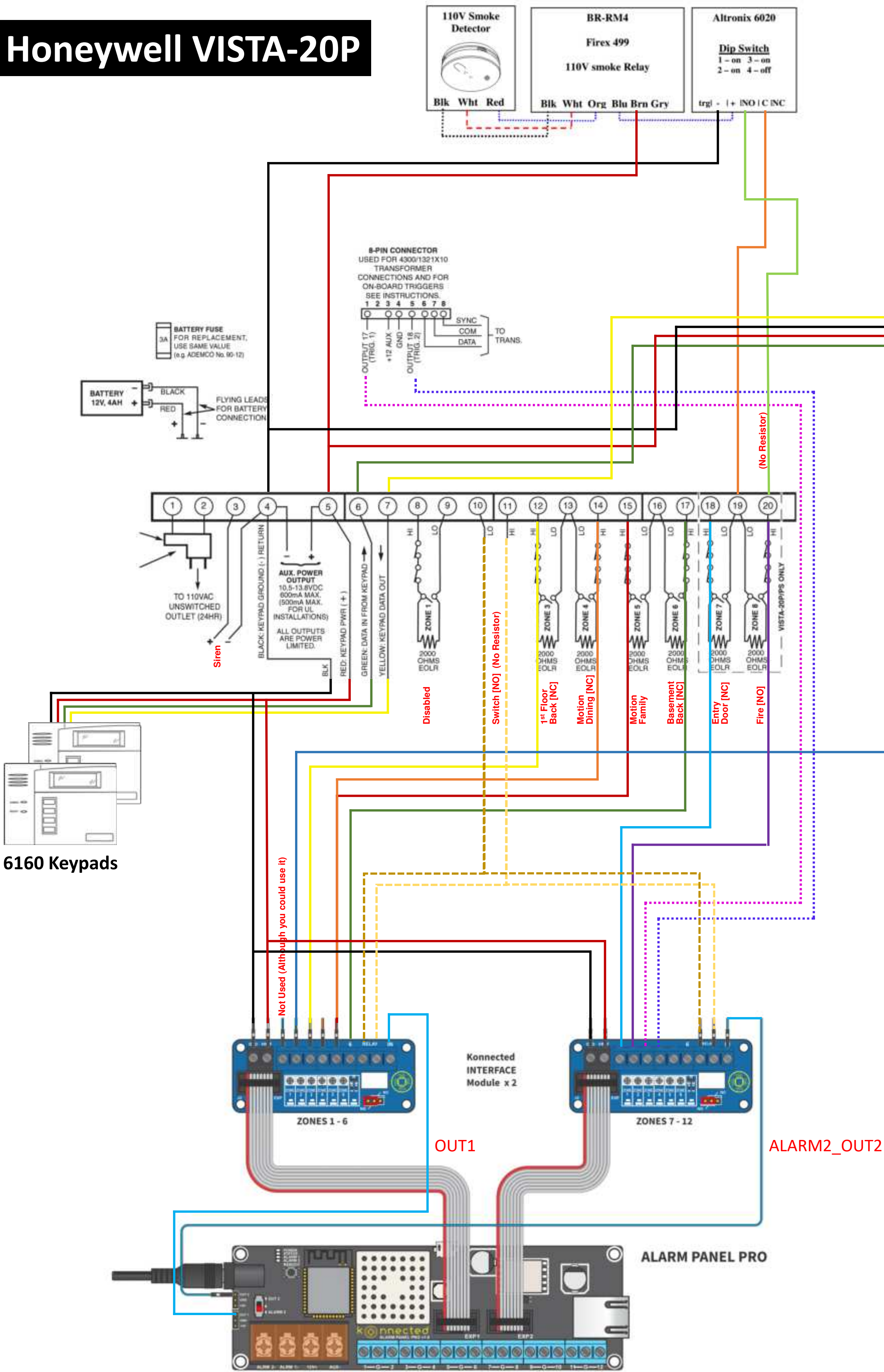
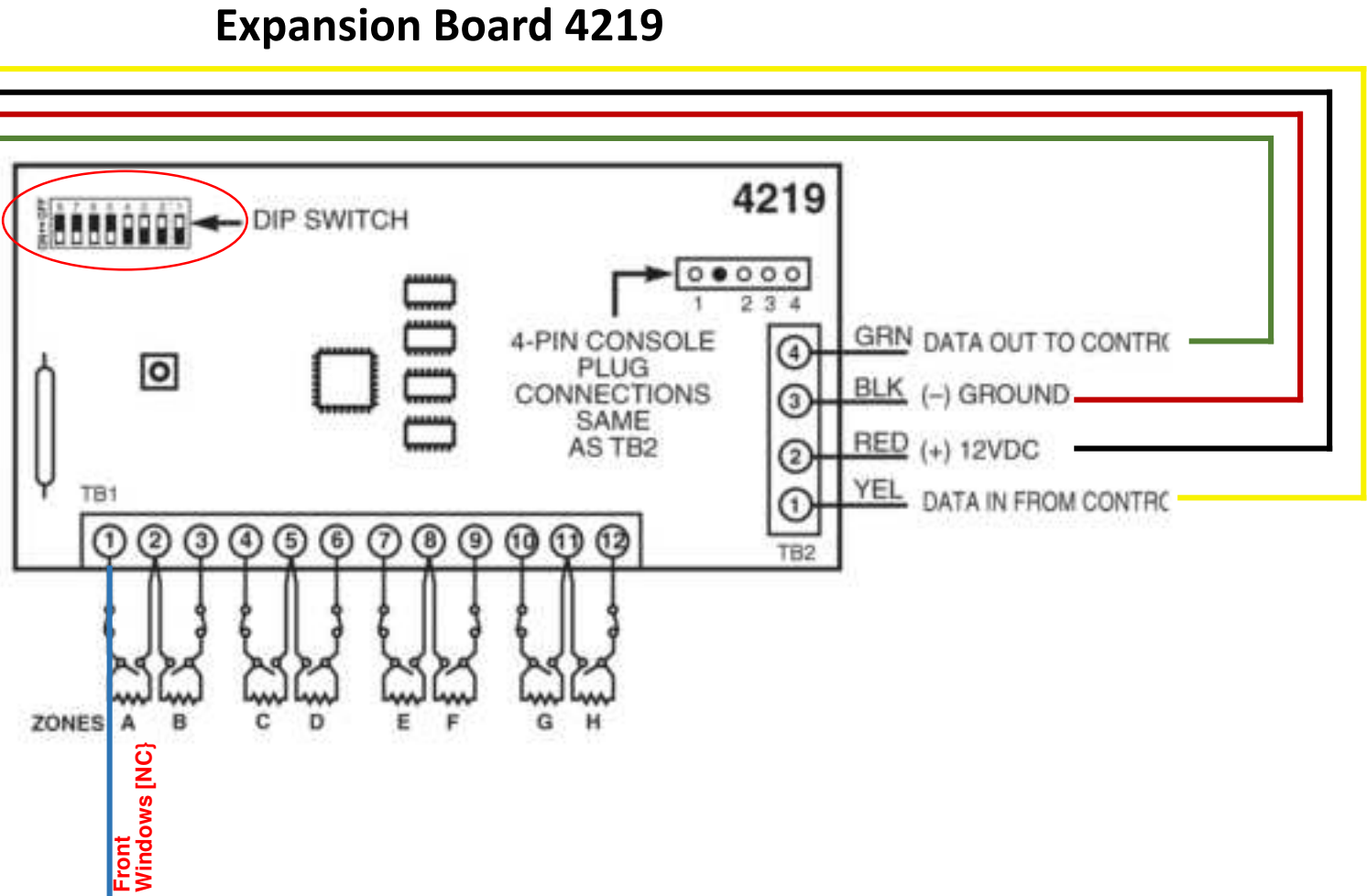


Honeywell VISTA-20P



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Project Goal

1. Implement a self-monitoring alarm system using mainstream products.
2. Integrate smoke detectors into alarm so I would be notified if a smoke detector activated. Note: Disarming the system does not silence the smoke detectors.
3. Keep existing alarm system in place.

System Configuration

1. Honeywell VISTA-20P [WA20P-10.24]
2. Honeywell 6160RF Alpha Keyboard
3. Honeywell 6160 Alpha Keyboard
4. Honeywell 4219 - 8 Zone Wired Expansion Module
5. Konnected Alarm Panel Pro 12-Zone Interface Kit
6. First Alert RM4 Smart Relay (BR-RM4)
7. Altronic 6062 Multi-Function Timer
8. Samsung SmartThings App (New Version)

Follow these instructions carefully.
Honeywell/Ademco VISTA Series Setup & Configuration
<https://help.konnected.io/support/solutions/articles/32000028776-honeywell-ademco-vista-series-setup-configuration>

STEP 1

Program Triggers 1 and 2 to indicate armed/disarmed status and alarm triggered status

- 1 Connect the first pin (indicated as OUTPUT 17 / TRIG 1 in the diagram) and the fourth pin (indicated as OUTPUT 18 / TRIG 2 in the diagram) to two zones on the Konnected Interface module with female-to-male jumper wires.
- 2 Enter panel programming mode using the alpha keypad:
[INSTALLER CODE] 800 *
- 3 Set both outputs 17 and 18 to normally low with the following sequence:
*79 › enter the output mapping menu
17* › output #17
1* › set to normally low
18* › output #18
1* › set to normally low
00 › save and exit
- 4 Program output 17 to trigger high when the system is set in armed/stay:
*80 › enter the output programming menu
01* › first program slot
* › continue
2* › activated by zone type
20* › zone type 20 means arm-stay
0* › any partition
2* › stay closed
17* › output #17
- 5 Program output 17 to also trigger high when the system is set in armed/away:
* › return to output programming menu
02* › second program slot
* › continue
2* › activated by zone type
21* › zone type 21 means arm-away
0* › any partition
2* › stay closed
17* › output #17
- 6 Now, program output 17 return to low when the system is disarmed:
* › return to output programming menu
03* › third program slot
* › continue
2* › activated by zone type
22* › zone type 22 means disarmed
0* › any partition
0* › open
17* › output #17
- 7 Moving on to the second output, program output 18 to trigger high when there is an alarm:
* › return to output programming menu
04* › fourth program slot
* › continue
2* › activated by zone type
33* › zone type 33 means burglar alarm
0* › any partition
2* › stay closed
18* › output #18
- 8 Finally, program output 18 to return low when the alarm is disarmed:
* › return to output programming menu
05* › fifth program slot
* › continue
2* › activated by zone type
22* › zone type 22 means disarmed
0* › any partition
0* › open
18* › output #18
- 9 When finished programing, exit:
00 › exit the menu
*99 › exit installer mode

STEP 2

Programming the Keyswitch Zone

For this example, we'll use Zone 2 as our keyswitch zone, but you can use any available zone.

1. Enter panel programming mode using the alpha keypad:
[INSTALLER CODE] 800 *
2. Program Zone 2 as a keyswitch zone.
*56 › enter zone programming mode
0 › no confirmation
08* › select zone 2
* › continue
77* › zone type 77 means keyswitch
1* › partition 1
* › skip report code
1* › (only on zones 2-8) set hardwire type to 2 (Normally Open) to not need a resistor
* › confirm response time
* › confirm summary
* › skip program alpha
3. When finished programing, exit:
00 › exit the menu
*99 › exit installer mode

STEP 3

In the Konnected App
Screen Shots from v 1.1.1.



Navigate to Manage Zones and click “+” to add a new zone

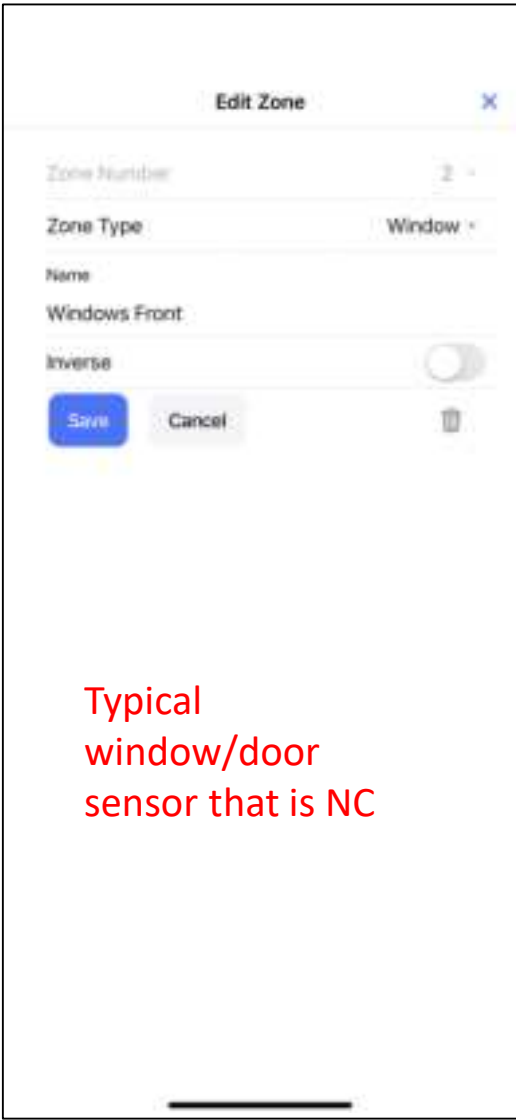
Note: I purchased the Konnected Alarm Panel Pro 12-Zone Interface Kit. This is why there are 12 zones listed along with the relays

List of Zones to Add

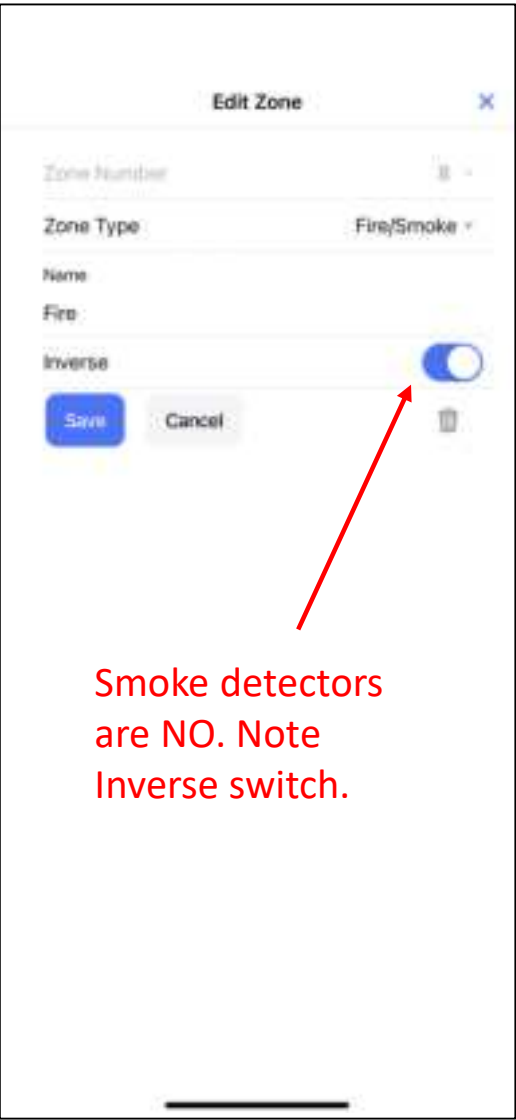


STEP 3 (Cont.)

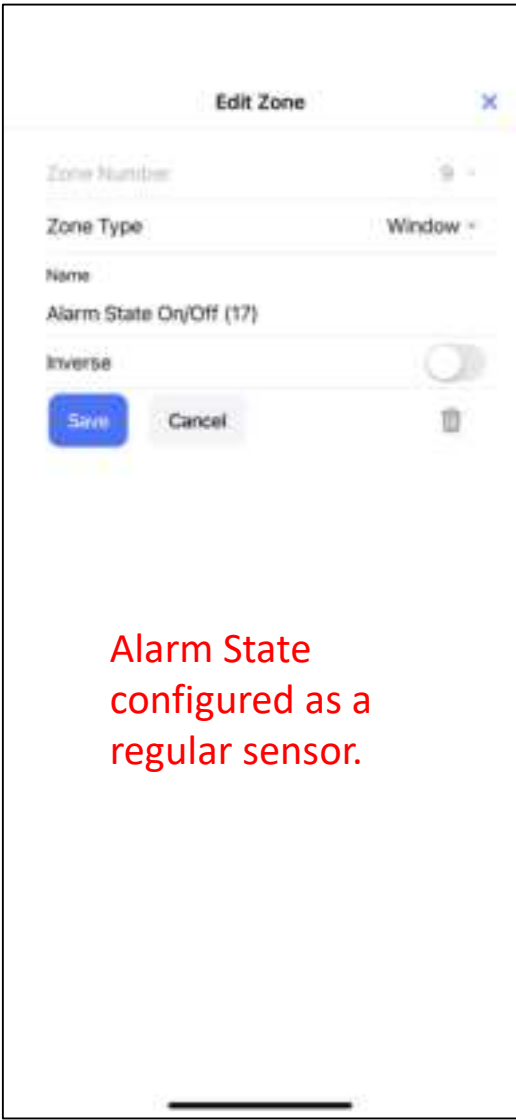
Setting up the Zones in Konnected App



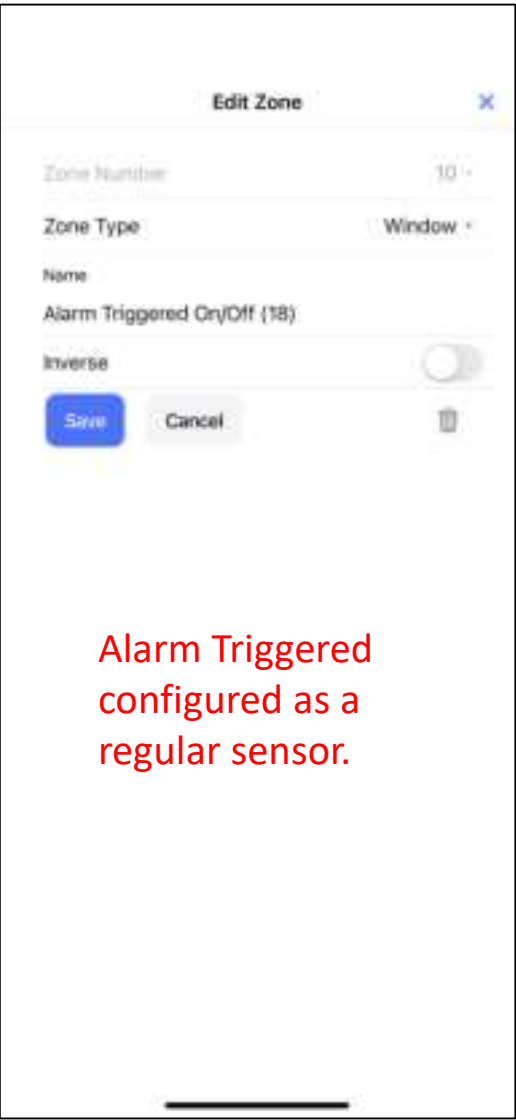
Typical window/door sensor that is NC



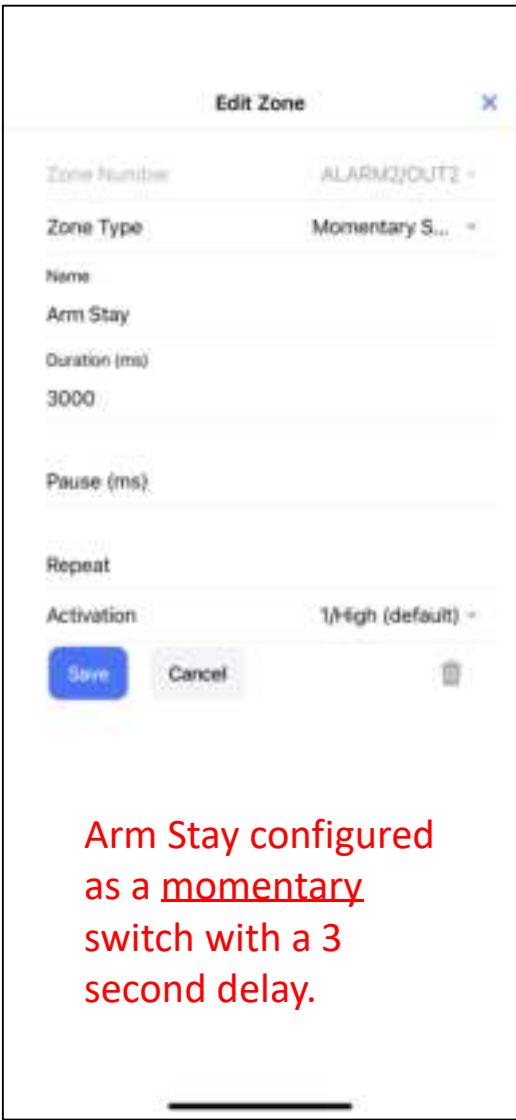
Smoke detectors are NO. Note Inverse switch.



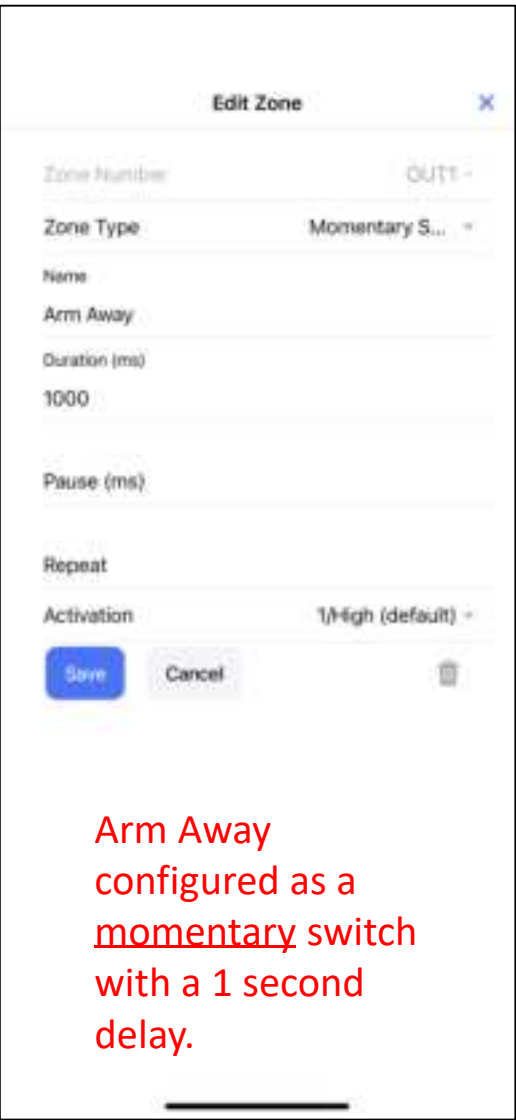
Alarm State configured as a regular sensor.



Alarm Triggered configured as a regular sensor.



Arm Stay configured as a momentary switch with a 3 second delay.

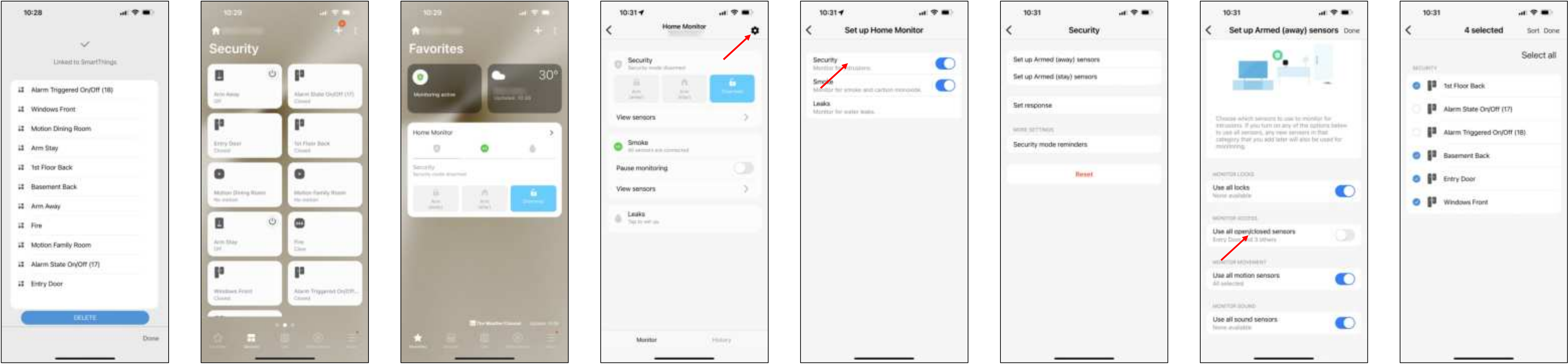


Arm Away configured as a momentary switch with a 1 second delay.

STEP 4 SmartThings

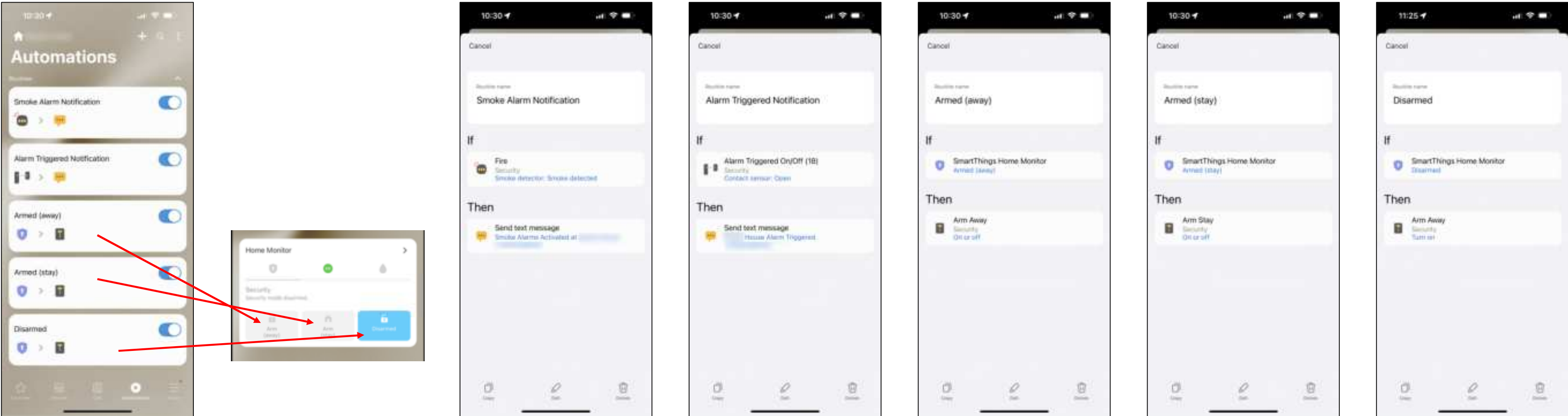
Scroll to Devices and scroll to bottom and look for Konnected. Follow steps to link the account.

- 1.) List of all zones displayed after linking the account
- 2.) All zones setup in Konnected should display
- 3.) Look for Home Monitor. You need to go in and assign sensors for Arming
- 4.) Go to settings
- 5.) Select Security
- 6.) Select Armed Away sensors (follow same steps 7. and 8. for Armed Stay)
- 7.) Scroll down to Use all open/closed sensors and select. (Slide switch to Left so grayed out)
- 8.) Select sensors associated with Armed Away. (Smoke are on all the time and are not shown in this menu)



Program the following Automations

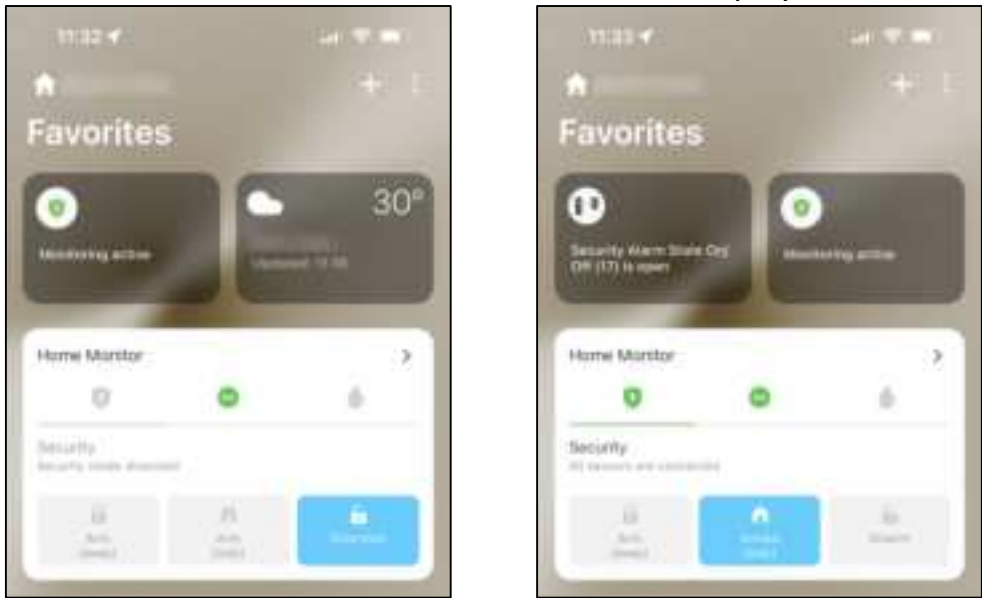
- 1.) I set up alerts for when smoke detectors go off, and for when the alarm is triggered. The other 3 automations allow you to arm and disarm from Home Monitor Buttons.
- 2.) Settings for Smoke Alert
- 3.) Settings for Alarm Triggered
- 4.) Settings for Alarm (away)
- 5.) Settings for Alarm (stay)
- 6.) Settings for Disarmed. NOTE: Executing the Arm Stay or Away will work. used away as it is a 1 second signal.



STEP 5

Give it a try!!

- 1.) Before Armed.
- 2.) After clicking the Armed Away button. Note device is displayed.



Some NOTES:

- 1) If the alarm has been triggered, the triggered device will show and you should get text alerts. You can also visit History in the Samsung app to see all activity.
- 2) Shortcomings of Home Monitor I am still trying to find a solution for:
If Alarm Trips Example: Click Armed Stay, trip alarm, and click disarm to silence alarm. If you click Armed Stay in Home Monitor, the action clears the fault and the Armed Stay button goes blue. But the alarm does not arm. So if you click Disarm, that activates the Armed Stay because it uses the same button to Arm the alarm. The only way to get the button back in sync is to go to devices and Click the Armed Stay device. The Automations in Smart Things can't do any nested IF/THEN conditions to test out. Anybody have a solutuion? Looking to clear fault codes maybe through a programmed relay??

APPENDIX

Individual spec sheets of the additional components used in this system

24-HR BATTERY STANDBY REQUIRED FOR FIRE INSTALLATIONS. USE 12V, 17.2AH BATTERY FOR 600mA AUX POWER. SEE INSTRUCTIONS.

BATTERY CAPACITY FOR EMERGENCY BURGLARY STANDBY USE AT LEAST 4 HRS

CHARGING VOLTAGE 13.8VDC. MAXIMUM CHARGING CURRENT 650mA.

SEALED LEAD-ACID TYPE.

BATTERY NORMALLY NEED NOT BE REPLACED FOR AT LEAST 3 YRS.

TO DETERMINE TOTAL STANDBY LOAD ON BATTERY, ADD 100mA TO TOTAL OF AUX. POWER OUTPUT AND REMOTE KEYPAD CURRENTS.

USE UL LISTED LIMITED ENERGY CABLE FOR ALL CONNECTIONS

CLASS 2 PLUG-IN TRANSFORMER
16.5VAC, 25VA
(e.g. ADEMCO No. 1321).
(USE No. 1321CN IN CANADA)

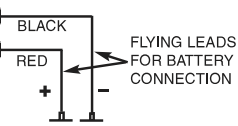
USE 4300 / 1321X10 TRANSFORMER INTERFACE IN PLACE OF 1321 OR 1321CN WHEN POWER LINE CARRIER DEVICES ARE BEING USED. (SEE INSTRUCTIONS FOR CONNECTIONS)

THIS EQUIPMENT SHOULD BE INSTALLED IN ACCORDANCE WITH THE NATIONAL FIRE PROTECTION ASSOCIATION'S STANDARD 72, CHAPTER 2 (NATIONAL FIRE PROTECTION ASSOCIATION, BATTERY-MARCH PARK, QUINCY, MA 02269).
PRINTED INFORMATION DESCRIBING PROPER INSTALLATION, OPERATION, TESTING, MAINTENANCE, EVACUATION PLANNING AND REPAIR SERVICE IS TO BE PROVIDED WITH THIS EQUIPMENT.

CONNECTION OF THE FIRE ALARM SIGNAL TO A FIRE ALARM HEADQUARTERS OR A CENTRAL STATION SHALL BE PERMITTED ONLY WITH THE PERMISSION OF THE LOCAL AUTHORITY HAVING JURISDICTION. THE BURGLAR ALARM SIGNAL SHALL NOT BE CONNECTED TO A POLICE EMERGENCY NUMBER.

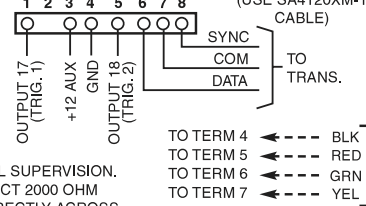
BATTERY FUSE
FOR REPLACEMENT,
USE SAME VALUE
(e.g. ADEMCO No. 90-12)

BATTERY
12V, 4AH



RED JUMPER
CUT FOR BELL SUPERVISION.
ALSO, CONNECT 2000 OHM RESISTOR DIRECTLY ACROSS SOUNDER.

8-PIN CONNECTOR
USED FOR 4300/1321X10 TRANSFORMER CONNECTIONS AND FOR ON-BOARD TRIGGERS. SEE INSTRUCTIONS.



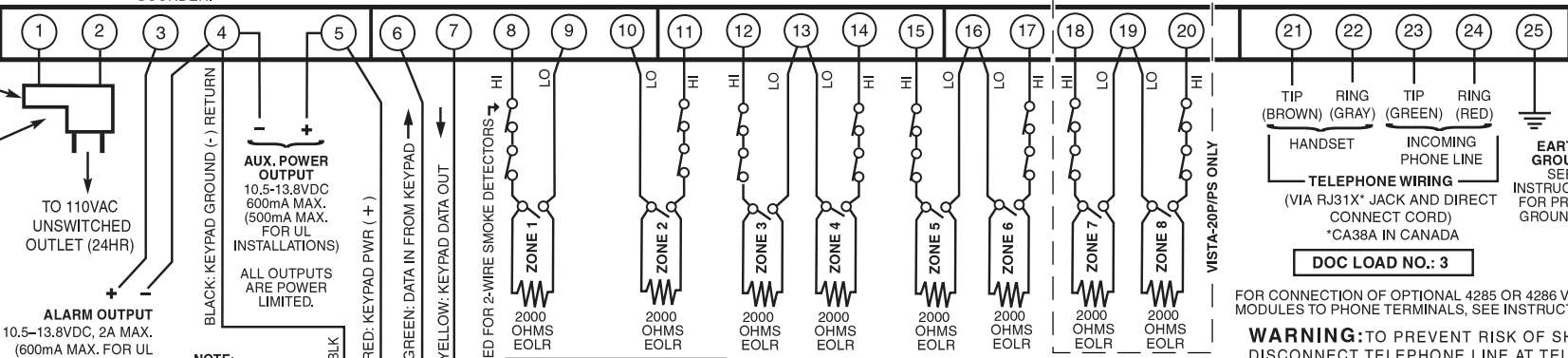
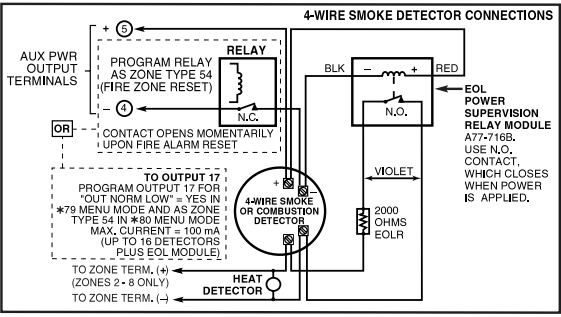
OPTIONAL
FOR UP TO 40 ADDITIONAL ZONES
(FROM EITHER OR BOTH GROUPS)

ADEMCO No. 4219
WIRED EXPANSION MODULE
(8 ADD'L EOLR WIRED ZONES)
-AND/OR-
ADEMCO No. 4229
WIRED EXPANSION/RELAY MODULE
(8 ADD'L EOLR WIRED ZONES PLUS 2 OUTPUT RELAYS)
-AND/OR-
ADEMCO No. 4204 RELAY MODULE
(4 OUTPUT RELAYS)

SET UNIT'S DIP SWITCH FOR DEVICE ADDRESSES 7-15
SEE INSTRUCTIONS.

AND/OR
ADEMCO 5881* Type
RF RECEIVER
WIRELESS ZONES
5881L: UP TO 8
5881M: UP TO 16
5881H: UP TO 56
*5882 IN CANADA

SET RECEIVER'S DIP SWITCH FOR DEVICE ADDRESS OF "0".
SEE INSTRUCTIONS.

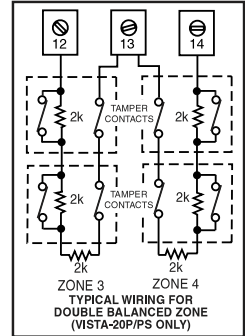


ALARM OUTPUT
10.5-13.8VDC, 2A MAX.
(600mA MAX. FOR UL USAGE, INCLUDING AUX POWER) STEADY FOR BURGLARY/PANIC, TEMPORAL PULSE SOUNDING FOR FIRE. CAN USE ADEMCO No. 702 SIREN, OR 12V BELL). SEE INSTRUCTIONS.

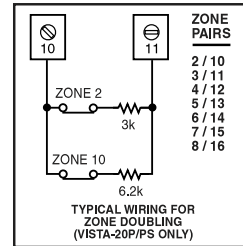
NOTE:
KEYPAD (S) CURRENT (IN BOTH PARTITIONS) AND ALL OTHER DEVICES DRAWING POWER FROM TERMS 4 & 5 MUST BE INCLUDED IN AUX CURRENT DRAIN CALCULATIONS.

REMOTE KEYPADS AND OTHER ADDRESSABLE DEVICES
(e.g. 5800TM, 4285/4286, LRR, 4219, 4229, 4204, 5881)

REMOTE KEYPADS
CAN USE 6150 OR 6160 KEYPADS. LOCAL PROGRAMMING MUST BE DONE WITH A 6139/6160, BUT NEED NOT REMAIN IN THE SYSTEM (SET TO ADDRESS 16).



- **MAXIMUM LOOP RESISTANCE:** (EACH ZONE) 300 OHMS (PLUS EOLR)
- **RESPONSE, ZONES 1-8:** 10, 350, OR 700 MSEC (PROGRAMMABLE)
- **MAXIMUM NUMBER OF 2-WIRE SMOKE DETECTORS ON ZONE 1 IS 16;** DETECTORS MUST HAVE COMPATIBILITY IDENTIFIER AS "A".



POWER SHUTDOWN NOTE:
SYSTEM SHUTS DOWN SENSOR DETECTION PROCESSING IF CONTROL'S VOLTAGE DROPS BELOW 9.6V.

WEEKLY TESTING IS REQUIRED TO ENSURE PROPER OPERATION OF THIS SYSTEM. IN ADDITION, THIS SYSTEM MUST BE CHECKED BY A QUALIFIED TECHNICIAN AT LEAST ONCE EVERY THREE (3) YEARS.

ALL DEVICES AND ACCESSORIES USED IN A CANADIAN INSTALLATION MUST BE LISTED FOR USE IN CANADA

COMPLIES WITH FCC RULES, PART 68.
FCC REGISTRATION NO. 5GBUSA-44003-AL-E
RINGER EQUIVALENCE: 0.1B.

THIS DEVICE COMPLIES WITH PART 15 OF FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRABLE OPERATION.

VISTA-20P/PS SERIES, VISTA-15P SERIES SUMMARY OF CONNECTIONS

4219 Wired Zone Expander Module – Installation Instructions

GENERAL INFORMATION

The 4219 expander module adds up to eight normally closed or eight end-of-line resistor supervised zones to compatible control/communicators via the control's keypad wiring.

The module may be mounted within the control's cabinet (if room permits), or remotely. If mounted remotely, there are provisions to tamper protect the unit. Communication to the module is supervised so that it cannot be disconnected from the keypad wiring without detection by the control. If the wiring is cut, a tamper alarm or signal will result, to indicate that this device (and possibly other similarly connected devices) has become inoperative.

IMPORTANT: Some carbon monoxide detectors may not be compatible with the Honeywell 4219 hardwire zone expanders. When using carbon monoxide detectors in systems that support the 4219 zone expanders, install the detectors only on the basic hardwire zones of the system control panel, and NOT on the zone expanders.

INSTALLATION



1. Disconnect power before proceeding.
2. Mount the 4219 before making any wire connections.

When the module is mounted remotely, holes on the back of the module's housing permit it to be mounted horizontally or vertically. Wires can exit from the side or the breakout on the back of its housing. For tamper protection, attach the tamper magnet (provided) (Figure 1) to the module inside cover. Place DIP switch position #8 in the OFF position. Affix the connections label that accompanies the module to the inside of the module's cover. When the installation is complete, put the modules cover on. The magnet attached to the cover, positioned near the reed switch, will cause a tamper signal to be sent to the control if the cover is removed.

When the module is to be mounted inside the control's cabinet, mount it horizontally to the raised tabs at the back of the cabinet. Insert self-tapping screws (provided) in two adjacent raised tabs at the back of the cabinet. Leave the heads projecting 1/8". Hang the module on the screw heads via two slotted holes on the back of the module's housing. When the module is installed in the control's cabinet, it need not be tamper protected.

NOTE: For EN50131-3 compliance a tie-wrap must be secured around the case of a remotely mounted 4219.

Apply tie-wrap around the case to the right of the large zone wire opening (4-inch case width). This is in opposition of the tamper switch and magnet.

Affix the connections label that accompanies the module to the inside of the control's cover.

See the control's installation and setup guide for additional information.

CONNECTIONS AND SETTINGS

Zone Connections

Make protection zone connections to the module's 12-position terminal block TB1.

Set DIP switch 7 for the desired zone operation (NC or EOLR):

OFF = End of line resistor operation. Each zone that is used must have a **2K-ohm end-of-line resistor** connected across the end of its loop, as shown in Figure 2.

UL: Set to OFF (EOLR)

ON = Normally closed operation

The method of programming each zone for the type of alarm and reporting code to the central monitoring station varies with the control to which the module is connected. Refer to the Installation and Setup Guide for that control unit.

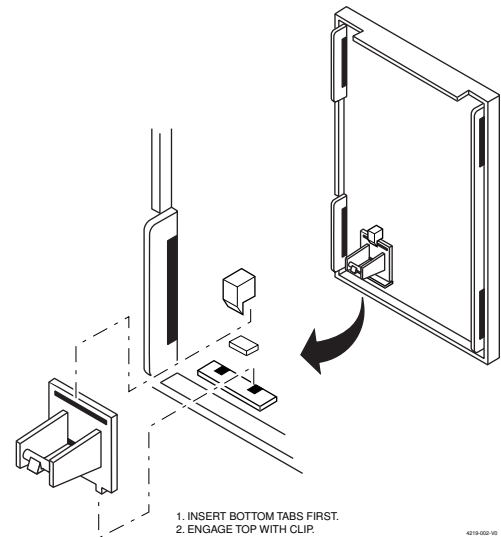


Figure 1. Tamper Magnet Installation

Module Address

Set the module address using DIP switches 2-6.

Select one of 31 addresses, as shown in Figure 3, so the control can identify the module and communicate with it properly. the address to be set is determined by the particular control to be used, and the control's installation instructions must be consulted.

Normal/Fast Response Time for Zone A

Use DIP switch 1 to select normal or fast response time for zone A:

OFF = fast response time of 10ms to an open circuit

ON = normal response time of 300ms. All other module protection zones have a nominal response time of 300ms.

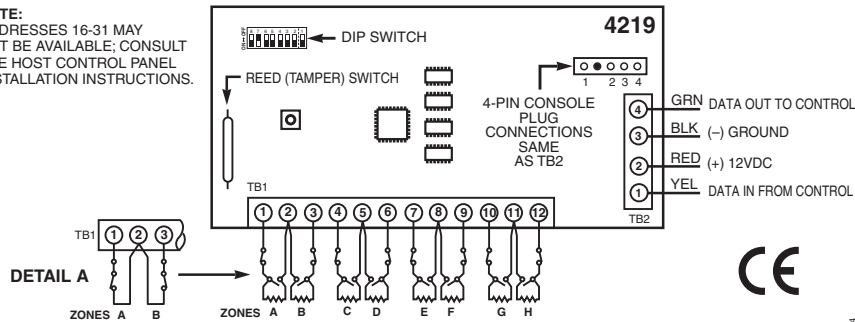
Connection to the Control Panel

Connect the module to the control panel's keypad (ECP) terminals via 4-terminal block TB2 or the 4-pin plug (wire color connections are the same).

SPECIFICATIONS

Physical	6-7/16"W x 4-1/4"H x 1-1/4" D (163mm x 108mm x 32mm)
Electrical	
Input Voltage:	12VDC (from control's remote keypad connection points)
Current:	30mA

NOTE:
ADDRESSES 16-31 MAY
NOT BE AVAILABLE; CONSULT
THE HOST CONTROL PANEL
INSTALLATION INSTRUCTIONS.



IF EOLR OPTION SELECTED, TERMINATE EACH PROGRAMMED ZONE WITH 2K OHM END-OF-LINE RESISTOR (EACH ZONE'S MAX. LOOP RESISTANCE: 300 OHMS + EOL). IF NORMALLY CLOSED OPTION SELECTED, CONNECT ALL ZONES AS NC LOOPS. SEE DETAIL A

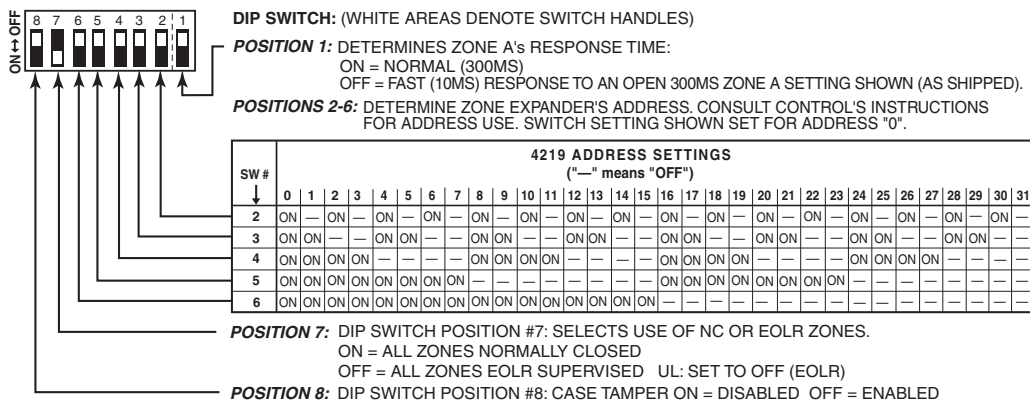
Figure 2. Summary of Connections



EOLR value is 2K ohms.



For UL, use 14-22AWG wire, and no more than one wire may be connected per terminal. Use UL Listed EOL resistors.



NOTE: ADDRESSES 16-31 MAY NOT BE AVAILABLE; CONSULT THE HOST CONTROL PANEL INSTALLATION INSTRUCTIONS.

Figure 3. DIP Switch Settings

SEE THE CONTROL PANEL'S INSTALLATION AND SETUP GUIDE FOR COMPLETE INFORMATION REGARDING THE LIMITATIONS OF THE ENTIRE SECURITY SYSTEM.

Federal Communications Commission (FCC) Part 15

The user shall not make any changes or modifications to the equipment unless authorized by the Installation Instructions or User's Manual. Unauthorized changes or modifications could void the user's authority to operate the equipment.

FCC CLASS B STATEMENT:

This equipment has been tested to FCC requirements and has been found acceptable for use. The FCC requires the following statement for your information: This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- If using an indoor antenna, have a quality outdoor antenna installed.
- Reorient the receiving antenna until interference is reduced or eliminated.
- Move the radio or television receiver away from the receiver/control.
- Move the antenna leads away from any wire runs to the receiver/control.
- Plug the receiver/control into a different outlet so that it and the radio or television receiver are on different branch circuits.
- Consult the dealer or an experienced radio/TV technician for help.

FCC/IC STATEMENT

This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

This device complies with Part 15 of the FCC rules and RSS 210 of Industry Canada. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.
Cet appareil est conforme à la partie 15 des règles de la FCC & de RSS 210 des Industries Canada. Son fonctionnement est soumis aux conditions suivantes: (1) Cet appareil ne doit pas causer d'interférences nuisibles. (2) Cet appareil doit accepter toute interférence reçue y compris les interférences causant une réception indésirable.



N8924V4 3/14 Rev. B

For the latest warranty information, please go to:
<http://www.security.honeywell.com/hsc/resources/wa>

Honeywell

2 Corporate Center Drive, Suite 100
P.O. Box 9040, Melville, NY 11747
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RELAY

CAT. **RM4**



ALARM RELAY

Activates auxiliary devices from smoke, CO and/or heat alarm signal.

SMART INTERCONNECT

Works with all First Alert and BRK "Smart Interconnect" CO Alarms.

MEETS UL STANDARDS

UL217, UL2034 and UL539 for accessories.

MEETS ULC STANDARDS

ULC S-531, CSA6.19 and ULC S-530 for accessories.

FITS IN MOST STANDARD ELECTRICAL BOXES



Listed to
**UL 217 &
UL 2034
Standards**

BRK®

THE PROFESSIONAL STANDARD

120V AC, 60Hz Wire-in

Designed to activate an auxiliary device when an alarm is initiated. The RM4 Relay is intended for use with BRK and First Alert Smoke, Heat and Carbon Monoxide Alarms. The relay contacts will activate whenever any interconnected alarm sounds. The relay contacts will automatically deactivate a few seconds after the alarm stops sounding. The RM4 may be wired next to an AC alarm or from a remote location. This relay must be installed in a junction box.

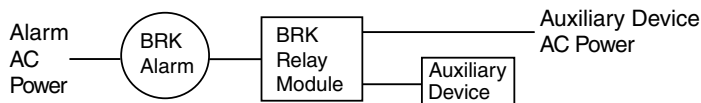
Interconnects smoke alarms, carbon monoxide alarms and heat alarms with:

- Lights
- Bells
- Door Closers
- Sirens
- Exit Signals
- Escape Lights
- Exhaust Fans
- Other Auxiliary Devices





This accessory relay is designed to activate auxiliary devices such as bells, lights and door closers. The RM4 Relay is intended for use with BRK and First Alert Smoke, Heat, and Carbon Monoxide Alarms.



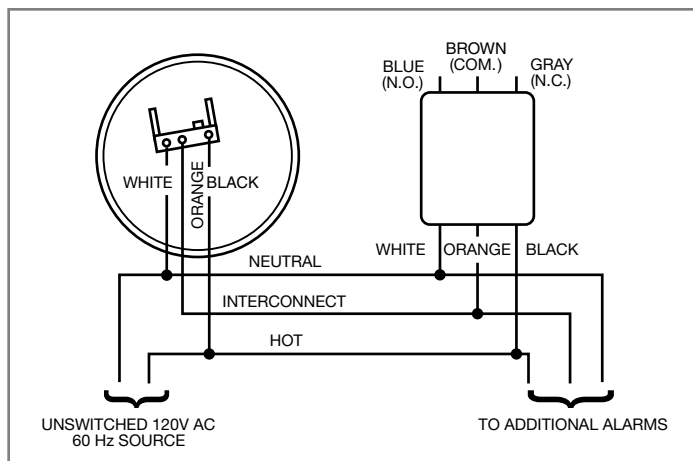
ARCHITECTURAL AND ENGINEERING SPEC

To install this relay to an alarm, connect the power wires as listed below. See diagram for connections. Note: If wiring the relay remote from the alarm, use a maximum of 1000 feet [300 meters] of #18AWG or larger wire rated at least 300V.

ALARM	CONNECTION	RELAY
BLACK WIRE	(HOT)	BLACK WIRE
WHITE WIRE	(NEUTRAL)	WHITE WIRE
ORANGE WIRE	(INTERCONNECT)	ORANGE WIRE

Now connect the accessory to be activated by the relay to the relay's switch contact wires as listed below. (Use wiring appropriate to the auxiliary device being controlled.)
NOTE: Since voltage is present on all relay contact wires at some time during operation, the installer must properly insulate any unused relay contact wire.

BROWN WIRE: HOT CONTACT TO AUXILIARY DEVICE
GRAY WIRE: NORMALLY CLOSED CONTACT
BLUE WIRE: NORMALLY OPEN CONTACT



CONTACT RATINGS (MAXIMUM):

VOLTAGE	RESISTIVE	MOTOR
120V AC	15 AMP	1/3 H.P.
30V	DC 15 AMP	

After installation, test the interaction of the auxiliary device with the alarm by pressing the alarm test button.

TECHNICAL SPECS

Dimensions:	3.5 L x 1.5 H
Weight:	2.2 oz
Operating Voltage:	120V AC 60Hz
Operating Current:	.02 amps (standby/alarm)
Temperature Range:	40°F (4°C) to 100°F (38°C)
Humidity Range:	10% to 90% relative humidity (RH)
Interconnections:	Up to 18 units of First Alert or BRK Smoke, CO and Heat Alarms. Maximum of 12 smoke alarms. See user's manual for details.
Listing:	Meets UL217, UL2034, UL539,ULC S-531, CSA6.19 and ULCS-530 for accessories.

SHIPPING SPECS:

Individual Bag Dim. (Approx.)	6.25"L x 1.50"W x 5.00"H
Weight	0.16 lbs.
Cube	0.03 ft3
UPC	0 29054 00057 6
Master Carton Dimensions	10.25"L x 4.75"W x 6.38"H
Master Pack	12
Weight	2.1 lbs.
Cube:	0.19 ft3
I2of5:	100 29054 00057 3
Pallet Information	
Cases per Layer	35
Number of Layers:	6
Cases per Pallet:	210
Units per Pallet:	2,520
Cube:	54.7 ft3
Weight:	695 lbs.



6062 Multi-Purpose Timer

Overview:

Model 6062 programmable timer is suitable for many functions that require a timed operation e.g. Access Control Applications, Siren/Bell Cut Off Module, Dialer Delay, Guard Tour Supervisory Timer, etc. Some optional functions include: One Shot, Delayed Release, Delayed Operate, Delayed Pulse and Pulsar/Flasher. A new feature has been added which provides a momentary relay activation at the end of a desired timing cycle. This feature eliminates the need for having to use two (2) timers to achieve this function.

Specifications:

Input:

- 12VDC or 24VDC operation is selectable.

Current Draw:

- Stand-by: 3mA, Relay energized: 40mA.

Relay:

- Selectable relay activation at the start or end of the timing cycle.
- One (1) second momentary relay activation at the end of the timing cycle (eliminates the need to use two (2) timers for this function).

Visual Indicators:

- LED indicates relay is energized.

Electrical:

- Operating temperature: -20° C to 49° C ambient.

Features:

- Triggers via positive DC (+) voltage, dry contact closure, or removal of contact closure.
- Quick and extremely accurate time range adjustment from 1 second to 60 minutes.
- Built-in reset feature that cancels timing cycle.
- Repeat (flasher/pulse) mode.

Mechanical:

- Snap Trac compatible (order Altronix model #ST3).
- Board Dimensions (L x W x H approx.): 3" x 2.5" x 0.75" (76.2mm x 63.5mm x 19.05mm).
- Product weight (approx.): 0.1 lb. (0.05 kg).
- Shipping weight (approx.): 0.15 lb. (0.07 kg).

Installation Instructions:

1. Mount 6062 in desired location/enclosure.
 2. Set proper DC Input Voltage DIP Switch 3: 12VDC ON, 24VDC OFF.
 3. Refer to **DIP Switch Selection** and **Jumper Selection Tables** for desired functions (e.g.: Timing, Trigger, Pulse)
 4. Measure DC input voltage before powering device to ensure proper operation.
 5. Refer to **Terminal Identification Table** and **Typical Applications fig. 1 through fig. 8**, for desired wiring connections.
Note: When triggering via a N.O. (normally open), momentary or maintained trigger, connect the dry contact trigger to Pos (+) and TRG terminals. When triggering via a N.C. (normally closed), momentary or maintained trigger, connect the trigger to Neg. (-) and TRG terminals and install a resistor [for 12VDC - 2K (2,000 ohm) or for 24VDC - 4.7K (4,700 ohm)] between the Pos (+) and TRG terminals (*Fig. 8*).
 6. Enable the reset features:
 - Cut J3 when power is removed the timer will reset and not re-trigger when power is restored unless a new trigger is applied.
- Note:** The closed trigger and delayed pulse options will not operate if the reset feature is desired.

DIP Switch Selection Table:

DIP #	Off	On
1	Relay energizes at the start of timing cycle.*	Relay energizes at the end of timing cycle.*
2	1-60 Minutes timing range (trimpot adjustable).	1-60 Seconds timing range (trimpot adjustable).
3	24VDC operating voltage.	12VDC operating voltage.
4	Timing begins immediately upon trigger input.	Timing starts after removal of trigger input.

* When relay energizes (LED is on) [N.O. & C] switch from open to close and [N.C. & C] switch from close to open.

Jumper Selection Table:

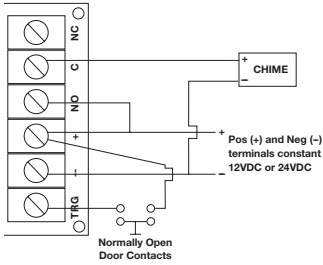
Number	Function/Description
J1	Cutting J1 selects the pulser/flasher mode. Relay will flip ON and OFF continuously in equally set timed intervals when timer is powered up.
J2	Cutting J2 puts timer in delayed output mode. Relay will pulse for 1 second at the end of a preset timing cycle. *DIP Switch 1 must be ON for this function.
J3	6062 will go through an initial timing cycle when first powered up unless J3 is cut. If J3 is cut, timing can only be initiated via TRG terminal.

Terminal Identification:

Terminal Legend	Function/Description
TRG	Applying a positive voltage will activate timing cycle. Trigger voltage range: 7-12VDC at 12 volt setting, 15-24VDC at 24 volt setting.
-, +	Connect 12 or 24VDC filtered and regulated voltage. Refer to DIP Switch Selection Table for voltage setting.
N.O., C, N.C.	Dry form "C" relay contacts are rated 8A at 120VAC/28VDC.

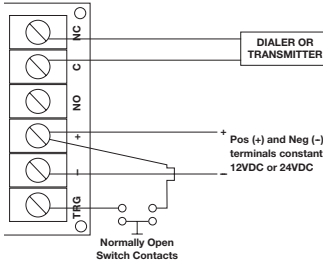
6062 Typical Applications:

Fig. 1 - Timed Door Annunciator:



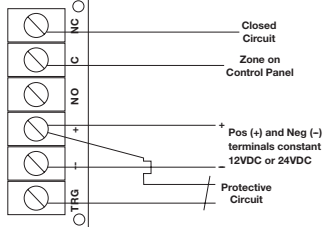
For this application Switch #1 and Switch #4 should be in the OFF position.

Fig. 2 - Guard Tour Supervisory Timer:



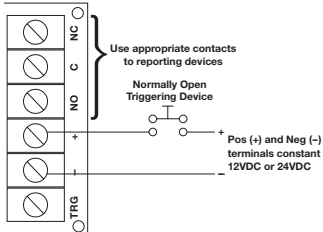
For this application Switch #1 and Switch #4 should be in the OFF position.

Fig. 3 - Swinger Eliminator:



For this application Switch #1 should be in the OFF position and Switch #4 should be in the ON position.

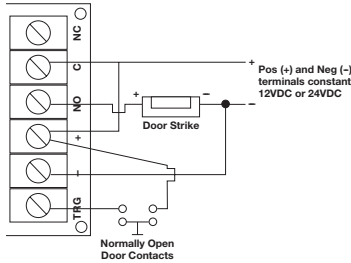
Fig. 4 - Delay Timer: Use for Door Ajar Alarm, Delayed Activation of Digital Dialer, Defrost Cycle Timer, etc...



For this application Switch #1 should be in the ON position and Switch #4 is not used in this application.

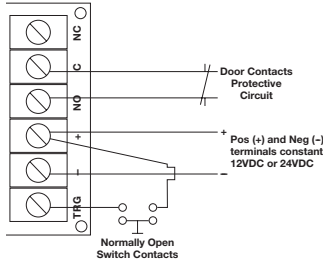
Altronix is not responsible for any typographical errors.

Fig. 5 - Timed Door Strike:



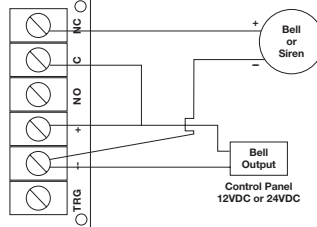
For this application Switch #1 should be in the OFF position and Switch #4 should be in the ON position.

Fig. 6 - Timed Shunt for a Door: Use to bypass alarm contacts.



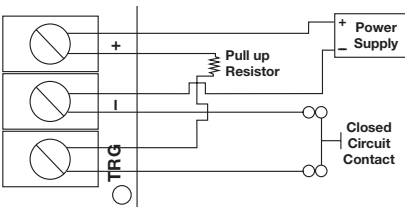
For this application Switch #1 should be in the OFF position and Switch #4 should be in the ON position.

Fig. 7 - Bell Cut Off Timer:



For this application Switch #1 should be in the ON position and Switch #4 is not used in this application.

Fig. 8 - Closed Circuit Trigger Option:

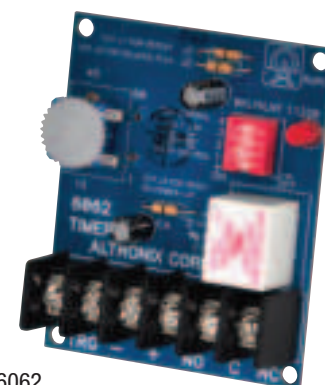


For this application a resistor [for 12VDC - 2K (2,000 Ohm) or for 24VDC - 4.7K (4,700 Ohm)] must be installed as shown (resistor not supplied).

6062

Multi-Purpose Timer

Altronix 6062 programmable timer is suitable for many functions that require a timed operation e.g. Access Control Applications, Siren/Bell Cut Off Module, Dialer Delay, Guard Tour Supervisory Timer, etc. Some optional functions include: One Shot, Delayed Release, Delayed Operate, Delayed Pulse, and Pulser/Flasher.



6062

Specifications

Input

Voltage	12VDC or 24VDC selectable
Current Draw	Stand-by: 3mA, Relay energized: 40mA.

Relay

Contact Rating	8A/120VAC or 28VDC contacts
Selectable relay activation at the start or end of the timing cycle	
One (1) second momentary relay activation at the end of the timing cycle (eliminates the need to use two timers for this function)	

Timer

Triggers via positive DC (+) voltage, dry contact closure or removal of contact closure.	
Quick and extremely accurate time range adjustment from 1 second to 60 minutes.	
Built-in reset feature cancels timing cycle	
Repeat (flasher/pulse) mode	

Indicators (LED)

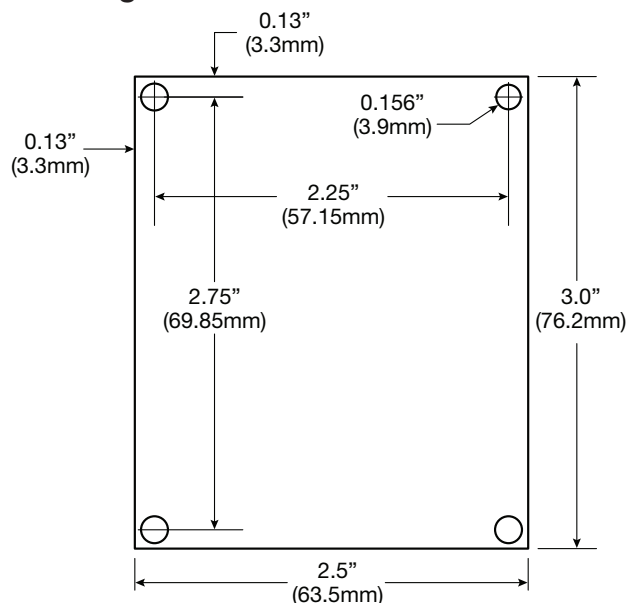
Red	Indicates relay is energized.
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Physical and Environmental

Dimensions (L x W x H)	3" x 2.5" x 0.75" (76.2mm x 63.5mm x 19.05mm)
Product Weight	0.1 lb. (0.05 kg).
Shipping Weight	0.15 lb. (0.07 kg).
Temperature	
Operating	-20°C to 49°C (-4°F to 120°F)
Storage	-25°C to 70°C (-13°F to 158°F)
Relative Humidity	85% +/-5%.

Board Dimensions (L x W x H) and Drawing

3" x 2.5" x 0.75" (76.2mm x 63.5mm x 19.05mm)

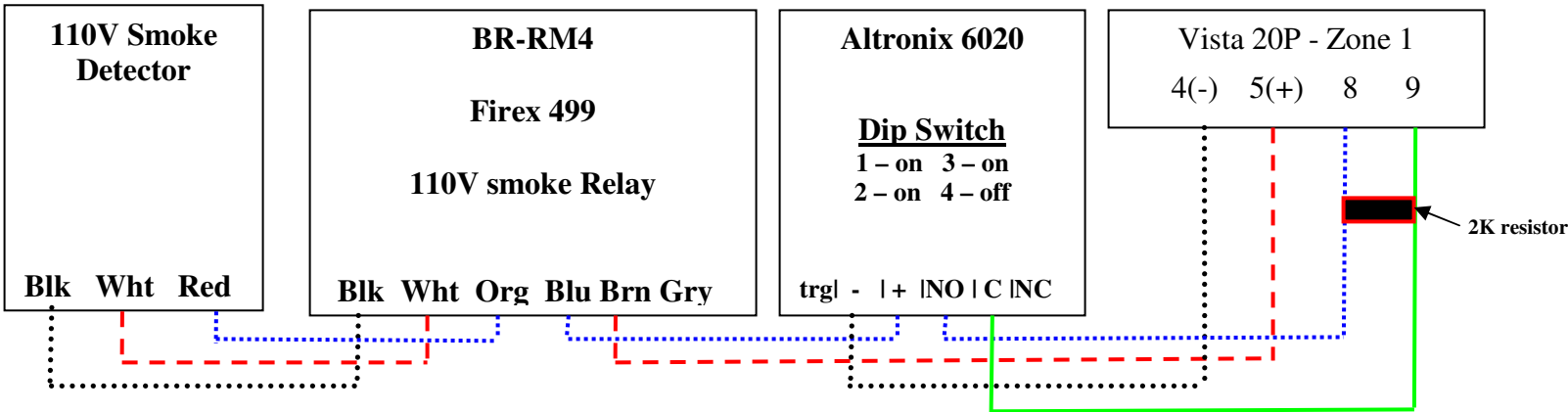


Lifetime Warranty

NOTE: Credit to the Alarm Guy Russ VanDevanter, Seattle, WA for the wiring diagram related to integrating 110v 3 wire smoke detectors into the Vista 20P Alarm Panel.
<https://www.alarmprofessor.com/110vac-smoke-detector-integration-with-timer/>

Wiring Method for House 3-wire smoke detectors to Alarm Control

1. BR-RM4 (Firex 499) and Altronix 6062 Timer Module



- Note 1: This configuration allows to set the timer for the period of time (1 – 60 seconds) that the 110V smoke detector has to be tripped before it will activate the Alarm Control fire alarm. I recommend setting the timer for 10+ seconds. The reason for this is that sometimes the smoke detectors are not on dedicated 110V AC circuits and a surge on the line from an appliance (such as a vacuum cleaner) can cause a momentary activation of the smoke detector that will activate the BR-RM4 relay. The timer circuit will eliminate false alarms from such occurrences.
- Note 2: BR-RM4 relay is a 110V AC relay. In the event of a house power outage, the house smoke detectors will not trigger the alarm control panel. For this reason I usually recommend putting a least one smoke detector that is wired directly to the alarm control panel (or a wireless smoke detector programmed directly to the alarm control panel)