

### Smok-Chek® VI Installation and Instruction Manual

ASSA ABLOY







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### Operator Mounting

3



#### **Closer Mounting** Δ Install remaining 6 mounting screws through back plate and tighten all four screws (d). Pull wiring through 0 0 $(\mathbf{X})$ holes (if concealed wired). Ο For Concealed Wired Only (If surface wired, see page 13-15)



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#### Electrical Connections

### See Page 13 for Non-Detectored Units See Page 14 for Detectored Units See Page 15 for RF Units

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5/32" hex wrench

#### Selective Hold Open Cam Adjustment



- Make all required electrical connections and turn power switch to on for nondetectored units (detectored units cannot be turned off at the closer). (See previous step)
- Open door to desired hold open angle.
- · Loosen cam screw and rotate cam until switch closes and door holds open.
- Rotate cam until it touches the switch.
- Tighten cam screw but do not over torque as this will cause damage to cam.
- · Force door out of hold open by closing the door, then test hold open by opening to hold open angle again.

SHO switch in

open position.

Closer not in

hold open.



O



Attach Cover



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#### Prepare Frame

1





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#### **Closer Mounting**

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#### **Arm Mounting**



#### 6 Attach Arm

Attach with provided screw and washer. Tighten arm screw with 5/32" hex wrench.





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### OCloser Adjustments



#### )Electrical Connections

See Page 13 for Non-Detectored Units See Page 14 for Detectored Units See Page 15 for RF Units

#### $\mathbf{2}$ )Selective Hold Open Cam Adjustment

#### **Setting Hold Open Angle**



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# NON-DETECTORED ELECTRICAL CONNECTIONS

- Power input to unit must be of the same voltage as that listed on the label.
- All wiring connections use standard wiring practice conforming to local wiring codes.
- Maximum wire size is 18AWG.
- Make input power connections to the terminal block or power supply using illustrations below.

### Surface mount power input:

Remove appropriate shaded area from cover for surface wired installations only. Repaint cut edges as necessary to prevent corrosion.



**Stand-Alone wiring instructions below.** (To incorporate other devices, see included wiring instruction manual: 80-9342-0904-000)

### **120V AC INPUT**

Make power connections as shown below.



#### 24V DC INPUT

Make power connections as shown below.





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# SMOKE DETECTOR ELECTRICAL CONNECTIONS

- Power input to unit must be of the same voltage as that listed on the label.
- All wiring connections use standard wiring practice conforming to local wiring codes.
- Maximum wire size is 18AWG.
- Make input power connections to the terminal block or power supply using illustrations below.

### Surface mount power input:





**Stand-Alone wiring instructions below.** (To incorporate other devices, see included wiring instruction manual: 80-9342-0904-000)

### **120V AC INPUT**

Make power connections as shown below.



### 24V AC/DC INPUT

Make power connections as shown below.



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24VDC Input

Power Only



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## **RF REMOTE RECEIVER UNITS ELECTRICAL CONNECTIONS**

- Power input to unit must be of the same voltage as that listed on the label.
- All wiring connections use standard wiring practice conforming to local wiring codes.
- Maximum wire size is 18AWG.
- Make input power connections to the terminal block or power supply using illustrations below.

### Surface mount power input: Remove appropriate shaded area from cover for surface wired installations only. Repaint cut edges as necessary to prevent corrosion.

### **120V AC INPUT**

Make power connections as shown below.



#### 24V AC/DC INPUT

Make power connections as shown below.











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# **PROGRAMMING RF REMOTE RECEIVER UNITS**

#### **DIP SWITCH SETTINGS**

#2

OFF

ON

# 1	DESCRIPTION	FUNCTION
OFF	Pulse Relay	Press the transmitter once and the relay will be active momentarily.
ON	Toggle Relay	Press the transmitter once and the relay output is active indefinitely, press it again and the relay will de-energize indefinitely.

FUNCTION (Pulse Mode Only)

PUL TOG	

In Toggle Setting (1-ON), the Hold Time is inactive. Either setting for #2 dip switch will have the same result.

PUL TOG	PUL TOG	
1 0	1 0	
0.5s110s	0.5s 1 10s	
0.5 second	10 second	
Pulse Setting	Pulse Setting	



#### HAND HELD CONFIGURATION

DESCRIPTION

0.5 sec Hold Time

10 sec Hold Time

- 1. Set dip switches on the receiver to the desired activation cycle (dip switch 1 Toggle or Pulse and dip switch 2 0.5s or 10s hold).
- Press either Learn w/Delay Button or Learn w/No Delay Button on the receiver depending on the activation requirements (If delay learn is selected, adjust potentiometer to counterclockwise limit, 0 second delay). After learn cycle is complete, adjust potentiometer to desired delay time (0-30 sec).

Relay will remain active 0.5 second after the loss of activation.

Relay will remain active 10 seconds after the loss of activation.

- 3. Depress transmitter button repeatedly until Blue LED on the receiver illuminates (indicating reception of signal from transmitter). NOTE: Repeat Steps 2-3 to program additional transmitters.
- To test the system, depress transmitter button (Red LED on Transmitter will illuminate) and observe that the Blue LED illuminates on the 4 receiver. This indicates that the relay has been activated.

#### PUSH PLATE CONFIGURATION

- 1. Before beginning, it is easiest to have already prepared the installation of the pushplate.
- Connect the wires from the transmitter to the NO and COM contacts of the pushplates switch. 2
- 3. Follow Steps 1-4 (Hand-Held Configuration); depress the pushplate to activate the transmitter.
- Attach the transmitter to the inside of the electrical box and complete the installation. 4.

#### **REMOVING TRANSMITTER CODE(S)**

#### SINGLE TRANSMITTER CODE

- 1. Press both DELAY and NO DELAY BUTTONS simultaneously until Red LED flashes once (approximately 1 second).
- 2. Press transmitter button twice within 10 seconds and the transmitter code will be deleted.
- ALL TRANSMITTER CODES
  - 1. Press and hold both DELAY and NO DELAY BUTTONS simultaneously until Blue LED illuminates then release (approximately 10 seconds)

### Troubleshooting

DETECTORED AND NON-DETECTORED UNITS						
SYMPTOMS	PROBABLE CAUSE	CORRECTIVE ACTION				
Door does not hold open.	No power to unit. Loose wire connection. Cam switch not engaged.	Check input voltage: 24VDC or 120VAC Inspect wiring for loose connections. Adjust Cam position (see pg. 6 or 11)				
Door holds open but at the wrong angle.	Cam switch engaged too early or too late. Cam switch shorted.	Adjust Cam position (see pg. 6 or 11) Inspect Cam switch wiring for short circuit.				
Door not closing when Test/Reset switch depressed. (Detectored units only)	Wiring incorrect. Short circuit across Test/Reset switch.	Inspect wiring (see pg.13-15). Inspect Test/Reset switch for short circuit.				

#### **RF UNITS** SYMPTOMS **PROBABLE CAUSE** CORRECTIVE ACTION Disconnect each push plate or remove batteries until Red LED flashes on RF unit and can't program Push plate stuck or faulty transmitter. LED goes out. Replace faulty push plate. receiver. Receiver intermittently doesn't receive the Add 6 3/4' lengths of wire to antenna until it receives Receiver antenna wire is too short transmitter signal. signal.

For problems not listed here, see page 16 for Technical Product Support Contact info.



### General Information





Preparation for Fasteners						
Fasteners Door or Frame Drill-Sizes						
	1/4" - 20 machine screw	Metal	Drill: #7 (0.201" dia.) Tap: 1/4" - 20			
	Self tapping screw (Track screws only)	Metal / Wood	Pre-Drill: 9/64 hole			
Standard	Self tapping screw (Closer mounting screws only)	Metal / Wood	Pre-Drill: 3/16 hole			
	Sleeve nuts and bolts (Shoe screws only)	Hollow Metal	9/32" (7 mm) through; 3/8" (9.5 mm) door face opposite to closer			
		Aluminum or Wood	3/8" (9.5 mm) through			
Optional	Through-bolts and grommet-nuts	All	9/32" (7 mm) thru; 3/8" (9.5 mm) dia. x 3/8" (9.5 mm) deep on door opposite to closer			



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UL228, UL10B