

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

CITY OF PORTLAND

BUILDING INSPECTION

PERMIT

Permit Number: 091448

PERMIT ISSUEDPlease Read
Application And
Notes, If Any,
AttachedThis is to certify that HOSAN LLC/Protection Onehas permission to install fire alarm 2nd floorAT 97 INDIA STCB 020 A005001

provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statutes of Maine and of the Ordinances of the City of Portland regulating the construction, maintenance and use of buildings and structures, and of the application on file in this department.

Apply to Public Works for street line and grade if nature of work requires such information.

Notification of inspection must be given and written permission procured before this building or part thereof is lathed or otherwise red-in. 24 HOURS NOTICE IS REQUIRED.

A certificate of occupancy must be procured by owner before this building or part thereof is occupied.

OTHER REQUIRED APPROVALS

Fire Dept. [Signature]

Health Dept. _____

Appeal Board _____

Other _____

Department Name

[Signature] 1/13/10
Director - Building & Inspection Services

PENALTY FOR REMOVING THIS CARD

City of Portland, Maine - Building or Use Permit Application

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 09-1448	Issue Date:	CBL: 020 A005001
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Location of Construction: 97 INDIA ST	Owner Name: HOSAN LLC	Owner Address: PO BOX 7060	Phone:
Business Name:	Contractor Name: Protection One	Contractor Address: 10 Manuel Drive Portland	Phone: 2073475316
Lessee/Buyer's Name	Phone:	Permit Type: Fire Alarm System	Zone: B2b

Past Use: Commercial	Proposed Use: Commercial - install fire alarm 2nd floor	Permit Fee: \$120.00	Cost of Work: \$9,640.00	CEO District: 1
Proposed Project Description: install fire alarm 2nd floor <i>by use: professional officers</i>		FIRE DEPT.: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied <i>w/conditions</i> 12/30/09 Signature: <i>[Signature]</i>	INSPECTION: Use Group: <i>B</i> Type: <i>Fire Alarm</i> IBC-2003 Signature: <i>[Signature]</i> 1/13/10	
PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.) Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Signature: _____ Date: _____				

Permit Taken By: Ldobson	Date Applied For: 12/29/2009
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Zoning Approval

1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules. 2. Building permits do not include plumbing, septic or electrical work. 3. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..	Special Zone or Reviews <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Date: <i>[Signature]</i> 12/30/09	Zoning Appeal <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date: _____	Historic Preservation <input checked="" type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date: <i>[Signature]</i>
	PERMIT ISSUED JAN 13 2010 City of Portland		

CERTIFICATION

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE

BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 (ONLY)

to schedule your inspections as agreed upon

Permits expire in 6 months, if the project is not started or ceases for 6 months.

The Owner or their designee is required to notify the inspections office for the following inspections and provide adequate notice. Notice must be called in 48-72 hours in advance in order to schedule an inspection:

By initializing at each inspection time, you are agreeing that you understand the inspection procedure and additional fees from a "Stop Work Order" and "Stop Work Order Release" will be incurred if the procedure is not followed as stated below.

A Pre-construction Meeting will take place upon receipt of your building permit.

 X Final inspection required at completion of work.

Certificate of Occupancy is not required for certain projects. Your inspector can advise you if your project requires a Certificate of Occupancy. All projects DO require a final inspection.

If any of the inspections do not occur, the project cannot go on to the next phase, REGARDLESS OF THE NOTICE OR CIRCUMSTANCES.

CERIFICATE OF OCCUPANICES MUST BE ISSUED AND PAID FOR, BEFORE THE SPACE MAY BE OCCUPIED.

Signature of Applicant/Designee

Signature of Inspections Official

Date

Date

PERMIT ISSUED

JAN 13 2010

City of Portland

City of Portland, Maine - Building or Use Permit

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 09-1448	Date Applied For: 12/29/2009	CBL: 020 A005001
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Location of Construction: 97 INDIA ST	Owner Name: HOSAN LLC	Owner Address: PO BOX 7060	Phone:
Business Name:	Contractor Name: Protection One	Contractor Address: 10 Manuel Drive Portland	Phone (207) 347-5316
Lessee/Buyer's Name	Phone:	Permit Type: Fire Alarm System	

Proposed Use: Commercial - install fire alarm 2nd floor	Proposed Project Description: install fire alarm 2nd floor
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Dept: Zoning **Status:** Approved with Conditions **Reviewer:** Marge Schmuckal **Approval Date:** 12/30/2009

Note:**Ok to Issue:**

- 1) This property shall remain professional offices. Any change of use shall require a separate permit application for review and approval.
- 2) This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.

Dept: Building **Status:** Approved with Conditions **Reviewer:** Jeanine Bourke **Approval Date:** 01/13/2010

Note:**Ok to Issue:**

- 1) Fire Alarm systems shall be installed per Sec. 907 of the IBC 2003
- 2) Separate permits are required for any electrical, plumbing, sprinkler, fire alarm or HVAC or exhaust systems. Separate plans may need to be submitted for approval as a part of this process.

Dept: Fire **Status:** Approved with Conditions **Reviewer:** Ben Wallace Jr. **Approval Date:** 12/30/2009

Note:**Ok to Issue:**

- 1) This fire alarm system shall be monitored by an approved central station.
- 2) The fire alarm system shall comply with the City of Portland Standard for Signaling Systems for the Protection of Life and Property. All fire alarm installation and servicing companies shall have a Certificate of Fitness from the Fire Department.
- 3) Installation of a Fire Alarm system requires a Knox Box to be installed per city ordinance
- 4) System acceptance and commissioning must be co-ordinated with the Fire Department. Call 874-8703 to schedule.
- 5) All fire alarm records required by NFPA 72 should be stored in an approved cabinet located at the FACP and keyed alike, labeled "FIRE ALARM RECORDS".

PERMIT ISSUED
PERMIT ISSUED

JAN 13 2010
JAN 13 2010

City of Portland
City of Portland



Fire Alarm Permit

If you or the property owner owes real estate or property taxes or user charges on any property within the city, payment arrangements must be made before permits of any kind are accepted.

Installation address: 97 India Street CBL: 20 A S
Exact location: (within structure) 2nd Floor Closet off Kitchen; annunciator in 1st floor stairway lobby
Type of occupancy(s) (NFPA & ICC): Business
Building owner: Hosan, LLC
System Designer (point of contact): Robin Russell
Designer phone: (207) 347-5310 E-mail: rrussell@protectionone.com
Installing contractor: Protection One Certificate of Fitness No: _____
Contractor phone: (207) 347-5316 E-mail: jkempton@protectionone.com

This is a new application: YES NO
This is an amendment to an existing permit: YES NO Permit no: _____

The following documents shall be provided with this application:

- Floor plans
- Wiring diagram
- Annunciator details
- Equipment data sheets
- Battery & voltage drop calculations
- Input/ Output Matrix
- Designer qualifications
- Electrical Permit Pulled (check alarm/com)

COST OF WORK: \$9,640.00
PERMIT FEE: \$110.00
(\$10 PER \$1,000 + \$30 FOR THE FIRST \$1,000)

RECEIVED
DEC 29 2009
Dept. of Building Inspections
City of Portland Maine

The designer shall be the responsible party for this application. Download a new copy of this application at www.portlandmaine.gov/fire for every submittal. Submit all plans in electronic PDF in addition to full sized plans to the Building Inspections Department, 389 Congress Street, Room 315, Portland, Maine 04101.

Prior to acceptance of any fire alarm system, a complete commissioning and acceptance test must be coordinated with all fire system contractors and the Fire Department, and proper documentation of such test(s) provided.

All installation(s) must comply with the *City of Portland Technical Standard for Signaling Systems for the Protection of Life and Property*, available at www.portlandmaine.gov/fire.

Applicant signature: Robin Russell Date: 12/29/09

NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES®

HEREBY CERTIFIES THAT

Robin L. Russell

HAS ATTAINED THE GRADE OF

LEVEL II

IN FIRE PROTECTION ENGINEERING TECHNOLOGY
FIRE ALARM SYSTEMS

AND RECOGNIZES THAT THROUGH EDUCATION,
EXPERIENCE, AND KNOWLEDGE THIS PERSON HAS
MET THE STANDARDS SET FORTH BY THIS INSTITUTE

Certification Valid through April 1, 2010

CERTIFICATION NUMBER 110826


CHAIRMAN OF THE BOARD OF GOVERNORS, NICET



SPONSORED BY THE NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS

Altronix 602

Entries only to be made in the Yellow cell locations

Regulated Load in Standby

Device Type	Number of Devices		Current (Amps)		Total Current (Amps)
Main PC Board	1	X	0.065	=	0.065
Power Supervision Relays	1	X	0.015	=	0.015
		X		=	0
STANDBY LOAD					= 0.080

Regulated Load in ALARM

Device Type	Number of Devices		Current (Amps)		Total Current (Amps)
Main PC Board without AC	1	X	0.091	=	0.091
Power Supervision Relays	1	X	0.025	=	0.025
Auxiliary Current Draw	1	X	0.059	=	0.059
NAC / Output # 1 7 Devices	1	X	0.558	=	0.558
NAC / Output # 2 5 Devices	1	X	0.47	=	0.47
NAC / Output # 3 3 Device	1	X	0.312	=	0.312
NAC / Output # 4	1	X	0	=	0
ALARM LOAD					= 1.515

Battery Amp Hour Calculation

Standby Load Current (Amps)		Required Standby Time (Typically 24 or 60 Hours)	
0.08	X	24	= 1.92 AH
Alarm Load Current (Amps)		Required Alarm Time (Typically 5 or 10 Minutes)	
1.515	X	10	= 0.253 AH
Sub Total Standby / Alarm Amp Hours			2.17 AH
Multiply by the Derating Factor			X 1.35 *
Total Ampere Hours Required			= 3.433 AH

* Derating Factor required to compensate for the non-linear discharge characteristic of a battery.

Honeywell Security

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- Apply UL Power Limits?
(Required to maintain UL Listing)
- Commercial Fire Installation
- Commercial Burg Installation

Facility Information

Location:	Hosan, LLC
Account #:	
Model:	Vista 128FBP
Engineer:	Robin Russell
Date:	12/11/2009

Enter Standby and Alarm Times

Battery Standby (hours):	24	Battery Contingency Factor 10% ▼
Alarm Duration (minutes):	10	

Recommended
Battery (AH)

PS24

Using PS24 to Backup Control Panel

SELECTED PANEL MAXIMUM OUTPUT RATINGS

Select Panel from pulldown list: Vista-128FBP ▼	Polling Loop (mA) 128	Standby Auxiliary Power (mA) 1000	Alarm Auxiliary Power (mA) 1700	Panel Standby (mA) 300	Panel Alarm (mA) 470	Bell #1 Output (mA) 1700	Bell #2 Output (if used; mA) 1700	Maximum Panel Standby Output 1300	Maximum Panel Alarm Output 2800	Max Battery Supported by Panel 34.4
Calculated Current Draw	38.7	418	465	Calculated Bell Draw		0	0	Total Standby 457	Total Alarm 504	
Power Budget	217.2	582.0	1235.0	Bell Power Budget		1700.0	1700.0	Standby Budget 843.3	Alarm Budget 2296.3	
<input checked="" type="checkbox"/> Remove Unused Devices From List			External Bell Power Req'd (mA):		0.0		Ext. UL Power Req'd (mA):		100.0	

Grayed-out device(s) are not supported by selected panel.

KEYPADS/INTERFACES	Enter Quantity	How many powered externally?	Standby (aux pwr)	Alarm Current (Aux)	Polling Loop	Total Polling Loop	Total Standby Current	Total Alarm Current	Total External Current Required
<i>(Hatched)</i>									
<i>(Hatched)</i>									
<i>(Hatched)</i>									
6160/6160CR	3	0	45	150			135	450	0
			190						
			159						
			159						
			137						
			350						

2 WIRE & 4 WIRE SMOKE DETECTORS (except Vplex Polling Loop detectors)	Enter Quantity	How many powered externally?	Standby (aux pwr)	Alarm Current (Aux)	Polling Loop	Total Polling Loop	Total Standby Current	Total Alarm Current	Total External Current Required
Two-wire smoke detector current is built into the panel budgets. These fields are included to help you create a complete equipment list. The line below indicates if number of detectors exceeds panel capacity, or if the selected panel does not support 2-wire smoke detectors.									

MULTI-POWER DEVICES	Enter Quantity	How many powered externally?	Standby (aux pwr)	Alarm Current (Aux)	Polling Loop	Total Polling Loop	Total Standby Current	Total Alarm Current	Total External Current Required
4297 Polling Loop Extender	1	0							

PS24 Power Supply

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Standby/Alarm Durations (from top)

Battery Standby (hours):	24
Alarm Duration (minutes):	10
Required Capacity (AH)	15.954
Use TWO identical batteries w/ this AH capacity	12.0

PS24 POWER SUPPLY MODULE, MAXIMUM CAPACITIES

Using PS24 to back up Control Panel

Equivalent panel load @ 24V
(converted to 12VDC from 24V full-wave)
Power Budget

Panel 12V Standby (mA)	Panel 12V Alarm (mA)	Output A Standby (mA)	Output A Alarm (mA)	Output B Standby (mA)	Output B Alarm (mA)	PS24 PC Board (mA)	Maximum Total Standby Output	Maximum Total Alarm Output	Max. Battery Capacity
75	914	570	1700	570	1700	40	610	4180	34.4
469.2	603.7	90	175	0	0	40	Total Standby	Total Alarm	
							599	819	
							Standby Budget	Alarm Budget	
287.5	370.0	480.0	1525.0	570.0	1700.0		10.8	3361.3	34.4

24V NOTIFICATION APPLIANCES Enter Device Names & Specifications	Enter Quantity	Which PS24 Output?	Device Standby Load (mA)	Device Alarm Load (mA)		Subtotal A Standby	Subtotal A Alarm	Subtotal B Standby	Subtotal B Alarm
Altronix AL602ULADA 6.0 Amp PS	1	Output A	90	175		90	175	0	0
		Output A							
		Output A							
		Output A							
		Output A							
		Output A							
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		Output A							
		Output A							
		Output A							
		Output A							
		Output A							

24V BELL CIRCUIT WIRE RUN DATA	Units	Wire Gauge(AWG)	Ohms per 1000 ft	Total Alarm Current Draw (mA)	Run Length	Actual Resistance (twin leads)	Voltage At EOL	Voltage Drop (Percent)
PS24 Output A Wire Run (twin lead)	Feet	<Select Wire Gauge>	0.00	175.00	0	0.00	24.00	0.00
PS24 Output B Wire Run (twin lead)	Feet	#14 AWG Solid	3.19	0.00	0	0.00	24.00	0.00

Honeywell

VISTA-128FBP/V128FBP-24

COMMERCIAL FIRE AND PARTITIONED
BURGLARY ALARM PLATFORM



To meet UL approval for
ANSI/SIA CP-01:2000 order
part number VISTA-128SIA



Designed to integrate seamlessly with CCTV, access control and Honeywell's full range of fire and burglary components, the new VISTA-128FBP provides the ultimate protection of life and property. The UL listed Commercial Fire and Burglary Control Platform controls up to eight partitions and supports up to 128 zones/points using hardwired, wireless and V-Plex addressable technologies. A diverse line of Honeywell initiating devices, notification circuits, digital dialers, keypads,

RF receivers and relays are supported by this extremely powerful control platform. The VISTA-128FBP has been designed to mount quickly and easily in an attack resistant cabinet, and is available in 12V and 24V models. A revolutionary new feature called Panel Linking allows multiple partitions, panels—even buildings—to be armed, disarmed and have status checked all from one location.

FEATURES

- Eight hardwired zones standard, expandable to 120 V-Plex addressable points/zones or 128 wireless points/zones
- Can control eight separate areas independently (8 partitions)
- Supports Panel-Linking allows up to 8 systems or building to be controlled from one central location (using VA8200)
- Supports Commercial UL Wireless Fire and Burg
- Stores up to 512 events and can accommodate 150 user codes
- Supports V-Plex addressable VistaKey access control (1 to 8 doors)
- Supports up to 16 doors of access control using VISTA Gateway Module (VGM)*
- Supports CCTV applications with the new VistaView-100 CCTV Switcher Module
- Identifies the point or zone of a fire or alarm using the new FSA-8/FSA-24 Fire System Annunciator
- Programmable to meet SIA false alarm prevention specifications and UL approval for ANSI/SIA CP-01-2000 order part number VISTA-128SIA
- Two on-board notification (bell) circuits delivering 2.3 amp @ 12V or 3.4 amp @ 24V
- Automatic smoke detector sensitivity maintenance testing
- 4-wire smoke reset using onboard J2 output trigger
- Supports Dynamic Signaling for LRR backup
- Supports Remote Control via the Internet**
- Supports Internet Alarm Reporting**
- Supports Graphical User Interface Consoles
- Supports up to 250 access card holders using VistaKey
- Supports AlphaNumeric Pager up to eight different numbers using the VA8201

* Connects to Northern Computers PassPoint Access Control Systems. Maximum 32 doors.

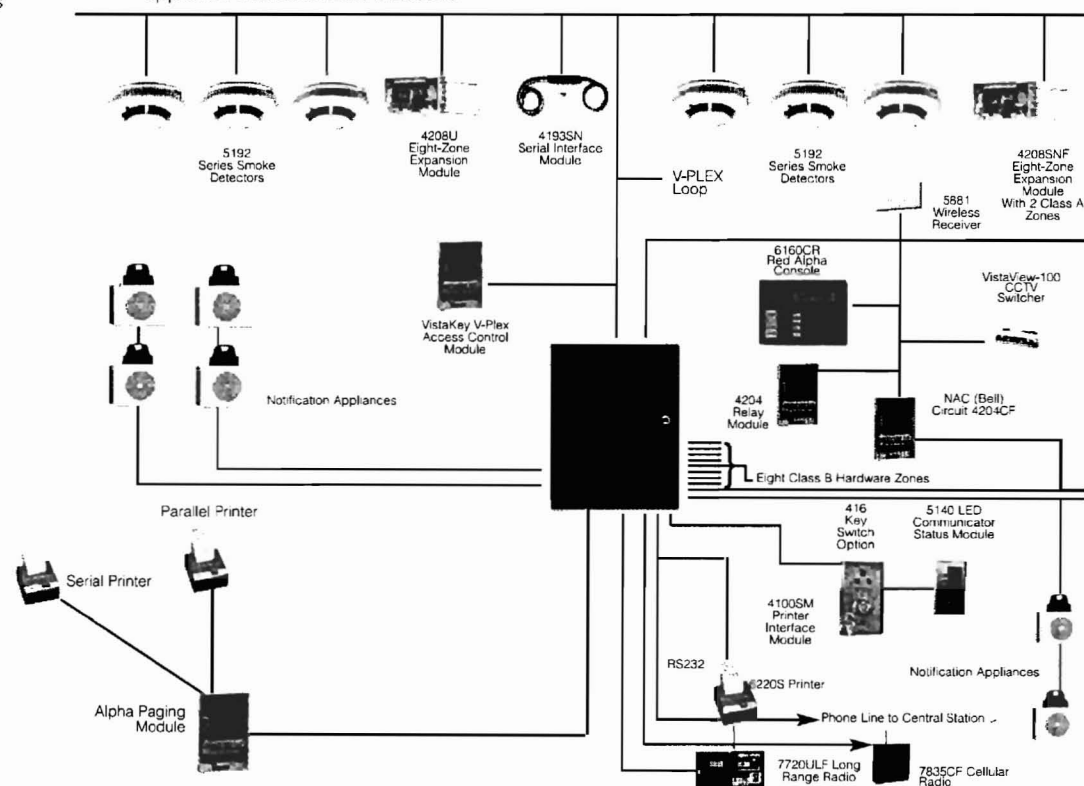
** When used with AlarmNet-i.

VISTA-128FBP/ V128FBP-24

COMMERCIAL FIRE AND PARTITIONED BURGLARY ALARM PLATFORM

ADDITIONAL FEATURES

- Notification Appliance Circuits (two):
 - Programmable
 - Temporal code compliant
 - Individually silenceable
- Programmable on-board auxiliary relay
- SIA false alarm reduction features:
 - Exit error logic
 - Exit delay reset
 - Cross zoning
 - Call waiting defeat
 - Recent close report
- Supports commercial hardwired, addressable V-Plex polling loop and wireless zones
- Hardwired zones
 - Provides eight style B hardwired zones
 - EOLR supervised for Fire and UL burglary installations
 - Supports N.O. or N.C. sensors
 - Individually assignable to any eight partitions
 - Up to 32 two-wire smoke detectors each on zone one and two (64 total)
 - Up to 50 two-wire glass break detectors on zone eight
- Patented addressable V-Plex polling loop technology
 - Supports 120 two-wire zones points
 - Global polling technology for faster processing
- Increased current draw capacity (128mA)
- Supervised by panel
- Individually assignable to partitions, notification circuit (bell) output or aux relay
- 4,000 ft. capability without the use of shielded cable
- Extender/Isolation bus module
- Two-wire smoke detector zone/group expansion module adds two or four zones
- Eight zone – Class A and B extender module
- Eight zone – Class B extender module
- One zone supervised contact monitor module
- UL Listed wireless expansion
 - Supports up to 128 wireless zones/points using 5881ENHC receiver
 - Supervised by control for check-in signals
 - Tamper protection for transmitters
 - Individually assignable up to eight partitions
 - Supports UL864/NFPA approved wireless smoke detectors
- Access Control integration
 - Full integration with PassPoint Access Control System
 - Complete Gateway interface of VISTA and access functions
- Up to 8 doors using VistaKey V-Plex Access Control
- Event reporting
- Local printer of access or VISTA related event
- Scheduled uploading of events to central station
- Stored events for one call retrieval
- Communication
 - Phone mapping by zone response type
 - Supports VIP interactive phone voice module
 - Panel operation during download
 - Uploading equipment list to central station
 - Communication to PassPoint via VISTA Gateway Module
- CCTV integration
 - Supports VistaView-100 ECP based CCTV switchers



SPECIFICATIONS

Applications

The VISTA-128FBP control is well suited for a variety of applications as an integrated fire and burglary control. A diverse line of ADEMCO initiating devices supports this extremely powerful control. Some of the applications supported are: medical and professional buildings, churches or synagogues, office buildings, schools, strip malls, larger residences and factory or warehouse environments.

Installation

The VISTA-128FBP alarm system has been designed to mount both quickly and easily. It meets all applicable requirements for UL commercial fire and burglary installations.

Specifications Electrical

- Primary power: 18VAC @ 72VA
Honeywell No. 1451
- Control panel quiescent current draw: 350mA
- Backup battery:
 - 12VDC, 12AH min to 34.4AH max
 - Lead acid battery (gel type)
- Alarm power: 12VDC, 1.7A max for each notification (bell) circuit output
Total 2.3amps @ 12V

- Aux. standby pwr: 12VDC, 1Amax
- Total power: 2.3A at 12VDC, 3.4A at 24VDC from all sources
- Standby time: 24 hours with 1A standby load using 34.4AH battery
- Fusing: Battery input, aux. and notification (bell) circuit outputs are protected using PTC circuit protectors. All outputs are power limited.
- Optional 24-volt power supply, PS 24 Supplies two 24 VFW, 1.7A full wave rectified, unfiltered outputs Main Dialer:
- Line seize: Double Pole
- Ringer equiv.: 0.7B
- Formats: ADEMCO Low Speed, ADEMCO 4+2 Express, ADEMCO High Speed, ADEMCO Contact ID, Sescoa and Radionics
- Dual phone line capability (using 5140DLM module)

Cabinet dimensions

- 18"H X 14.5"W X 4.3"D

Environmental

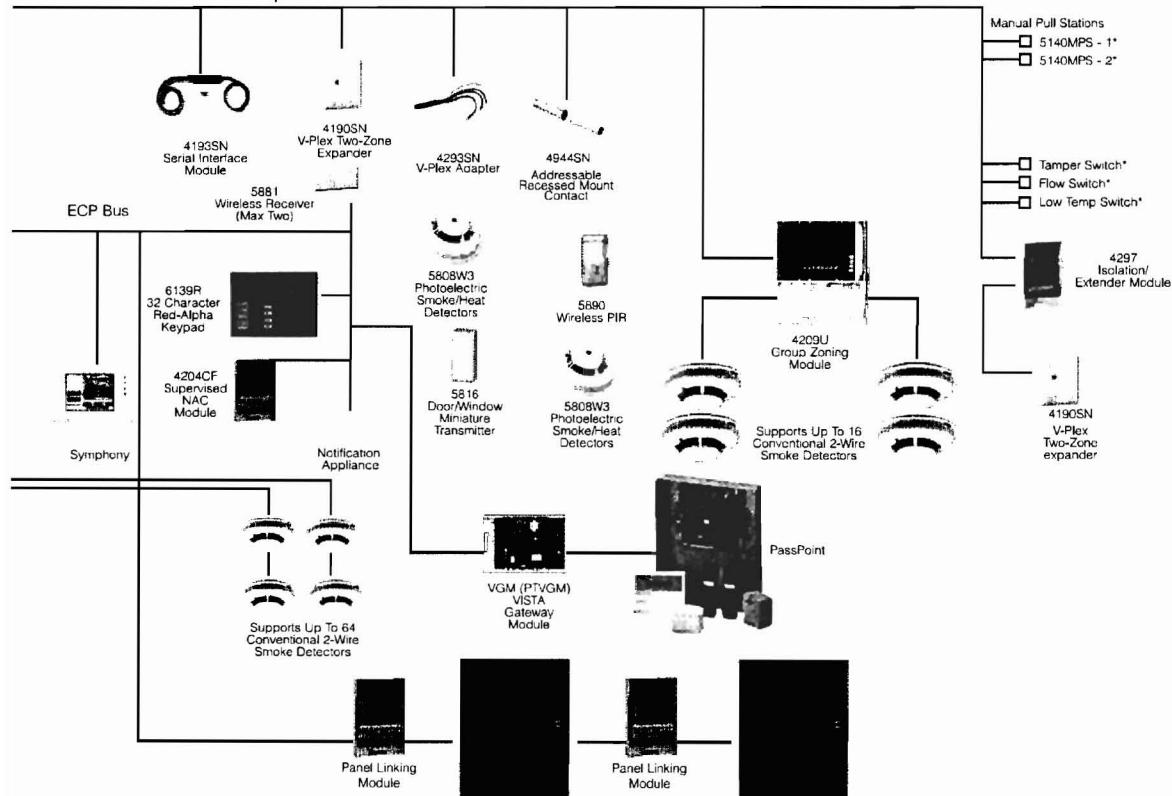
- Storage temp: 14°F to 158°F (-10°C to 70°C)
- Operating temp: 32°F to 122°F (0°C to 50°C)
- Humidity: 85% RH
- EMI: Meets or exceeds the following requirements:
 - FCC Part 15, Class B Device
 - FCC Part 68
 - IEC EMC Directive

Agency Listings Burglary

- UL609 Grade A Local Mercantile Premises and Mercantile Safe and Vault
- UL611/1610 Grades A, AA, Central Station
- UL365 Grades A, AA Police Connect

Fire

- UL864/NFPA72 Local, Central Station and Remote Station
- Factory Mutual
- California State Fire Marshal
- MEA
- UL985



VISTA-128FBP/V128FBP-24

COMMERCIAL FIRE AND PARTITIONED BURGLARY ALARM PLATFORM

SPECIFICATIONS

Auxiliary Devices

- 6160CR – Red Alpha Keypad
- 6139R – Red Alpha Keypad/Annunciator
- FSA-8 & FSA-24 annunciator modules
- 4204 – Relay Module, four form C contacts
- 4204CF – Two supervised output circuits
- 5881 Series – RF receiver supporting 5800 wireless detectors
- 6220S – System printer used with 4100SM serial module

Two-wire smoke detectors conventional

- 2100 Series Photoelectric
- 2400 Series Photoelectric
- 1100 Series Ionization

Four-wire smoke detectors conventional

- 2112/24 Series Photoelectric
- 1412 Series Ionization

Horn/Strobes

- System Sensor Notification Appliances

Manual Pull Stations

- 5140MPS-1
- 5140MPS-2

V-Plex (addressable) Devices

- 4208U Loop Expansion Module – eight zones
- 4101SN Single Relay/Zone Module
- 4208SNF Class A/B Expander Module
- 4209U Group Zoning Module – two/four zones
- 4190SN Remote Point Module – two zones
- 4193SN Two Zone Serial Interface Module
- 4293SN One Zone Serial Interface Module

- 4297 Isolation/Extender Module

V-Plex (addressable) Smoke Detectors:

- 5192SD • 4192SD • 4192CP
- 5192SDT • 4192SDT • 4192CPM
- 4192SDTM

V-Plex Passive Infrared Detectors

- 998MX
- 4275EX-SN
- 4278EX-SN

V-Plex (addressable) Contacts

- 4939SN-WH
- 4944SN-WH
- 4959SN

V-Plex Glassbreak Detectors:

- 9500SN

VISTA interactive phone module

- 4286 Voice Module

Optional 24V Power Supply

- PS24 – 24V power supply – 3.4A Long Range Radio:
- Long Range Radio 7720ULF-XX, 7835C, 7835CF, 7845C

Upgraded software

- Upgraded Compass Downloader Windows compatible

Wireless Devices

- 5804BDV – Bi-directional with voice
- 5804BD – Bi-directional Key
- 5804Watch – Wireless Key & sports watch combined
- 5816 – Door/Window Transmitter
- 5804 – Wireless key
- 5827BD – Bi-directional Keypad
- 5890 – PIR
- 5849 – Glassbreak Detector
- 5819 – Shock Sensor

Commercial Wireless Devices

- 5808W3 – Photoelectric Smoke/Heat Detector
- 5809 – Wireless Heat Detector
- 5817CB – Wireless Commercial Transmitter
- 5869 – Hold-Up Transmitter
- 5881ENHC – Commercial Fire/Burg Receiver

Access Control

- VistaKey V-Plex (addressable) Access Control
- VistaKey-SK Starter Kit
- VistaKey-EX Expansion Kit
- VGM Vista Gateway Module to PassPoint Access Control (Northern Computers)

CCTV

- VistaView-100 CCTV Switcher or Module

Alarm Communications

- Graphical user interface with Internet capability
- Internet Remote Control-Networking Module
- Internet Alarm Communicator (7845i)
- 7845GSM – Digital Cellular Communicator
- 7845i-GSM – Internet and Digital Cellular Communicator

Paging

- VA8201 AlphaNumeric Pager

ORDERING

VISTA-128FBP

Commercial Fire and Partitioned Burglary Alarm Platform 12V Model

V128FBP-24

Commercial Fire and Partitioned Burglary Alarm Platform 24V Model

Honeywell Security & Custom Electronics

Honeywell
2 Corporate Drive
Melville, NY 11747
Tel: 800.467.5875
www.honeywell.com

L/V128FBP/D
March 2007
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Honeywell

6160CR

The 6160CR is an addressable remote keypad intended for use in commercial fire applications with ADEMCO's control platforms. The keys are continuously backlit for convenience and easy visibility. The LCD display is backlit only when a key is depressed*, or when the system is in alarm or trouble condition.

**Note: On some platforms, the LCD may be programmed to remain on at all times (see panel instructions for details).*

FEATURES:

- Four programmable function keys
- Built-in sounder
- Four LED's
 - ARMED
 - READY
 - TROUBLE
 - SUPERVISORY
- Large easy-to-read display
- Red removable door

SPECIFICATIONS:

Physical: 5.250" W x 7.437" H x 1.312" D

Display: Alphanumeric, 32-character (2 lines x 16 characters) LCD back light

LEDs: ARMED (red), READY (green), *TROUBLE (yellow) and *SUPERVISORY (yellow)

- See control panel's instructions for specific applications regarding Trouble and Supervisory LEDs.

Sounder: High-quality speaker

Electrical: 45mA standby
150mA in alarm (sounder, back light and LED on)

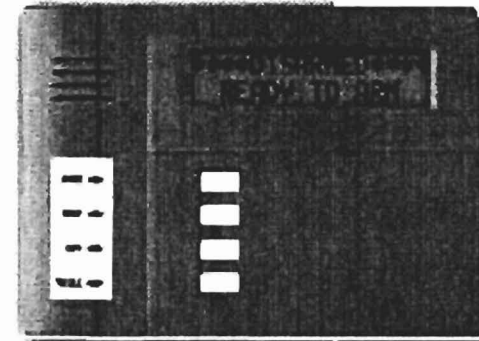
Wiring table (all keypads)

DI	"Data IN" to control panel from keypad
-	Ground (-aux. Power)
+	+12VDC (+aux. Power)
DO	"Data OUT" from control panel to keypad

ORDERING:

Part No.	Description
6160CR	Commercial Fire Alpha Keypad

L/6160CR/D 9/02



**Commercial
Fire
Alpha
Keypad**

Compatibility

Supports Control Platforms:

- VISTA-32FB Rev. 3 and higher
- VISTA-128FB Rev. 4 and higher
- VISTA-128FBP
- VISTA-250FBP
- V128FBP-24
- V250FBP-24

165 Eileen Way, Syosset, NY 11791

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**ADEMCO
GROUP**

5192SD/5192SDT V-PLEX® SMOKE DETECTOR



The Honeywell 5192 Series low profile, addressable V-Plex smoke detectors deliver state-of-the-art features and benefits in a cost-effective package. These detectors are designed to provide open area coverage and are compatible with Honeywell's VISTA controls supporting V-Plex technology.

An LED on the detector will blink periodically during normal conditions, remain on steady during alarm and cease to pulse if the chamber is out of acceptable sensitivity range.

An extremely powerful feature available within the 5192 Series is the Automatic Maintenance Alert/Reporting capability – a feature normally found in today's high end analog addressable systems. The detectors continually monitor their own sensitivity levels in addition to the basic normal and alarm conditions. These HIGH and LOW SENSITIVITY signals are communicated back to the

control, via the V-Plex addressable loop, to indicate locally and at the central station that the detector may not be able to detect smoke or may false alarm. This feature works with VISTA-32FB, 128BP, 128FBP, 250BP, 250FBP, 40, 50P, 100-24 and FAP FA1600C, FA1660C and FA1700C. More important is the cost saving associated with Automatic Maintenance Reporting. The feature is an approved alternate to NFPA 72 field sensitivity calibration testing that require external test meters. This eliminates the need to schedule inspections to determine detector sensitivity/viability. Another important benefit of these V-Plex (addressable) smoke detectors is their ability to operate on existing wiring.

There is no need to run special twisted pair, data grade or shielded wires, providing you with the right choice for all your retrofit applications. That equates to cost savings in time and materials!

FEATURES

- Low profile design
- V-Plex addressable loop device
- Automatic maintenance reporting
- Available with integral heat sensor
- Simple 2 wire installation
- DIP switch or serial number programmable
- Lines on existing or conventional wiring

APPLICATIONS

The 5192 Series smoke detectors are designed to provide open area coverage and are well suited for most fire detection applications. These smoke detectors are compatible with all Honeywell VISTA Fire and Burglary controls that support V-Plex addressable loop technology. These agency listed alarm initiating devices support most commercial and residential applications. They are suited for use in museums, hospitals, day care centers, retail stores, strip malls, schools, libraries, fast food chains, medical or professional office suites and in factory and warehouse environments.

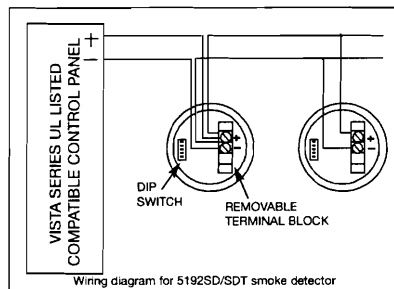
5192SD/5192SDT

V-PLEX™ SMOKE DETECTOR

SPECIFICATIONS

Installation

The 5192 Series smoke detectors are supplied with a convenient mounting bracket that allows the detector to be mounted to a variety of electrical junction boxes. A removable terminal block, that accepts 14 to 22 gauge wire to provide easy wiring connections. The detectors are designed to meet all applicable requirements for UL Commercial and Residential Fire installations as well as NFPA 72 requirements when installed in compliance with the National Electric Code and approved/listed control panels.



Compatibility

These smoke detectors are compatible with all VISTA control panels that support V-Plex (addressable) polling loop technology. The detectors support DIP switch or serial number addressing. DIP switch configuration are compatible with 5140XM, VISTA-40, and VISTA-50P controls.

Serial number addressing is supported on VISTA-32FB, 128BP, 128FBP, 250BP, 250FBP, 100-24 and FAP FA1600C, FA1660C and FA1700C controls. (Refer to control panel and smoke detector installation instructions for details.)

Automatic Maintenance Reporting Compatibility

The automatic maintenance feature is compatible with the following control panels:

- VISTA-32FB
- VISTA-128BP
- VISTA-128FBP
- VISTA-250BP
- VISTA-250FBP
- FA1600C
- FA1660C
- FA1700C

The automatic maintenance may be disabled for all other controls that do not support this feature. Refer to control panel and smoke detector Installation Instructions for details.

Electrical:

- System voltage range: 7-14 V
- Standby current (maximum @ 12V):
 - LED off: 1.2mA
 - LED on: 2.8mA

Mechanical:

- Diameter: 5.5 inches (140mm) (including mounting bracket)
- Height: 1.7 inches (43mm) (including mounting bracket)
- Weight: 5.3 ounces (150 grams)

Environmental:

- Installation temperature range: 32° to 100°F (0° to 38°C)
- Installation humidity range: 10% to 93% RH, non-condensing
- Heat sensor (5192SDT only): 135°F fixed temperature electronic thermistor
- EMI: Meets or exceeds the following requirements:
 - FCC Part 15, Class B Device
 - IEC EMC Directive

Agency Listings

- UL268 Commercial System Smoke Detector
- Meets UL 217 Requirements for Residential

ORDERING

5192SD Addressable Photoelectric Smoke Detector

5192SDT Addressable Photoelectric Smoke Detector with Integral Heat Sensor

For more information: www.honeywell.com/security/hsc

Automation and Control Solutions

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L/5192/D
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Honeywell



5140MPS-1 / 5140MPS-2 Manual Pull Stations

PRIMARY FEATURES

- ADA COMPLIANT
- KEY TEST OR ALLEN RESET
- KEYED TO ADEMCO CONTROLS
- STYLIZED HIGH TECH DESIGN
- ALUMINUM DIE CAST HOUSING
- TERMINAL BLOCK OR WIRE LEADS
- GOLD CONTACTS
- UL LISTED

■ GENERAL DESCRIPTION

Ademco's manual fire alarm stations are designed to be non-code single action devices for use in UL listed fire alarm applications. The attractive die-cast aluminum-alloy housing meets ADA pull requirements and has been tested at Underwriter's Laboratory.

For ADA compliance, manual stations must be mounted less than 48" above the floor for front wheelchair access and less than 54" above the floor for side wheelchair access.

A key reset feature on the 5140MPS-1 is designed for positive authorized resetting action. The key is designed to operate and match Ademco controls. The 5140MPS-1 utilizes a terminal block for secure terminations. The 5140MPS-2 is furnished with an Allen hex fitting and is equipped with wire leads.

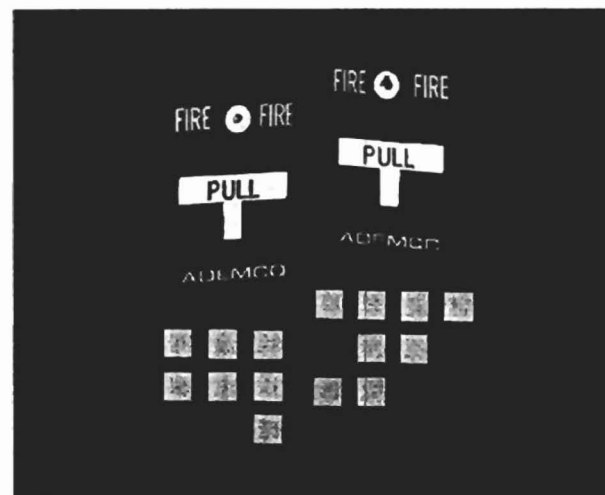
Two alarm deterrent break tubes are supplied with each manual station; one tube is visible from the front, and the spare is stored in a compartment within the unit.

■ OPERATION

Pulling the handle down causes the manual stations to latch in the down position and to close the normally open switch. The handle is restored manually by using the key to unlock the station and pivot the station forward for resetting the pull handle to its normal position. The crush tube is then inserted in the cavity and the station assembly is then locked in the normal upright position.

■ CONSTRUCTION

The 5140MPS-1 and 5140MPS-2 manual stations are constructed of a durable die-cast aluminum-alloy and



provide a neat and distinctive appearance. The housing is finished in red with white raised lettering and the "T-bar" handle is white with raised red lettering for enhanced visibility. The units are adaptable to both surface and semi-flush mounting configurations.

■ MOUNTING

SEMI-FLUSH MOUNT

Most semi-flush mount installations can be attached to a standard single-gang switch box using two 6-32 screws inserted through the slots that are centered on the unit's metal mounting plate.

SURFACE MOUNT

Use Ademco Backbox model number 5140MPS-BB for surface mount installations. The Backbox has four pre-drilled mounting holes of 0.187 inch diameter and conduit knockouts. Secure the Backbox to a wall with screws of size 8 or smaller. After the Backbox is in place, attach the conduit.

The housing is locked by using a key or Allen wrench lock. Unlock the housing by turning the key clockwise and swinging down the front of the housing to make the sheet metal mounting plate accessible. Mount the metal plate to the Backbox using the four 1/4" long, 8-32 screws (supplied).

■ DIMENSIONS

4.75" H x 3.12" W x 2" D

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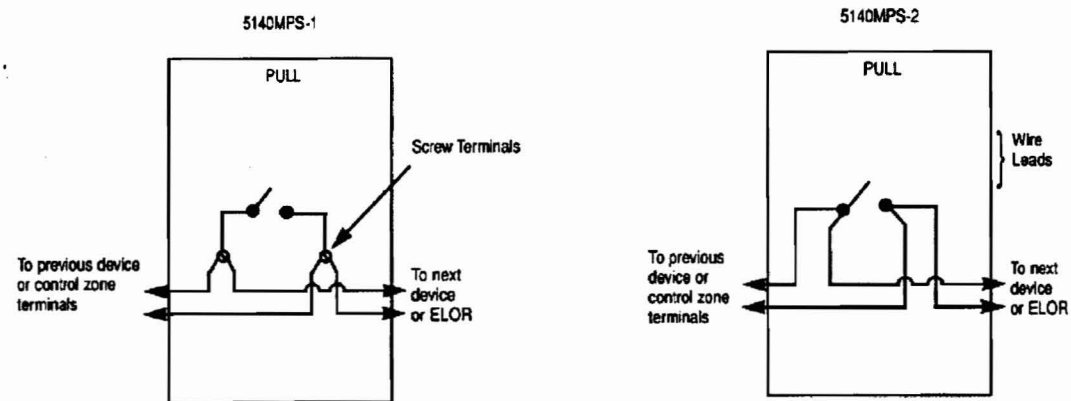
■ ORDERING INFORMATION

5140MPS-1: Manual Station
Key Reset Test
and Terminal Block

5140MPS-2: Manual Station
Hex Allen Reset
Test and Wire Leads

5140MPS-BB: Surface Backbox

■ WIRING DIAGRAM



ARCHITECTURAL/ENGINEERING SPECIFICATIONS

Manual Fire Alarm Stations Model 5140MPS-1 (5140MPS-2) shall be non-coded and include a break-type tube operated test/reset lock allowing testing with a key (Allen wrench). They shall be designed so that normal operation cannot be restored after an actual Fire Emergency Operation except by use of a key (Allen wrench). The key shall fit all standard Ademco controls.

An operated station shall automatically condition itself so as to be visually detected, as operated, at a mini-

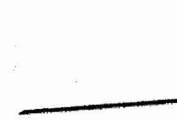
imum distance of one hundred feet. Front of side Manual Stations shall be constructed of die cast aluminum alloy with clearly visible operating instructions provided on the cover. The word FIRE shall appear on the front of the stations in raised letters. Stations shall be suitable for surface mounting on matching Backbox, or surface flush mounting on a standard single-gang box. Manual Stations shall be Underwriters Laboratories Listed.

ADEMCO

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5881ENHC

COMMERCIAL WIRELESS RECEIVER



The new 5881ENHC RF Receiver is designed for use with control panels that are approved for use in commercial fire and/or burglary installations. The receiver recognizes alarm, status and keypad control messages from wireless

transmitters operating at 345 MHz. The receiver also features a Spatial Diversity System that virtually eliminates "nulls" and "dead spots" within the coverage area.

FEATURES

- Front and back tamper for commercial fire/burg installations
- One or two receivers can be used to provide redundant coverage or extend coverage in large areas
- Spatial Diversity System virtually eliminates "nulls" and "dead spots" within the coverage area
- Can be mounted remotely, anywhere on the keypad bus, for extended coverage
- Compatible with all 5800 series wireless devices
- Connects to control panel via the keypad bus
- UL listed for Commercial Fire/Burg applications

COMPATIBLE CONTROLS

- VISTA-32FB
- VISTA-128BP
- VISTA-128FBP
- VISTA-250BP
- VISTA-250FBP
- FA1600 series
- FA1700 series

SPECIFICATIONS

Dimensions

- 7-3/8" W x 4-3/8" (10-7/8" with antennas) H x 1-7/16" D
188mm W x 112mm H
(277mm with antennas) x 37mm D

Input Voltage

- 12VDC (from control's keypad terminals)

Current

- 60mA (typical)

Operating Temperature

- 32° F to 122° F
(0° C to 50° C)

ORDERING

5881ENHC

Commercial Wireless Receiver

Interface Wiring

- RED: 12VDC input (+) Aux. power
- GREEN: Data out to control
- YELLOW: Data in from control
- BLACK: Ground (-)

Range

- 200 ft (60m) nominal indoors from wireless transmitters (the actual range to be determined with the security system in the Test mode)

Installation

- See product installation instructions for details on programming and mounting

UL Listings

- Commercial Fire UL 864
- Household Fire UL 985
- Household Burg UL 1023
- Commercial Burg UL 365, UL 609, UL 1076, UL 1610
- FM
- MEA
- CSFM

Automation and Control Solutions

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Honeywell



Selectable Output Horns, Strobes, and Horn/Strobes

SpectrAlert® Advance selectable-output horns, strobes, and horn/strobes are rich with features guaranteed to cut installation times and maximize profits.

The **SpectrAlert Advance series** of notification appliances is designed to simplify installations, with features such as plug in designs, instant feedback messages to ensure correct installation of individual devices, and 11 field-selectable candela settings for wall and ceiling strobes and horn/strobes.

When installing Advance products, first attach a universal mounting plate to a four-inch square, four-inch octagon or double-gang junction box. The two-wire mounting plate attaches to a single-gang junction box.

Next, connect the notification appliance circuit wiring to the SEMS terminals on the mounting plate.

Finally, attach the horn, strobe or horn/strobe to the mounting plate by inserting the product's tabs in the mounting plate's grooves. The device will rotate into position, locking the product's pins into the mounting plate's terminals. The device will temporarily hold in place with a catch until it is secured with a captured mounting screw.

The SpectrAlert Advance series includes outdoor notification appliances. Outdoor strobes and horn/strobes (two wire and four wire) are available for wall or ceiling. Outdoor horns are available for wall only. All System Sensor outdoor products are rated between minus 40 degrees Fahrenheit and 151 degrees Fahrenheit in wet or dry applications.



SPECTRAlert
ADVANCE
from System Sensor

Features

- Electrically compatible with existing SpectrAlert products
- Automatic selection of 12- or 24-volt operation at 15 and 15/75 candela
- Plug-in design
- Field selectable candela settings on wall and ceiling units: 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, 185
- Same mounting plate for wall- and ceiling-mount units
- Shorting spring on mounting plate for continuity check before installation
- Tamper resistant construction
- Outdoor wall and ceiling products rated from -40°F to 151°F
- Design allows minimal intrusion into the back box
- Horn rated at 88+ dbA at 16 volts
- Rotary switch for horn tone and three volume selections
- Outdoor products UL listed to UL 1638 (strobe) and UL 464 (horn) outdoor requirements
- Outdoor products rainproof per UL 50 (NEMA 3R)
- Compatible with MDL sync module

Agency Listings

SIGNALING



54011
55512
53593



3023572



ME4452-05-E



7125-1653-186 (indoor strobes)
7300-1653-187 (outdoor strobes)
7125-1653-188 (horns/strobes,
chime/strobes)
7135-1653-189 (horns, chimes)

SpectrAlert Advance Specifications

Architect/Engineer Specifications

General

SpectrAlert Advance horns, strobes and horn/strobes shall mount to a standard 4 × 4 × 1½-inch back box, 4-inch octagon back box or double-gang back box. Two-wire products shall also mount to a single-gang 2 × 4 × 1½-inch back box. A universal mounting plate shall be used for mounting ceiling and wall products. The notification appliance circuit wiring shall terminate at the universal mounting plate. Also, SpectrAlert Advance products, when used with the Sync-Circuit™ Module accessory, shall be powered from a non-coded notification appliance circuit output and shall operate on a nominal 12 or 24 volts. When used with the Sync-Circuit Module, 12-volt rated notification appliance circuit outputs shall operate between nine and 17.5 volts; 24-volt rated notification appliance circuit outputs shall operate between 17 and 33 volts. Indoor SpectrAlert Advance products shall operate between 32 and 120 degrees Fahrenheit from a regulated DC, or full-wave rectified, unfiltered power supply. Strobes and horn/strobes shall have field-selectable candela settings including 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, 185.

Strobe

The strobe shall be a System Sensor SpectrAlert Advance Model _____ listed to UL 1971 and shall be approved for fire protective service. The strobe shall be wired as a primary-signaling notification appliance and comply with the Americans with Disabilities Act requirements for visible signaling appliances, flashing at 1Hz over the strobe's entire operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system.

Horn/Strobe Combination

The horn/strobe shall be a System Sensor SpectrAlert Advance Model _____ listed to UL 1971 and UL 464 and shall be approved for fire protective service. The horn/strobe shall be wired as a primary-signaling notification appliance and comply with the Americans with Disabilities Act requirements for visible signaling appliances, flashing at 1Hz over the strobe's entire operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system. The horn shall have three audibility options and an option to switch between a temporal three-pattern and a non-temporal (continuous) pattern. These options are set by a multiple position switch. On four-wire products, the strobe shall be powered independently of the sounder. The horn on horn/strobe models shall operate on a coded or non-coded power supply.

Outdoor Products

SpectrAlert Advance outdoor horns, strobes and horn/strobes shall be listed for outdoor use by UL and shall operate between minus 40 degrees and 151 degrees Fahrenheit. The products shall be listed for use with a System Sensor outdoor/weatherproof back box with half inch and three-fourths inch conduit entries.

Synchronization Module

The module shall be a System Sensor Sync-Circuit model MDL listed to UL 464 and shall be approved for fire protective service. The module shall synchronize SpectrAlert strobes at 1Hz and horns at temporal three. Also, while operating the strobes, the module shall silence the horns on horn/strobe models over a single pair of wires. The module shall mount to a 4½/16 × 4½/16 × 2½/8-inch back box. The module shall also control two Style Y (class B) circuits or one Style Z (class A) circuit. The module shall synchronize multiple zones. Daisy chaining two or more synchronization modules together will synchronize all the zones they control. The module shall not operate on a coded power supply.

Physical/Electrical Specifications

Standard Operating Temperature	32°F to 120°F (0°C to 49°C)
K Series Operating Temperature	-40°F to 151°F (-40°C to 66°C)
Humidity Range	10 to 93% non-condensing (indoor products)
Strobe Flash Rate	1 flash per second
Nominal Voltage	Regulated 12DC/FWR or regulated 24DC/FWR ¹
Operating Voltage Range ²	8 to 17.5 V (12V nominal) or 16 to 33 V (24 nominal)
Input terminal wire gauge	12 to 18 AWG
Ceiling mount dimensions (including lens)	6.8" diameter × 2.5" high (173 mm diameter × 64 mm high)
Wall mount dimensions (including lens)	5.6" L × 4.7" W × 2.5" D (142 mm L × 119 mm W × 64 mm D)
Horn dimensions	5.6" L × 4.7" W × 1.3" D (142 mm L × 119 mm W × 33 mm D)
Wall-mount back box skirt dimensions (BBS-2, BBSW-2)	5.9" L × 5.0" W × 2.2" D (151 mm L × 128 mm W × 56 mm D)
Ceiling-mount back box skirt dimensions (BBSC-2, BBSCW-2)	7.1" diameter × 2.25" high (180 mm diameter × 57 mm high)
Wall-mount weatherproof back box dimensions (SA-WBB)	5.7" L × 5.1" W × 2.0" D (145 mm L × 130 mm W × 51 mm D)
Ceiling-mount weatherproof back box dimensions (SA-WBBC)	7.1" diameter × 2.0" high (180 mm diameter × 51 mm high)

Notes:

1. Full Wave Rectified (FWR) voltage is a non-regulated, time varying power source that is used on some power supply and panel outputs.
2. P, S, PC, and SC products will operate at 12 V nominal only for 15 and 15/75 cd.

UL Current Draw Data

UL Max. Strobe Current Draw (mA RMS)						UL Max. Horn Current Draw (mA RMS)					
	Candela	8-17.5 Volts		16-33 Volts		Sound Pattern	dB	8-17.5 Volts		16-33 Volts	
		DC	FWR	DC	FWR			DC	FWR	DC	FWR
Standard	15*	123	128	66	71	Temporal	High	57	55	69	75
Candela Range	15/75*	142	148	77	81	Temporal	Medium	44	49	58	69
	30*	NA	NA	94	96	Temporal	Low	38	44	44	48
	75*	NA	NA	158	153	Non-temporal	High	57	56	69	75
	95*	NA	NA	181	176	Non-temporal	Medium	42	50	60	69
	110	NA	NA	202	195	Non-temporal	Low	41	44	50	50
	115	NA	NA	210	205	Coded	High	57	55	69	75
High	135	NA	NA	228	207	Coded	Medium	44	51	56	69
Candela Range	150	NA	NA	246	220	Coded	Low	40	46	52	50
	177	NA	NA	281	251						
	185	NA	NA	286	258						

UL Max. Current Draw (mA RMS), 2-wire Horn/Strobe, Standard Candela Range (15-115 cd)

DC Input	8-17.5 Volts		16-33 Volts		30	75	95	110	115
	15	15/75	15	15/75					
Temporal High	137	147	79	90	107	176	194	212	218
Temporal Medium	132	144	69	80	97	157	182	201	210
Temporal Low	132	143	66	77	93	154	179	198	207
Non-temporal High	141	152	91	100	116	176	201	221	229
Non-temporal Medium	133	145	75	85	102	163	187	207	216
Non-temporal Low	131	144	68	79	96	156	182	201	210
FWR Input									
Temporal High	136	155	88	97	112	168	190	210	218
Temporal Medium	129	152	78	88	103	160	184	202	206
Temporal Low	129	151	76	86	101	160	184	194	201
Non-temporal High	142	161	103	112	126	181	203	221	229
Non-temporal Medium	134	155	85	95	110	166	189	208	216
Non-temporal Low	132	154	80	90	105	161	184	202	211

UL Max. Current Draw (mA RMS), 2-wire Horn/Strobe, High Candela Range (135-185 cd)

DC Input	16-33 Volts				FWR Input	16-33 Volts			
	135	150	177	185		135	150	177	185
Temporal High	245	259	290	297	Temporal High	215	231	258	265
Temporal Medium	235	253	288	297	Temporal Medium	209	224	250	258
Temporal Low	232	251	282	292	Temporal Low	207	221	248	256
Non-temporal High	255	270	303	309	Non-temporal High	233	248	275	281
Non-temporal Medium	242	259	293	299	Non-temporal Medium	219	232	262	267
Non-temporal Low	238	254	291	295	Non-temporal Low	214	229	256	262

Candela Derating

For K series products used at low temperatures, listed candela ratings must be reduced in accordance with this table.

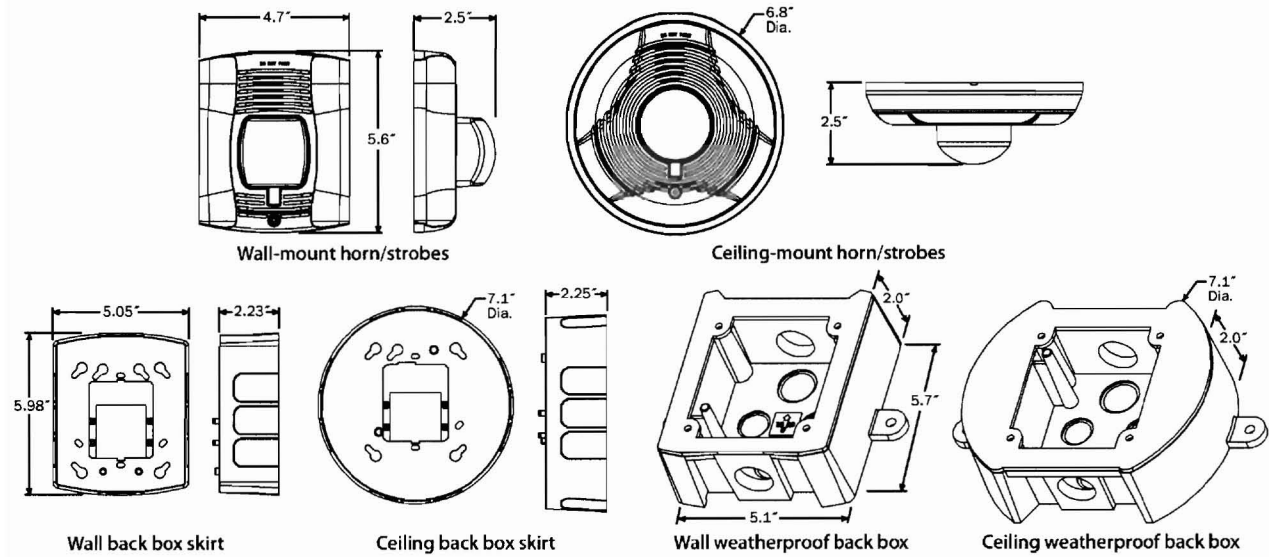
Strobe Output (cd)	
Listed Candela	Candela rating at -40°F
15	Do not use below 32°F
15/75	
30	
75	44
95	70
110	110
115	115
135	135
150	150
177	177
185	185

Horn Tones and Sound Output Data

Horn and Horn/Strobe Output (dBA)				8-17.5 Volts		16-33 Volts		24 Volt Nominal			
Switch Position	Sound Pattern	dB	8-17.5 Volts		16-33 Volts		Reverberant		Anechoic		
			DC	FWR	DC	FWR	DC	FWR	DC	FWR	
1	Temporal	High	78	78	84	84	88	88	99	98	
2	Temporal	Medium	74	74	80	80	86	86	96	96	
3	Temporal	Low	71	73	76	76	83	80	94	89	
4	Non-temporal	High	82	82	88	88	93	92	100	100	
5	Non-temporal	Medium	78	78	85	85	90	90	98	98	
6	Non-temporal	Low	75	75	81	81	88	84	96	92	
7†	Coded	High	82	82	88	88	93	92	101	101	
8†	Coded	Medium	78	78	85	85	90	90	97	98	
9†	Coded	Low	75	75	81	81	88	85	96	92	

†Settings 7, 8, and 9 are not available on 2-wire horn/strobe.

SpectrAlert Advance Dimensions



SpectrAlert Advance Ordering Information

Model	Description
Wall Horn/Strobes	
P2R*†	2-wire Horn/Strobe, Standard cd†, Red
P2RH*	2-wire Horn/Strobe, High cd, Red
P2RK*	2-wire Horn/Strobe, Standard cd, Red, Outdoor
P2RHK*	2-wire Horn/Strobe, High cd, Red, Outdoor
P2W*	2-wire Horn/Strobe, Standard cd, White
P2WH*	2-wire Horn/Strobe, High cd, White
P4R*	4-wire Horn/Strobe, Standard cd, Red
P4RH*	4-wire Horn/Strobe, High cd, Red
P4RK	4-wire Horn/Strobe, Standard cd, Red, Outdoor
P4RHK	4-wire Horn/Strobe, High cd, Red, Outdoor
P4W*	4-wire Horn/Strobe, Standard cd, White
P4WH*	4-wire Horn/Strobe, High cd, White
Wall Strobes	
SR**	Strobe, Standard cd, Red
SRH*†	Strobe, High cd, Red
SRK	Strobe, Standard cd, Red, Outdoor
SRHK	Strobe, High cd, Red, Outdoor
SW*	Strobe, Standard cd, White
SWH*	Strobe, High cd, White
Ceiling Horn/Strobes	
PC2R*	2-wire Horn/Strobe, Standard cd, Red
PC2RH*	2-wire Horn/Strobe, High cd, Red
PC2RK	2-wire Horn/Strobe, Standard cd, Red, Outdoor
PC2RHK	2-wire Horn/Strobe, High cd, Red, Outdoor

Model	Description
Ceiling Horn/Strobes (cont'd.)	
PC2W*†	2-wire Horn/Strobe, Standard cd, White
PC2WH*†	2-wire Horn/Strobe, High cd, White
PC4R	4-wire Horn/Strobe, Standard cd, Red
PC4RH	4-wire Horn/Strobe, High cd, Red
PC4RK	4-wire Horn/Strobe, Standard cd, Red, Outdoor
PC4RHK	4-wire Horn/Strobe, High cd, Red, Outdoor
PC4W	4-wire Horn/Strobe, Standard cd, White
PC4WH	4-wire Horn/Strobe, High cd, White
Ceiling Strobes	
SCR*	Strobe, Standard cd, Red
SCRH*	Strobe, High cd, Red
SCRK	Strobe, Standard cd, Red, Outdoor
SCRHK	Strobe, High cd, Red, Outdoor
SCW*†	Strobe, Standard cd, White
SCWH*†	Strobe, High cd, White
Horns	
HR	Horn, Red
HRK	Horn, Red, Outdoor
HW	Horn, White
Accessories	
BBS-2	Back Box Skirt, Wall, Red
BBSW-2	Back Box Skirt, Wall, White
BBSC-2	Back Box Skirt, Ceiling, Red
BBSCW-2	Back Box Skirt, Ceiling, White

Notes:

* Add "-P" to model number for plain housing (no "FIRE" marking on cover), e.g., P2R-P

† Add "-SP" to model number for "FUEGO" marking on cover, e.g., P2R-SP

‡ "Standard cd," refers to strobes that include 15, 15/75, 30, 75, 95, 110, and 115 candela settings. "High cd," refers to strobes that include 135, 150, 177, and 185 candela settings.

All outdoor units ending in "K" include a weatherproof back box.



3825 Ohio Avenue • St. Charles, IL 60174
Phone: 800-SENSOR2 • Fax: 630-377-6495

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A03-0395-003 - 12/06 - #1676

Heat Detectors Series 600

The Heat Detectors Series 600 are supplied with the following standard features:

- Rate-of-Rise and Fixed Temperature
- One or Two-Circuit, Normally Open
- Easy Installation
- Low Profile
- Visual Indication
- Operation Testing

Description

The Series 600 Heat Detector is a features combination rate-of-rise & operation. Heat detectors are available in various temperature ratings.

Rate-of-rise detects heat by quick temperature increase. Rate-of-rise allows for a 50-foot center. See details.

Fixed temperature reacts to heat at a user-set temperature setting.

Series 600 Detectors use the same sensing element of former models, but with a new appeal.

The pneumatic rate-of-rise element detects temperature, approximately 15°F. The expansion of air within the sealed chamber faster than it can escape through a calibrated vent. The resultant increase in pressure depresses the diaphragm, causing the electrical contact to close the circuit.

The fixed temperature element uses a fusible alloy. When activated, the external heat collector drops away to provide quick visual confirmation that the element has operated.

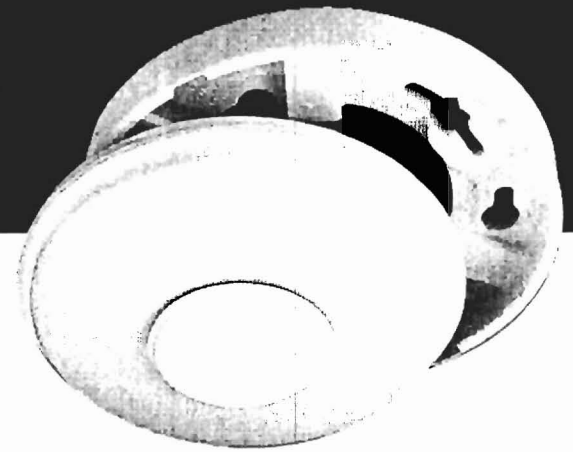
The units protrude only 1-3/8 inch from the ceiling surface with a junction box mounting. They have pleasing contours and an all-white finish that conforms to ceiling aesthetics.

Installation

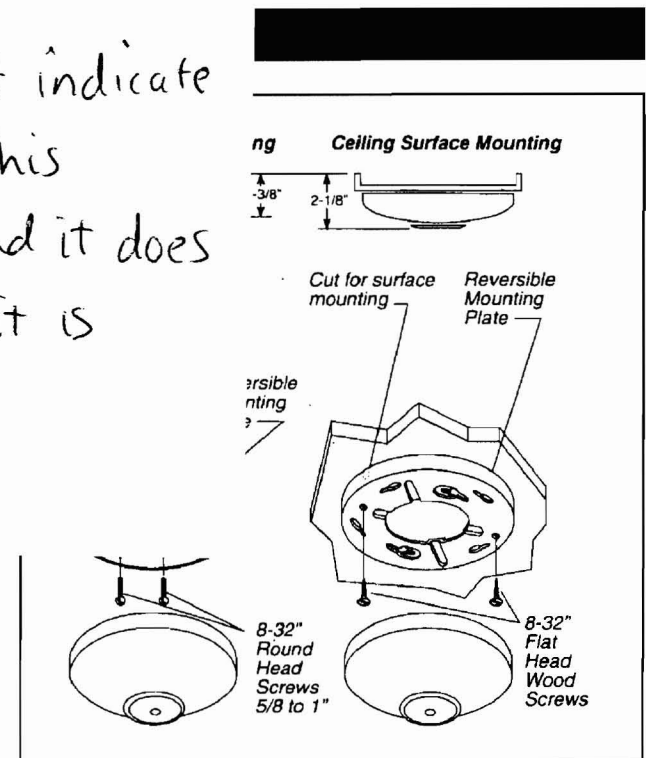
Each detector includes a patented reversible mounting plate. In one position, it easily attaches to 3.25" or 4" octagonal box, or plaster ring.

In reverse, the plate can be used for open wiring without a junction box. A 1/4" space between detector and mounting surface allows for wire connections. All mounting screws are concealed.

The detector attaches easily to the mounting plate with a push and twist motion. No tools are required.



Plans do not indicate a use for this detector and it does not indicate it is cross listed.



Mounting plate is molded of white self-extinguishing thermoplastic rated at 221°F (105°C). The plate is extremely strong yet adapts to uneven mounting surfaces.

Series 600 Testing Methods

Models 601/621 and 602/622 can be tested by the quick application of heat from any convenient source. A portable hair dryer is recommended. However, do not apply heat that exceeds the fixed temperature rating of the detector.

Models 603/623 and 604/624 cannot be tested. However, the fusible alloy element used is considered so reliable that testing is not necessary.

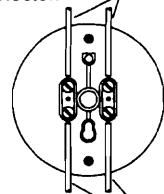
Model 601 and 621	Model 602 and 622	Model 603 and 623	Model 604 and 624
No Marking Model 601 (1 circuit) Model 621 (dua circuit)	Gray Ring Model 602 (1 circuit) Model 622 (dual circuit)	Gray Spot Model 603 (1 circuit) Model 623 (dual circuit)	Gray Ring and Dot Model 604 (1 circuit) Model 624 (dual circuit)
Rate-of-Rise and Fixed Temperature, 135°F (57°C)	Rate-of-Rise and Fixed Temperature, 200°F (94°C)	Fixed Temperature only, 135°F (57°C)	Fixed Temperature only, 200°F (94°C)
Applications: Normal temperature fluctuations and ceiling temperatures not exceeding 100°F (38°C)	Applications: Normal temperature fluctuations and ceiling temperatures exceeding 100°F (38°C) but not 150°F (66°C)	Applications: Unusually violent temperature fluctuations and ceiling temperatures not exceeding 100°F (38°C)	Applications: Unusually violent temperature fluctuations and ceiling temperatures exceeding 100°F (38°C) but not 150°F (66°C)
Maximum Spacing Allowance* - 50 x 50 ft. - UL 30 x 30 ft. - FM	Maximum Spacing Allowance* - 50 x 50 ft. - UL 30 x 30 ft. - FM	Maximum Spacing Allowance* - 25 x 25 ft. - UL 20 x 20 ft. - FM	Maximum Spacing Allowance* - 15 x 15 ft. - UL

*Refer to National Fire Alarm Code Standard NFPA 72 for application requirements

Screw Terminals

Standard Single Circuit Detector

Wire from alarm panel or previous detector.

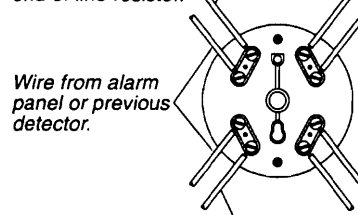


Wire connected to next detector or end of line resistor.

NOTE: All single circuit models come with one (1) normally open dry contact.

Dual Circuit Detector Used to send two independent signals.

Wire connected to next detector or end of line resistor.



Wire connected to next detector or end of line resistor.

NOTE: All dual circuit models come with one (2) normally open dry contacts.

Important Special Notes

Application: Heat detectors should be used for property protection. Reliance should not be placed on heat detectors for Life Safety.

CAUTION: When life safety is involved, smoke detectors MUST also be used. Detectors must not be painted.

Battery Back-Up: Heat detectors should be electronically supervised with battery back-up at the panel.

The rate-of-rise mechanism may be subject to reduced sensitivity over time. Annual testing of the rate-of-rise mechanism is recommended.

Electrical Ratings

6-125 Volts A.C., 3.0 Amps.
6-28 Volts D.C., 1.0 Amps.
125 Volts D.C., 0.3 Amps.
250 Volts D.C., 0.1 Amps.

Listings/Approvals

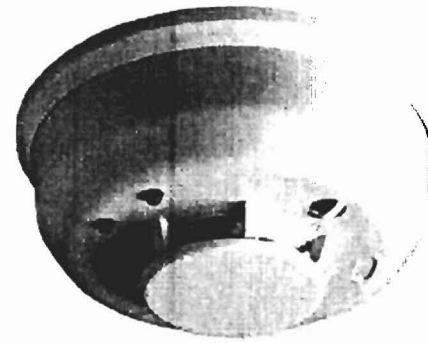
- Listed by Underwriters Laboratories (UL)
- Factory Mutual Approved (FM)
- California State Fire Marshal Approval (CSFM)
- City of New York (MEA) Listing No. 188-94-E
- Listed by Underwriters' Laboratories of Canada (ULC)

This literature is provided for informational purposes only. CHEMETRONICS assumes no responsibility for the product's suitability for a particular application. The product must be properly applied to work correctly. If you need more information on this product, or if you have a particular problem or question, contact CHEMETRONICS, Ashland, MA; Telephone (800) 496-8383.

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Website: www.chemetronics.com

5808W3

PHOTOELECTRIC SMOKE/HEAT
DETECTOR WITH BUILT-IN
WIRELESS TRANSMITTER



Honeywell's 5808W3 is a 3V lithium powered, photoelectric smoke/heat detector with a built-in wireless transmitter. It is intended for use with any 5800 Series Wireless Receiver/Transceiver for residential installations (for commercial installations, the 5881ENHC or the 5883H receiver is required).

The transmitter can send alarm, tamper, maintenance (when control panels are equipped to process maintenance signals), and battery condition messages to the system's receiver.

Smoothing algorithms minimize nuisance alarms by smoothing out short term spikes from dust and smoke – virtually eliminating nuisance alarms.

Since there are no holes to drill or wires to run, you can preserve the beauty of the building while protecting it. The 5808W3 is an ideal smoke detector for those difficult to wire locations, applications where room aesthetics are critical, or where hazardous materials exist.

All models also feature a restorable, built-in, fixed temperature (135°F) thermal detector that is also capable of sensing a pre-freeze condition if the temperature is below 41°F.

FEATURES

- **Improved Robust RF Field Strength**

The distance between the detector and receiver has been significantly increased without the need for a repeater

- **Smoothing Algorithms**

Mathematical calculations in the detector's software that minimize nuisance alarms by smoothing out short term spikes from dust and smoke

- **Smart Check**

A signal is sent to the control panel when the detector requires cleaning. This allows a regular, non-emergency service call to clean the detector before it goes into alarm.

- **Drift Compensation**

Virtually eliminates nuisance alarms from long-term dust build-up by automatically adjusting the detector's sensitivity

- **Removable Detector Cover and Chamber Top**

The technician is able to quickly and easily clean the detector chamber without disassembling the detector head

- **Approved UL Listings for Residential and Commercial Applications**

Both residential and commercial installation requirements are met

- **Additional LED Status Indicators**

Identifying between alarm or trouble conditions is a snap with green and red LED status indicators. A green LED denotes a normal condition while the red LED indicates abnormal conditions.

- **Easy-to-install Mounting Base**

The sturdy mounting base allows the detector to be more easily installed on uneven surfaces (i.e. stucco). The mounting base has larger mounting ports, which accommodate drywall anchors for easy surface mounting.

ADDITIONAL FEATURES:

- Utilizes one long-life 3V lithium battery
- Microcontroller runs on a 4.0 MHz clock
- Horn operates at 3.3 KHz with sound pressure level of 85 dBA at 10 feet
- Built-in wireless transmitter, temporal code 3 sounder
- Maintenance signal fully complies with the sensitivity test requirement specified in NFPA 72, 7-2.2 and is approved by UL

5808W3

PHOTOELECTRIC SMOKE/HEAT DETECTOR WITH BUILT-IN WIRELESS TRANSMITTER

SPECIFICATIONS

- **Dimensions**
 - Diameter: 5.3" *, Height: 2.30"
- **Weight**
 - 8.5 ounces (without batteries)
- **Operating Temperature**
 - 32–100° F (0–37.8° C)
- **Humidity Range**
 - 0% to 95% RH, non-condensing
- **Air Velocity**
 - 1,000 ft./min. max.
- **Operating Voltage**
 - 2.5–3.6VDC
- **Standby Current**
 - 8.5 mA avg.
- **Alarm Current**
 - 35 mA max.
- **Power Source**
 - One 3V CR123A lithium Battery†
- **Audible Output**
 - 85 dB min. at 10 ft.
- **Fixed Temperature Heat Sensor**
 - 135° F Fixed
- **Agency Listings**
 - UL268 – Commercial and Residential

* With adapter bracket (4.9" without mounting base)

† Replacement batteries include Duracell DL123A, Sanyo CR123A, Panasonic CR123A, or ADEMCO 466

ACCESSORIES (sold separately)

SENS-RDR Infrared Sensitivity Reader

Reduce testing time with the handheld SENS-RDR infrared sensitivity reader. The reader simplifies sensitivity measurements and displays them precisely in terms of percent per foot obscuration. The SENS-RDR eliminates the need for magnets, voltmeters and ladders.



RT Removal Tool

Simplifies the attachment and removal of the detector head to the mounting base; it may be attached to a threaded extension pole or broom handle thereby eliminating the need for ladders.



ORDERING

5808W3 Photoelectric Smoke/Heat Detector with Built-in Wireless Transmitter

Accessories sold separately:

SENS-RDR Hand-held Sensitivity Reader

RT i3 Removal Tool used for easy installation and removal of head from base

Automation and Control Solutions

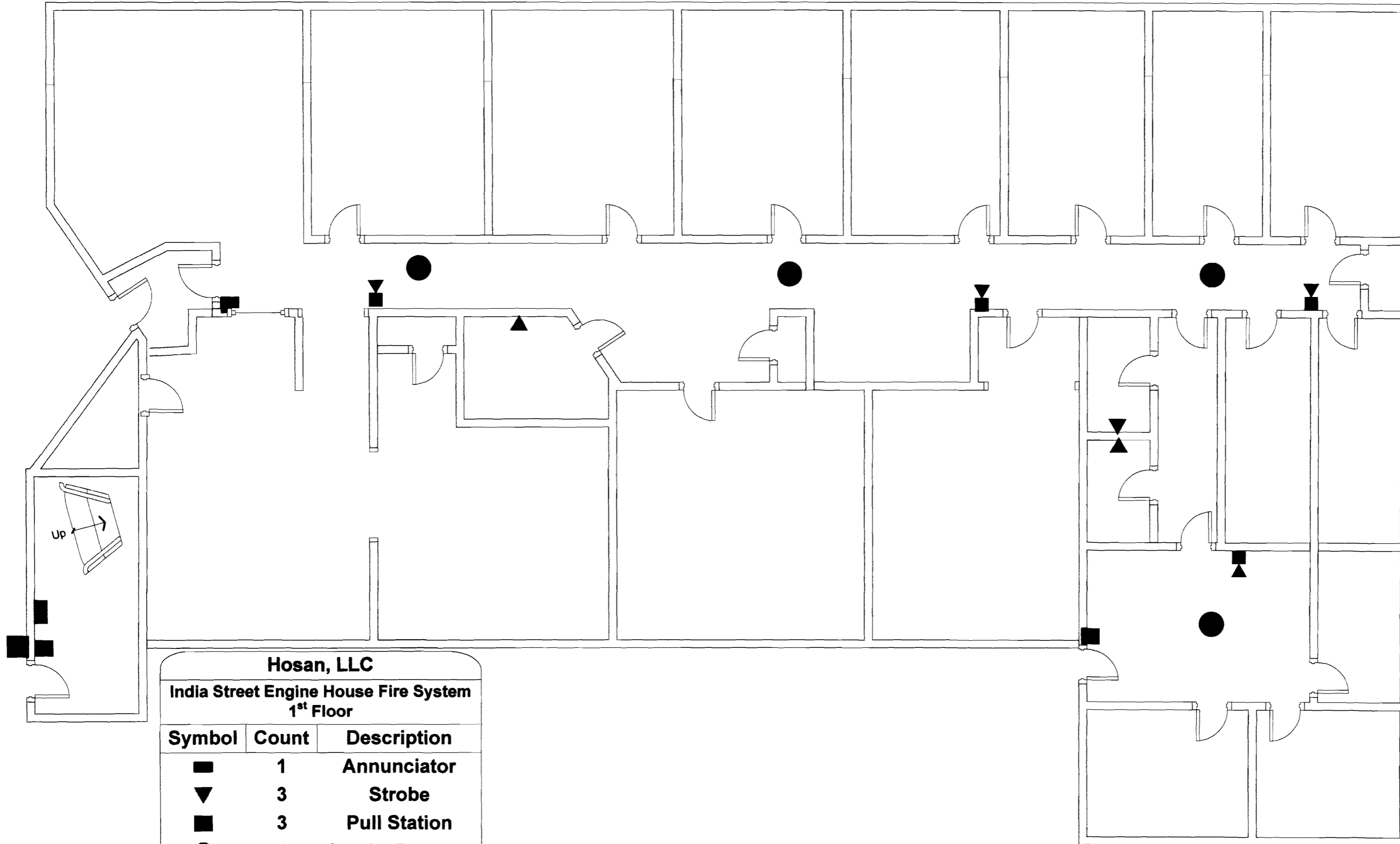
Honeywell Security & Communications
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P.O. Box 9040
Melville, NY 11747

www.honeywell.com

L/5808W3DS/D
September 2008
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Honeywell

**INDIA STREET ENGINE HOUSE
97 INDIA STREET, PORTLAND, MAINE 04101**

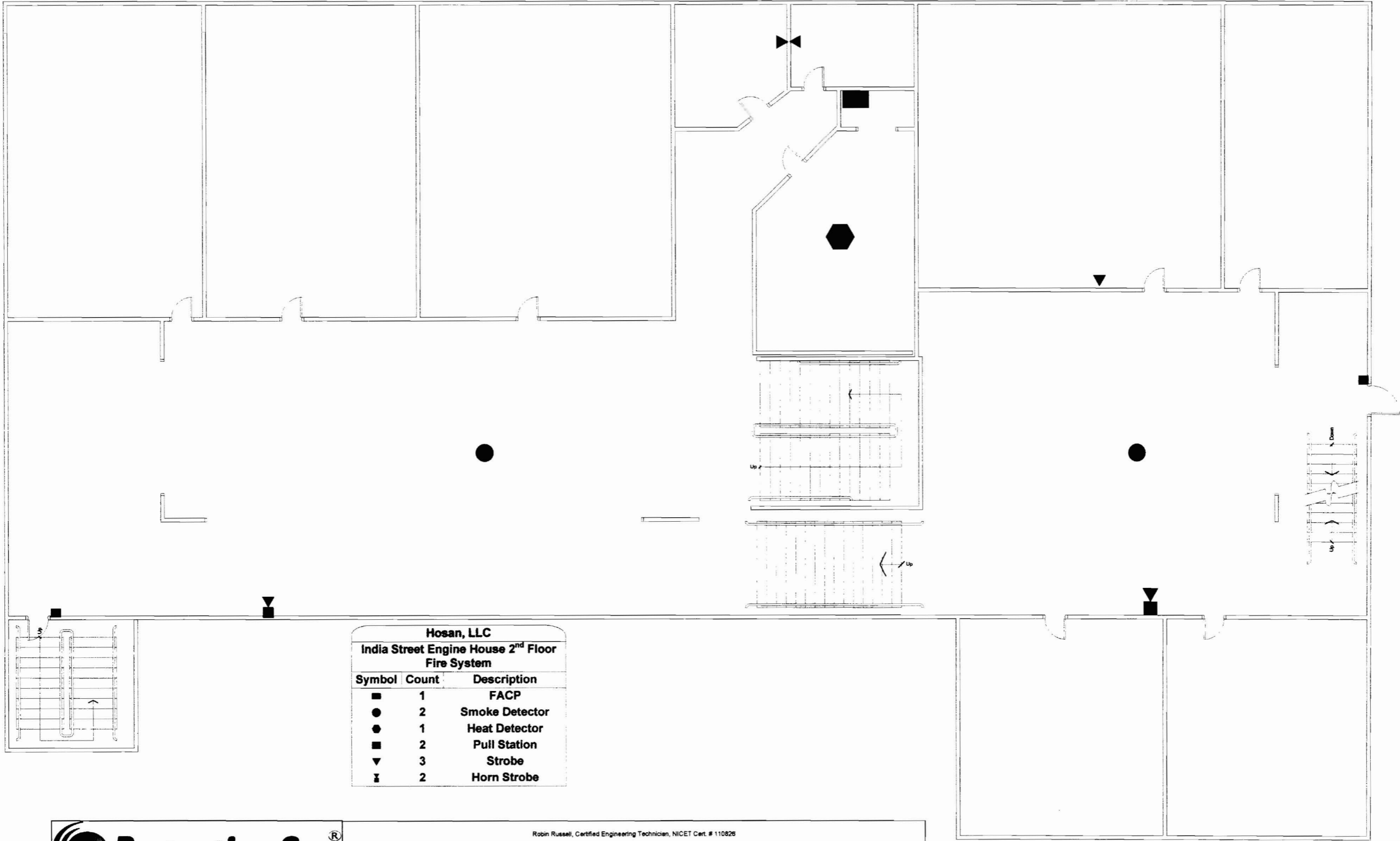


Hosan, LLC		
India Street Engine House Fire System 1st Floor		
Symbol	Count	Description
■	1	Annunciator
▼	3	Strobe
■▲	3	Pull Station
●	4	Smoke Detector
▲	4	Horn Strobe
■▲	1	Key Box



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INDIA STREET ENGINE HOUSE
 97 INDIA STREET, PORTLAND, MAINE 04101



Hosan, LLC
India Street Engine House 2nd Floor
Fire System

Symbol	Count	Description
■	1	FACP
●	2	Smoke Detector
●	1	Heat Detector
■	2	Pull Station
▼	3	Strobe
⌈	2	Horn Strobe

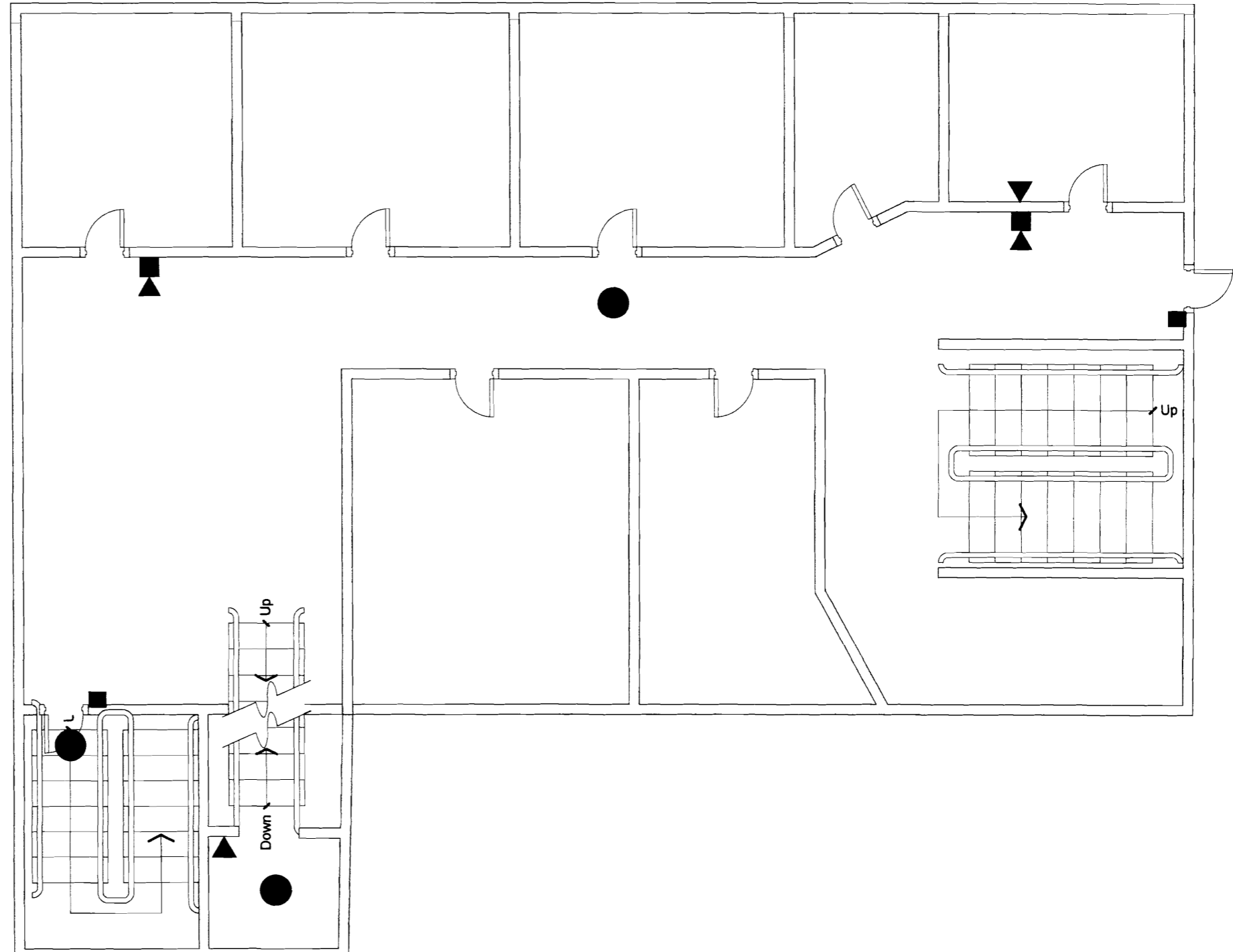


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12/10/09

**INDIA STREET ENGINE HOUSE
97 INDIA STREET, PORTLAND, MAINE 04101**



Hosan, LLC		
India Street Engine House 3 rd Floor Fire System		
Symbol	Count	Description
●	3	Smoke Detector
■	2	Pull Station
▼	2	Horn Strobe
▲	2	Strobe



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12/10/09