914-RFK

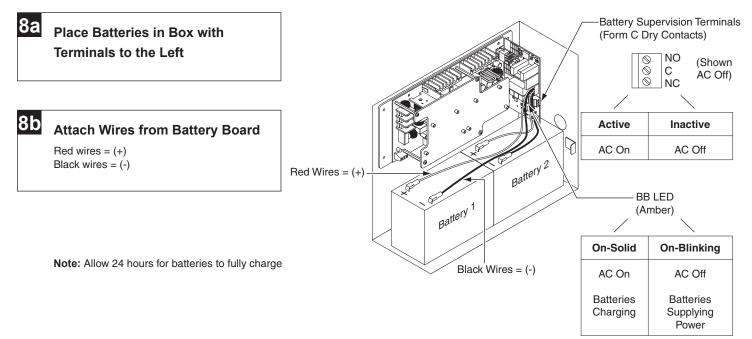




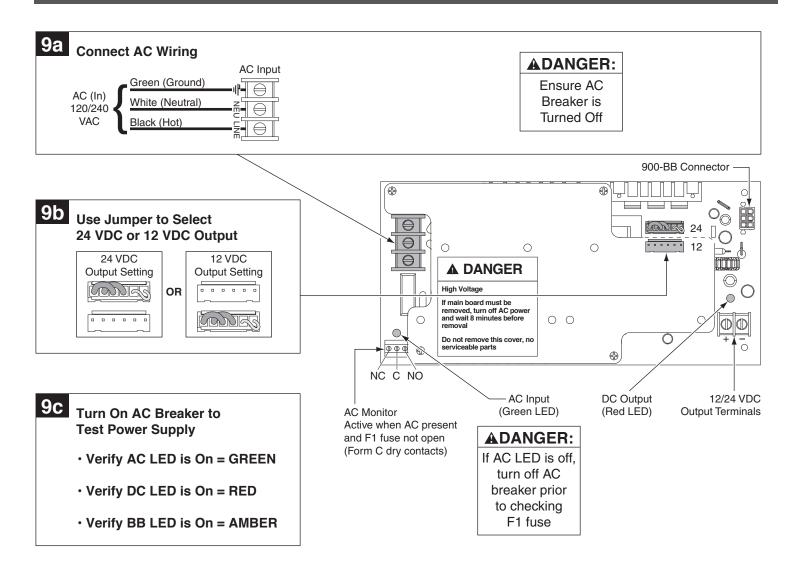
7 Connect field wiring

For 12/24 VDC output terminals, see drawing in Step 6 For 871-2 (900-2RS) option board, see page 5 For 4TD (4RL) option board, see page 6 For AO (4RL) option board, see page 7 For SI (4RL) option board, see page 8

8 Install 900-BB battery backup (if included)

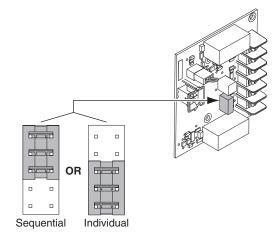


9 PS914-RFK Setup and testing



CONVERSION FROM 871-2 Configuration and Wiring to 900-2RS

a. Determine if 871-2 was configured for Individual or Sequential. For 900-2RS, use jumper to select same function.



b. Connect wiring per table

CROSS REFERENCE FOR WIRING CONNECTION

871-2 OLD	900-2RS NEW
SC	SC
11	11
01	01
12	12
02	02
GND	GND

a. Choose function of 900-4RL board by setting SW2 DIP switches

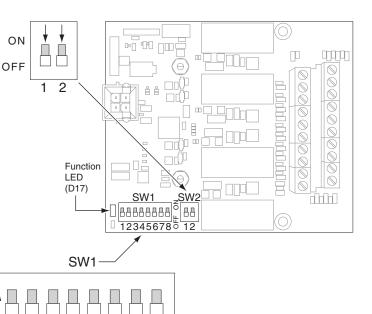
Four Zone Controller Function (4TD):

Controls up to four inputs and four outputs with time delay. This is the default setting.

Function LED will blink one time every 5 seconds.

Summary of Operation

- Output turns "ON" when input is activated (closed).
- Time delay begins when input is released (opened).
- Locking Device output will remain "ON" during time delay.
- If I1-I4 inputs are wired together, outputs will sequence.



b. Set time delay using SW1 DIP switches

DIP switches on SW1 can be turned "ON" by moving them in the direction that the arrow is pointing. Switches are shown here in the "OFF" position.

	SWITCH NUMBER	4TD DIP SWITCH DEFINITIONS All switches shown in "OFF" position in wiring diagram
	1	Turn "ON" to enable time delay for Locking Device 1
Enable Time Delay	2	Turn "ON" to enable time delay for Locking Device 2
Allows you to choose which outputs will have the below time delay.	3	Turn "ON" to enable time delay for Locking Device 3
	4	Turn "ON" to enable time delay for Locking Device 4
Set Time Delay	5	Adds 5 seconds to the time delay when "ON"
(0-75 seconds, 5 second increments)	6	Adds 10 seconds to the time delay when "ON"
0 Sec: Switches 5-8 "OFF" 75 Sec: Switches 5-8 "ON"	7	Adds 20 seconds to the time delay when "ON"
75 Sec: Switches 5-8 ON	8	Adds 40 seconds to the time delay when "ON"

ON

OFF

2 3 4 5 6 7 8

1

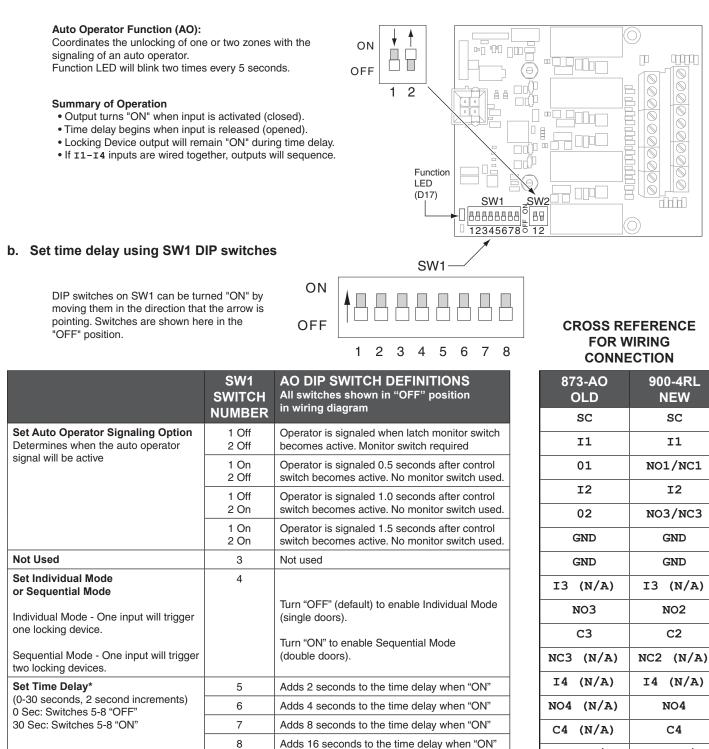
CROSS REFERENCE FOR WIRING CONNECTION

873-4TD OLD	900-4RL NEW	
SC	SC	
11	I1	
01	NO1/NC1	
12	12	
02	NO2/NC2	
GND	GND	
GND	GND	
13	13	
NO3	NO3	
C3	C3	
NC3	NC3	
14	14	
NO4	NO4	
C4	C4	
NC4	NC4	

NO = fail secure output NC = fail safe output

c. Connect wiring per table (at right)

a. Choose function of 900-4RL board by setting SW2 DIP switches



NC4 (N/A) NC4 (N/A)

NO = fail secure output

NC = fail safe output

2nd output signal to auto operator - (not used for PS914-RFK)

c. Connect wiring per table (at right)

a. Choose function of 900-4RL board by setting SW2 DIP switches

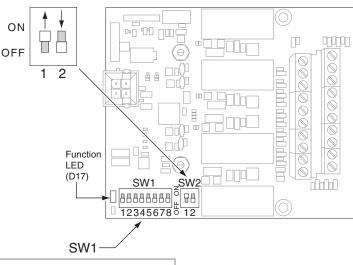
Security Interlock Function (SI):

Controls multi-door interlocks. Two through six door systems are possible (additional boards required for three to six doors.)

Function LED will blink three times every 5 seconds.

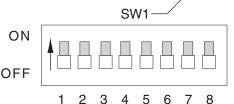
Summary of Operation

- Output turns "ON" when input is activated (closed).
- Time delay begins when input is released (opened).
- Locking Device output will remain "ON" during time delay.



b. Set time delay using SW1 DIP switches

DIP switches on SW1 can be turned "ON" by moving them in the direction that the arrow is pointing. Switches are shown here in the "OFF" position.



4

CROSS REFERENCE FOR WIRING CONNECTION

900-4RL

NEW

SC

11 NO1/NC1

873-SI

OLD

SC

11

01

	SWITCH NUMBER	SI DIP SWITCH DEFINITIONS All switches shown in "OFF" position in wiring diagram
Enable Time Delay Allows you to choose which	1	Turn "ON" to enable time delay for Locking Device 1
outputs will have the below time delay.	2	Turn "ON" to enable time delay for Locking Device 2
Eachte lateriaele	3	Turn "ON" to remove O2 from interlock (Allows a single independent door)
Enable Interlock	4	Turn "ON" for global interlock (interlocks with other SI boards that have this switch "ON")
Set Time Delay (Output Active)*	5	Adds 2 seconds to the time delay when "ON"
Set Time Delay (Output Active)* (0-30 seconds, 2 second increments)	6	Adds 4 seconds to the time delay when "ON"
0 Sec: Switches 5-8 "OFF" 30 Sec: Switches 5-8 "ON"	7	Adds 8 seconds to the time delay when "ON"
30 Sec. Switches 5-8 ON	8	Adds 16 seconds to the time delay when "ON"

GLOBAL INTERLOCK SWITCH SETTING EXAMPLES						
SI Be		SI B #	oard 2	SI Board #3		Application
SW1-3	SW1-4	SW1-3	SW1-4	SW1-3	SW1-4	
Off	Off	Off	Off	Off	Off	Each SI board is a standalone, 2-door interlock.
Off	On	Off	On	Off	On	6-door interlock by setting all boards "global".
Off	On	On	On			A three-door interlock, plus an additional independent door on output 2 of SI Board #2.
Off	On	Off	On	Off	Off	4-Door interlock (SI Board #1,2) and a standalone 2-door interlock (SI Board #3).

12 12 02 NO2/NC2 GND GND GND GND 13 13 NO3 NO3 C3 C3 NC3 NC3 14 14 NO4 NO4 C4 C4 NC4 NC4

NO = fail secure output NC = fail safe output

Connect wiring per table (at right) C.

NOTE: WHEN INSTALLATION IS COMPLETE, SECURE ENCLOSURE DOOR WITH SCREW OR KEYLOCK