CITY OF PORTLAND
BUILDING PERMIT

This is to certify that
MAINE STATE SECURITY
98 COMPANY RD
BIDDEFORD, ME 04005

For installation at
119 SHERMAN ST
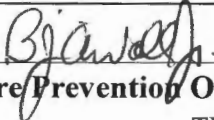**13-UNIT APARTMENT BUILDING**

Job ID: 2012-03-3413-FAFS

CBL: 048- C-021-001

has permission to install supervised automatic fire alarm system

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

Notification of inspection and written permission procured before this building or part thereof is lathed or otherwise closed-in. 48 HOUR NOTICE IS REQUIRED.

A final inspection must be completed by owner before this building or part thereof is occupied. If a certificate of occupancy is required, it must be

Fire Prevention Officer   **Code Enforcement Officer / Plan Reviewer**

THIS CARD MUST BE POSTED ON THE STREET SIDE OF THE PROPERTY
PENALTY FOR REMOVING THIS CARD

BUILDING PERMIT INSPECTION PROCEDURES
Please call 874-8703 or 874-8693 (ONLY)
or email: buildinginspections@portlandmaine.gov

With the issuance of this permit, the owner, builder or their designee is required to provide adequate notice to the city of Portland Inspections Services for the following inspections. Appointments must be requested 48 to 72 hours in advance of the required inspection. The inspection date will need to be confirmed by this office.

- **Please read the conditions of approval that is attached to this permit!! Contact this office if you have any questions.**

- **Permits expire in 6 months. If the project is not started or ceases for 6 months.**

- **If the inspection requirements are not followed as stated below additional fees may be incurred due to the issuance of a "Stop Work Order" and subsequent release to continue.**

Final Fire

The project cannot move to the next phase prior to the required inspection and approval to continue, REGARDLESS OF THE NOTICE OF CIRCUMSTANCES.

IF THE PERMIT REQUIRES A CERTIFICATE OF OCCUPANCY, IT MUST BE PAID FOR AND ISSUED TO THE OWNER OR DESIGNEE BEFORE THE SPACE MAY BE OCCUPIED.

Job ID: 2012-03-3413-FAFS
install supervised automatic fire
alarm system

For installation at:
119 SHERMAN ST
13-UNIT APARTMENT BUILDING

CBL: 048- C-021-001

Conditions of Approval:

Zoning

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

Fire

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.

In field installation shall be installed per code as conditions dictate.

Audible alarm levels shall be verified and documented per code.

All smoke detectors and smoke alarms shall be photoelectric. Additional smoke detectors may be required when the stairs are enclosed.

Carbon Monoxide is detection required in accordance with NFPA 720, *Standard for Installation of Carbon Monoxide (CO) Detection and Warning Equipment*, 2009 edition.

Records cabinet, FACP, annunciator(s), and pull stations shall be keyed alike.

Central Station monitoring for addressable fire alarm systems shall be by point.

All fire alarm records required by NFPA 72 should be stored in an approved cabinet located at the FACP labeled "FIRE ALARM RECORDS".

Installation of a Fire Alarm system requires a Knox Box to be installed per city ordinance.

The fire alarm system shall be certified by a master fire alarm company and have a new fire alarm inspection sticker.

System acceptance and commissioning must be coordinated with alarm and suppression system contractors and the Fire Department. Call 874-8703 to schedule.

City of Portland, Maine - Building or Use Permit Application

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

Job No: 2012-03-3413-FAFS	Date Applied: 3/1/2012	CBL: 048- C-021-001	
Location of Construction: 119 SHERMAN ST	Owner Name: KEVIN W THOMAS	Owner Address: 39 DEERING AVE PORTLAND, ME 04101	Phone:
Business Name:	Contractor Name: Maine State Security – Chris L'Heureux	Contractor Address: 1308 New Country Rd., Dayton. ME 04005	Phone: (207) 247-4371
Lessee/Buyer's Name:	Phone:	Permit Type: FIRE ALARM - Fire Alarm	Zone: R-6
Past Use: Thirteen dwelling units	Proposed Use: Same – thirteen dwelling units – install fire alarm	Cost of Work: 9500.00	CEO District:

Fire Dept:
_✔_ Approved w/ conditions
___ Denied
___ N/A

Signature: _BJCenball_ (58)

Inspection:
Use Group:
Type:

Signature:

Proposed Project Description: Fire alarm permit	Pedestrian Activities District (P.A.D.)

Permit Taken By:	**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 electrial work.
3. Building permits are void if work is not started within six (6) months of the date of issuance. False informatin may invalidate a building permit and stop all work.

Special Zone or Reviews

___ Shoreland
___ Wetlands
___ Flood Zone
___ Subdivision
___ Site Plan

___ Maj ___ Min ___ MM

Date: OK w/ condition
3/6/12 AFM

Zoning Appeal

___ Variance
___ Miscellaneous
___ Conditional Use
___ Interpretation
___ Approved
___ Denied

Date:

Historic Preservation

_✔_ Not in Dist or Landmark
___ Does not Require Review
___ Requires Review
___ Approved
___ Approved w/Conditions
___ Denied

Date: _AFM_

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 appication 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

R1

Entered 3/1/12
(B)

JD# 2012-03-3413-FAFS

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: __119 Sherman Street__ CBL: __48-C-21__ Dept. of...

Exact location: (within structure) __inside main entry__

Type of occupancy(s) (NFPA & ICC): __Existing 13 unit apartment building__

Building owner: __Kevin Thomas__

System Designer (point of contact): Must be __Unicad Wayne Haws__

Designer phone: __801-985-0410__   E-mail: __wayne@unicad.net__

Installing contractor: __Maine State Security__   Certificate of Fitness No: __1002__

Contractor phone: __(207) 247-4371__   E-mail: __info@mainestatesecurity.com__

This is a new application: YES ● NO ○   New AES Master Box: YES ○   NO ○
(Include Master Box approval form)

Amendment to an existing permit: YES ○   NO ○   Permit no: _____

The following documents shall be provided with this application:

✓ Floor plans	✓ Scope of Work
✓ Wiring diagram	✓ 11 ½ x 17s
✓ Annunciator details	✓ pdf copy (may be e-mailed)
✓ Input/ Output Matrix	✓ Designer qualifications
✓ Equipment data sheets	✓ Battery/ voltage drop calcs
✓ Electrical Permit Pulled (check alarm/com)	

COST OF WORK: __9,500.__

PERMIT FEE: _____
($10 PER $1,000 + $30 FOR THE FIRST $1,000)

Master box approval only: YES ○   NO ●
(If yes check *New AES Master Box* above)

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 readable 11 ½ x 17s 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: _____   Date: __2-28-12.__

Maine State Security Services

A Division of L'Heureux Inc.

December 5, 2011

Portland Fire Prevention
Lt. Ben Wallace
380 Congress Street
Portland, Me 04101

Re: 119 Sherman Street

Scope of work: We intend to install a new Fire Alarm System for an existing 13 unit apartment building, per NFPA101 for existing Apartment buildings with 13 units, 3 stories and no automatic sprinklers. The system will be all hard wired devices all UL listed for commercial fire.Communication to the UL listed Central Station will be accomplished by using the Alarm net GSM Radio that is listed as a sole communication device for commercial fire.

Please feel free to give me a call after reviewing the submittals if you have any questions.

Sincerely,

Chris L'Heureux
President.

NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES®

Providing Certification Programs Since 1961

BE IT KNOWN THAT

Wayne B. Haws

IS HEREBY AWARDED CERTIFICATION AT

LEVEL IV

IN FIRE PROTECTION ENGINEERING TECHNOLOGY
FIRE ALARM SYSTEMS

BASED UPON SUCCESSFUL DEMONSTRATION OF REQUISITE KNOWLEDGE, EXPERIENCE AND WORK PERFORMANCE AS SET FORTH BY THIS INSTITUTE.

Certification Valid through May 1, 2014

CERTIFICATION NUMBER 90496

CHAIRMAN OF THE NICET BOARD OF GOVERNORS

A DIVISION OF THE NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS

SILENT KNIGHT

by Honeywell

IntelliKnight® 5808 Single Loop Addressable Fire Alarm Control System

The convenience of an addressable fire alarm control panel in a cost-effective easy to use package.

IntelliKnight Model 5808 is a 127 point class leading single loop addressable fire alarm control/communicator system. 5808 provides you with the revolutionary value and performance of addressable sensing technology combined with exclusive, built-in digital communication, distributed intelligent power, easy to use interface. Powerful features such as drift compensation and maintenance alert are delivered in this powerful FACP from Silent Knight.

For more information about the IntelliKnight system, or to locate your nearest source, please call 1-800-328-0103.

Description

The basic 5808 system can be enhanced by adding modules such as 5860 remote annunciator, 5824 serial/parallel printer interface module (for printing system reports), and 5496 intelligent power module. 5808 supports Hochiki or SK protocol devices. 5808 also features a powerful built-in dual line fire communicator that allows for reporting of all system activity to a remote monitoring location.

Features

- Built-in support for up to 99 SK detectors *and* 99 SK modules.
- Built in support for 127 Hochiki SD devices.
- Up to 125 zones and 125 output groups.
- Uses standard wire—no shielded or twisted pair required
- Built-in digital communicator.
- Central station reporting by point or by zone
- Supports Class B (Style 4) and Class A (Style 6 or 7) configuration for SLC.
- Distributed, intelligent power.
- Drift compensation.
- 13 pre-programmed output cadences, (including ANSI-3.41), and 4 programmable outputs.
- Notification circuits can be configured as 2 Class A (Style Z) or 4 Class B (Style Y), or auxiliary power for resettable, constant, or door holder power.
- Built-in annunciator with 80-character LCD display.
- RS-485 bus provides communication to system accessories.
- Built-in RS-232 and USB interface for programming via a PC.
- Upload or download programming, event history, or detector status via remote or direct connection.
- Improvements in SKSS deliver five times faster upload/downloads.
- Built-in synchronization for appliances from AMSECO, Gentex®, Faraday, System Sensor®, and Wheelock®.
- One Form C trouble relay rated at 2.5A at 27.4 VDC and two Form C programmable relays rated at 2.5A at 27.4 VDC.

Model 5808

- Programmable date setting for Daylight Saving Time
- Plex-2 door option combines a dead front cabinet door with a clear window, limiting access to the panel while providing single button operation of the reset and silence functions.

  Integrated dead front panel protects operator from exposure to electrical components.

- The FACP enclosure features a Plexiglass® viewing window to protect annunciator.
- Acknowledge function allows operator to keep track of event status.
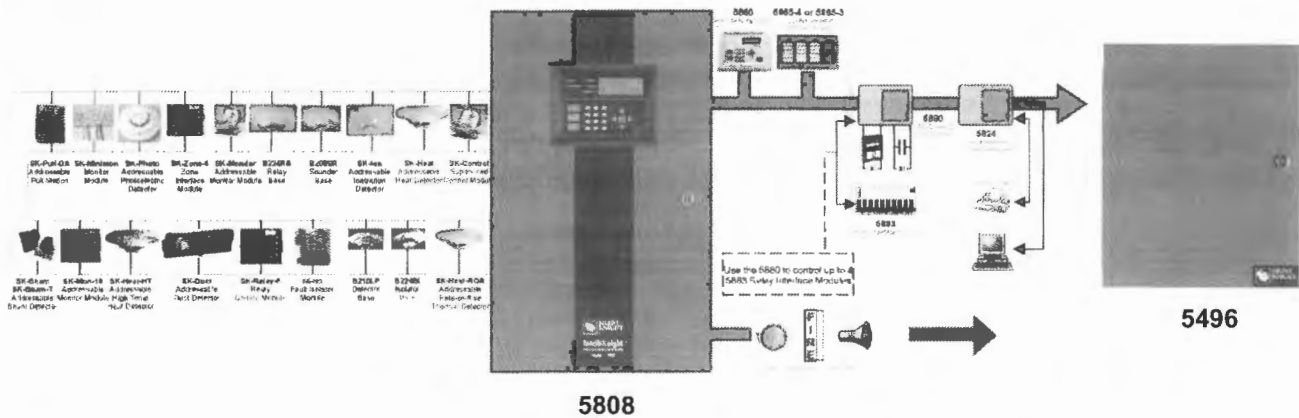
Installation

The 5800 can be surface or flush mounted.

Compatibility

The 5808 SLC supports multiple device types of the *same* protocol:

- SK (System Sensor)
- Hochiki SD

You cannot mix SD and SK devices on a FACP.

5808

5496

Specifications

Electrical

Primary AC: 120 VRMS at 50/60 Hz, 2.75A

Total Accessory Load: 6A @ 27.4 VDC

Notification Power: 6A @ 27.4 VDC, power-limited

Standby Current: 170 mA

Alarm Current: 325 mA

Notification & Auxiliary Circuits: 3A @ 27.4 VDC per circuit,power-limited

Battery Charging Capacity: 7.0-35 AH

Battery Size: 18 AH max. allowed in FACP. Larger capacity batteries can be housed in an RBB accessory cabinet

Physical

Flush Mount Dimensions:
14.5" W x 24.75" H x 3.5" D
(36.8 W x 62.9 H x 8.73 D cm)

Overall Dimensions:
16" W x 26.4" H x 4.65" D
(40.6 W x 67 H x 11.8 D cm)

Weight: 28 lbs. (12.8 kg)

Color: Red

Telephone Requirements:
FCC Part 15 and Part 68 approved
Type of Jack: RJ31X (two required)

Approvals

NFPA 13, NFPA 15, NFPA 16, NFPA 70, & NFPA 72: Central Station; Remote Signalling; Local Protective Signalling Systems; Auxiliary Protected Premises Unit; & Water Deluge Releasing Service. Suitable for automatic, manual, waterflow, sprinkler supervisory (DACT non-coded) signalling services.
UL Listed
CSFM 7165-0559:0142;
MEA 429-92-E Vol. XIV

S-BUS Accessories

5860/R Remote Fire Annunciator

Features the same 80 character backlit LCD display keypad and firefighter's key switch as the 5808. 5860 is gray and 5860R is red.

5496 Intelligent Power Module

A 6 amp notification power expander that provides four additional power-limited notification appliance circuit outputs.

5880 LED/IO Module

Features 40 LED outputs, 8 normally open dry contact inputs and one piezo output.

5865-3 and 5865-4
Remote LED Annunciator

Features 30 programmable LED (15 red and 15 yellow) outputs and a piezo sounder. The 5865-4 adds a silence and reset switch to the package.

5824 Serial/Parallel Printer Interface Module

Provides one parallel and one RS-232 serial port for connecting a printer to 5808. Use to print a real-time log of system events, detector status reports, and event history.

5883 Relay Board

Features 10 general purpose Form C relays. Used with 5880 module.

Miscellaneous Accessories

5660 Silent Knight Software Suite

PC-base software for FACP programming. Upload and view panel account information, event history, and detector status.

5670 Silent Knight Software Suite

End-user facility management software allows viewing of detector status and event history via modem or direct connection.

Plex-2 Door

Dead front cabinet door with clear window to limit access to the FACP.

RBB

Remote Battery Box Accessory Cabinet. Use if backup batteries are too large to fit into FACP cabinet. Dimensions:

16" W x 10" H x 6" D(406 mm W x 254 mm H x 152 mm D)

Hochiki and SK Devices

See the specification sheets listed below for a complete listing of the Hochiki and SK devices.

53624	Hochiki SD Devices data sheet
53623	SK Device Protocol Devices data sheet

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MADE IN AMERICA

350386 Rev. H
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SILENT KNIGHT
by Honeywell

B200SR

Intelligent Sounder Base

The B200SR sounder base sets a new standard for performance, installation ease, and aesthetics. It offers maximum flexibility in installation,configuration, and operation to meet or exceed UL 268 and UL 464 requirements.

For more information about the IntelliKnight system, or to locate you nearest source, please call 1-800-328-0103.

Description

B200SR

The B200SR Series sounder bases set a new standard for performance, installation, and aesthetics. The B200SR is designed for new and existing dwelling unit applications. It offers maximum flexibility in installation, configuration, and operation to meet or exceed UL 268 and UL 464 requirements.

The B200SR is fully compatible with existing B501BH-Series sounder base installations. The device enables users to select one of two B501-supported tones (ANSI Temporal 3 or Continuous) by removing a jumper.

With its attractive aesthetics, the B200SR is ideal for applications where appearance is critical. For example, the sounder base employs a separate mounting plate that installs on various junction box sizes to eliminate unsightly surface-mount boxes. In addition, the mounting plate enables pre-wiring of all connections to speed and simplify installation. The housing then mates with the mounting plate and is locked in position with two retaining screws, which are covered by the installed sensor head for added tamper resistance

Features:
- Tone selection via an onboard jumper
- UL 268 and UL 464 compliant
- Pre-wire mounting plate fits various junction box sizes
- Fully compatible with existing B501BH-Series sounder base installations
- Mechanical locking feature prevents the removal of the attached sensor head

Installation
The B200SR can be mounted directly into a 4" square by at least 1.5" – 2.1" deep electrical box, using the supplied mounting kit.


B200SR

Compatibility
The B200SR is compatible with the following SK-series detectors:

- SK-Photo Photoelectric Smoke Detector and SK--Photo-T Photoelectric Smoke Detector with Thermal
- SK-Acclimate Multicriteria Photoelectric Smoke Detector
- SK-Ion Ionization Smoke Detector
- SK-Heat Fixed Temperature Thermal Detector, SK -Heat-ROR Rate-of-Rise Detector with Thermal, and SK-Heat-HT Fixed High Temperature Thermal Detector

The B200SR is compatible with the following IntelliKnight FACP's:

5700
5808
5820XL

Model B200SR
Intelligent Sounder Base

* GROUPING OF MODEL B200SR SOUNDER BASES
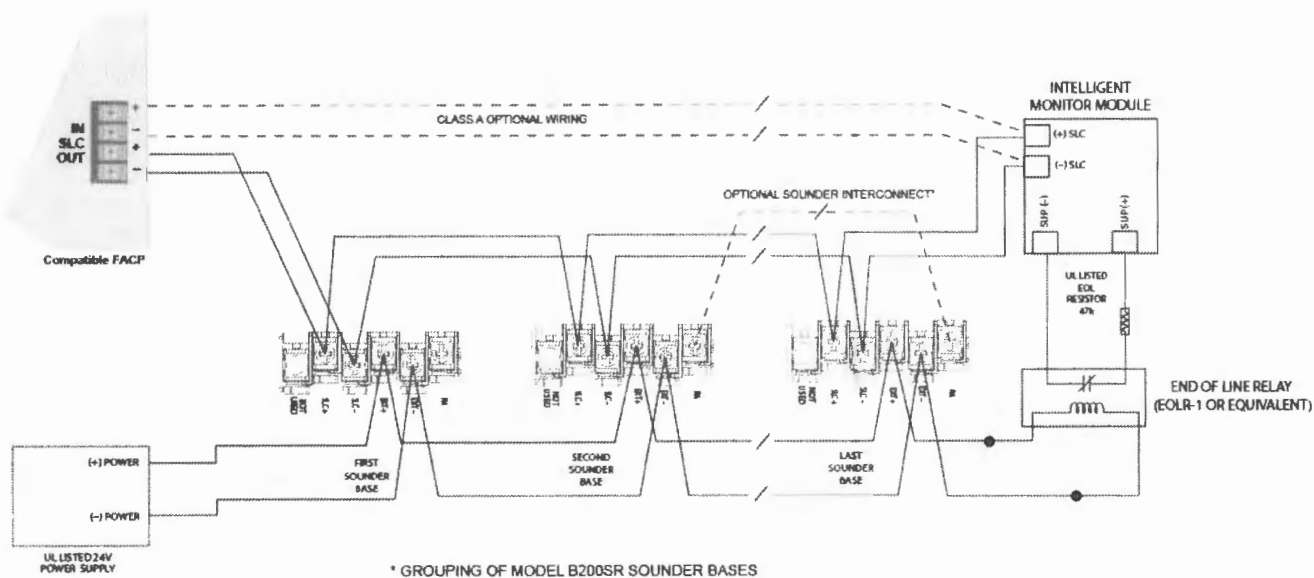
Specifications

Physical

Height:	2.0" (5.08 cm) less sensor
Width:	6.875" (17.46 cm)
Shipping Weight:	0.50 lb. (227 gm)

Electrical

External Supply Voltage	16 to 33 VDC (VFWR)
External Supply Standby Current	500 µA maximum
Alarm Current	35 mA maximum
SLC Operating Voltage	15 to 32 VDC
SLC Standby Current	300 µA maximum

Environmental

Operating Temperature:	32°F – 120°F (0°C – 49°C)
Humidity:	10% – 93% non-condensing

Sound Output

Greater than 85 dBA minimum measured in a UL reverberant room at 10 feet, 24 Volts (in continuous tone)

Ordering Information

B200SR	Intelligent Sounder Base

SILENT KNIGHT

by Honeywell

SK-Heat, SK-Heat-HT and SK-Heat-ROR

Addressable thermal heat and rate-of-rise detectors

The SK-Heat, SK-Heat-HT, and SK-Heat-ROR are plug in thermal detectors, with integral communication, that provide features that surpass conventional detectors. These thermal detectors are for use with Silent Knight IntelliKnight series Fire Alarm Control Panels (FACPs).

IntelliKnight heat detectors are an essential component in virtually any IntelliKnight installation. The IntelliKnight panel recognizes each detector by its specific address, so precious seconds are not wasted in determining location of an alarm.

Description

SK-Heat, SK-Heat-HT and SK-Heat-ROR are intelligent sensors that utilize a state-of-the art thermistor sensing circuit for fast response. Sensitivity is continuously monitored and reported to the FACP. Point ID capability allows each detector's address to be set with rotary address switches, providing exact detector locations for selective maintenance when chamber contamination reaches unacceptable levels.

SK-Heat is a fixed temperature sensor that uses a thermistor sensing circuit to produce 135°F (57°C) fixed temperature alarm.

SK-Heat-HT is a variable high temperature detector that provides high temperature detection at 135°F - 190°F. (57°C - 88°C)

SK-Heat-ROR is a rate-of-rise temperature sensor with 135°F (57°C) fixed temperature alarm.

Features

- Reliable analog communications for trouble-free operation
- Age resistant polymer housing
- Innovative thermistor sensing circuit
- Superior EMI resistance for reliability
- Variety of mounting options to meet any application

- Dual LED indicators for 360° visibility
- Detector transmits signal to indicate maintenance is required
- Plug-in mounting provides ease of installation
- Optional remote LED annunciator (System Sensor® PN RA100Z)
- Tamper-proof feature available on mounting bases
- Rotary address switches for fast installation
- UL Listed

Specifications

Physical
Height: 2.0" (51 mm)
Diameter: 6.1" (155 mm) installed in B210LP base
Shipping Weight: 4.8 oz (137 g)

Electrical
Operating Voltage: 15 to 32 Volts DC Peak

Standby Current: 300µA @ 24 VDC

LED Current: 6.5 mA@ 24 VDC

Environmental

Operating Temperature
SK-Heat & SK-Heat-ROR: -4° – 100°F (-20°C– 38°C)

SK-Heat-HT: -4° – 150°F (-20°C – 66°C)

Humidity: 10% – 93% noncondensing

SK-Heat (base included)

Thermal Ratings
SK-Heat: Fixed temperature alarm 135°F (57°C)

SK-Heat-HT: High temperature heat sensor 135°F - 190°F (57°C - 88°C)

SK-Heat-ROR: Rate-of-rise detection 15°F/min (8.3°C/min)

Compatibility

The SK-Heat, SK-Heat-HT and SK-Heat-ROR are compatible with the following IntelliKnight FACP's:

5700
5808
5820XL

The SK-Heat, SK-Heat-HT and SK-Heat-ROR are compatible with the following detector bases:

|	
B210LP	(included) 6" base
B501	2 wire base
B224BI	Isolator base
B224RB	Relay base
B200SR	Sounder base

Model SK-Heat, SK-Heat-HT, SK-Heat ROR Addressable Thermal and Rate-of-Rise Thermal Detectors

Engineering Specifications

The contractor shall furnish and install where indicated on the plans, Intelligent Thermal Sensor Silent Knight Model SK-Heat, SK-Heat-HT or SK-Heat-ROR. The base included shall be B210LP.

The Heat detector shall have a flashing status LED for visual supervision. When the detector is activated, the flashing LED will latch on steady at full brilliance. The detector may be reset by actuating the control panel reset switch.

The vandal-resistant, security locking feature shall be used in those areas as indicated on the drawing. The locking feature shall be field removable when not required.Voltage and RF/transient suppression techniques shall be employed to minimize false alarm potential.
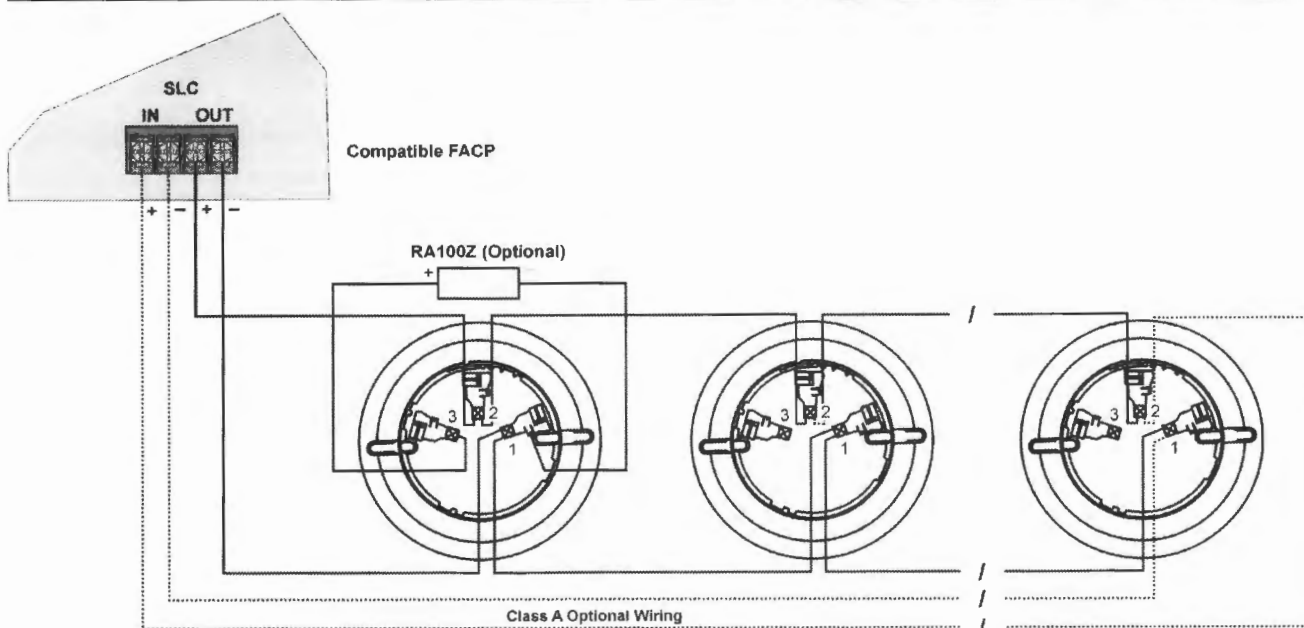
Wiring SK-Series Detector Mounting Bases

Accessories

RA100Z - Remote LED Annunciator.

RMK400 - Recessed Mounting Kit. Provides low profile for use with B501.

XR2B - Detector Removal Tool. A removal and re- placement tool for SK plug-in detectors. Includes the T55-127-000.

M02-04-01 - Replacement Test Magnet.

M02-09-00 - Test Magnet with Telescoping Handle.

XP-4 - Extension Pole for XR2B. Extends from 5 – 15 ft.

T55-127-000 - Detector Removal Head.

BCK-200B - Black Detector Kit. For SK-series detectors.

* Unless otherwise noted, specifications apply to all SK thermal detectors.

SK-Photo and SK-Photo-T

Intelligent Photoelectric Smoke Sensors

The SK-Photo is a photoelectric smoke detector and the SK-Photo-T is a photoelectric smoke detector with thermal. These plug in smoke detectors, with integral communication, provide features that surpass conventional detectors and are for use with Silent Knight IntelliKnight Fire Alarm Control Panels (FACPs).

For more information about the IntelliKnight system, or to locate your nearest source, please call 800-328-0103 or in Connecticut, call (203) 484-7161.

Description

SK-Photo and SK-Photo-T are plug-in type smoke sensors that combine a photoelectric sensing chamber with addressable analog communications. Point ID capability allows each detector's address to be set with rotary address switches, providing exact detector locations for selective maintenance when chamber contamination reaches unacceptable levels.

SK-Photo and SK-Photo-T have a unique optical sensing chamber that is engineered to sense smoke produced by a wide range of combustion sources. In the SK-Photo-T, dual electronic thermistors add 135°F (57°C) thermal technology to maximize detection.

Features

- Sleek, low-profile design
- Base included
- Reliable analog communications for trouble-free operation
- Age resistant polymer housing
- Dual electronic thermistor design on the SK-Photo-T
- Superior EMI resistance for reliability
- Simple field cleaning for code compliance
- Variety of mounting options to meet any application
- Dual LED indicators for 360° visibility
- Detector transmits signal to indicate maintenance is required
- Optional remote LED annunciator (System Sensor® PN RA100Z)

- Plug-in mounting provides ease of installation
- Tamper-proof feature available on mounting bases
- Listed for use in duct applications
- Rotary address switches for fast installation
- UL Listed
- FM Approved

Specifications

Physical
Height: 2.0" (5.0 cm)
Diameter: 4.1" (10.4 cm)
Shipping Weight: 5.2 oz. (147 g)

Electrical
Operating Voltage: 15–32 VDC
Standby Current:
300 µA @ 24 VDC Maximum
Alarm Current: 6.5 mA @ 24 VDC max (with LED on)

Environmental
Operating Temperature
SK-Photo: 32° – 120°F (0°C – 49°C)
SK-Photo-T: 32° – 100°F (0°C – 38°C)
Humidity: 10% – 93% non-condensing

Other Ratings
SK-Photo-T Thermal: Fixed temperature set point 135°F (57°C)
Velocity: 0 – 4000 fpm (0 – 20 m/sec)
SK-Photo Insect Screen Hole Size: 0.016" (0.41 mm) nominal

SK-Photo (Base included)

Compatibility

The SK-Photo and SK-Photo-T are compatible with the following IntelliKnight FACPs:
5700
5808
5820XL

SK-Photo and SK-Photo-T are compatible with the following detector bases:

B210LP	(included) 6" base
B501	2 wire base
B501BHT-2	Temporal base
B224RB	Relay base
B224BI	Isolator base
B501BH-2	Sounder base

SILENT KNIGHT
by Honeywell

Model SK-Photo and SK-Photo-T Intelligent Photoelectric Smoke Sensors

Engineering Specifications

The contractor shall furnish and install where indicated on the plans, Intelligent photoelectric smoke sensors Silent Knight SK-Photo or SK-Photo-T with thermal. The combination detector head, and twist-lock base, shall be UL listed and compatible with Silent Knight's IntelliKnight fire control panels.

The base shall permit direct interchange with SK-Photo or SK-Photo-T. Base shall be the appropriate twist-lock base part number B210LP (included).

The smoke detector shall have a flashing status LED for visual supervision. When the detector is actuated, the flashing LED will latch on steady. The detector may be reset by actuating the control panel reset switch.

The calibration of the detector shall be capable of being selected and measured by the control panel without the need for external test apparatus.

The vandal-resistant, security locking feature shall be used in those areas as indicated on the drawing. The locking feature shall be field selectable as required.

The SK-Photo shall automatically perform a functional test of the detector. The test method shall simulate effects of products of combustion in the chamber to ensure testing of detector circuits.
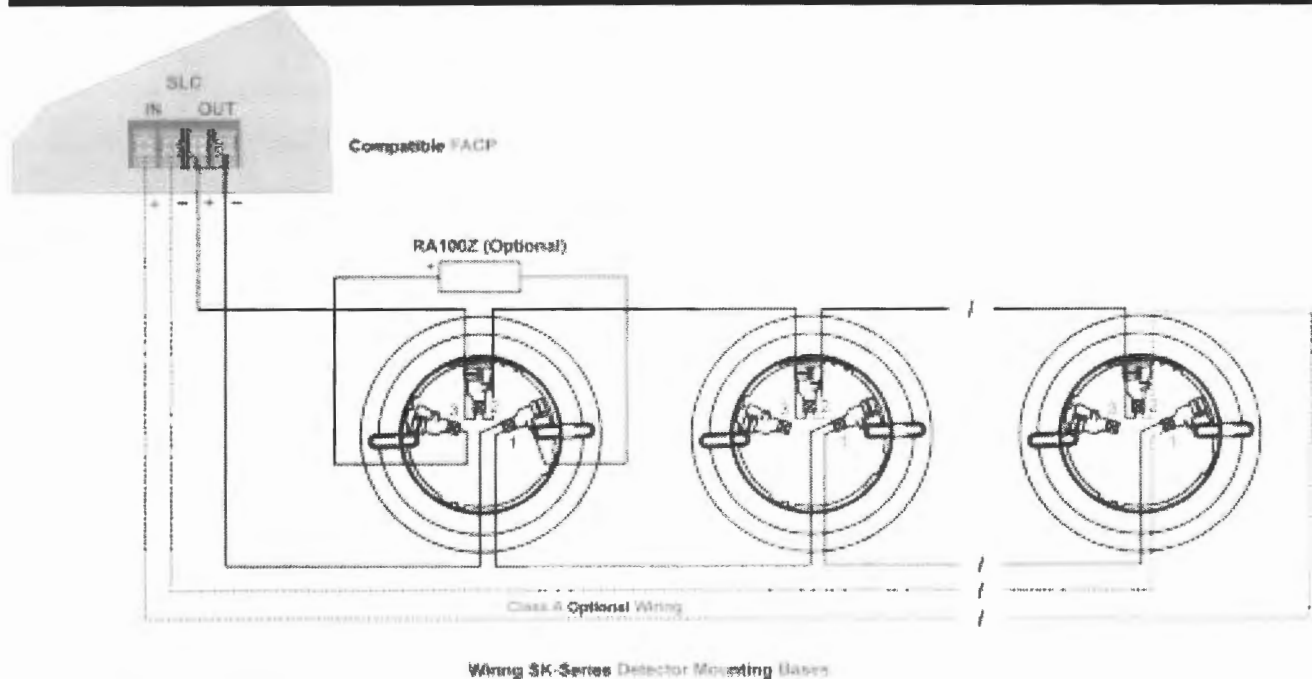
Wiring SK-Series Detector Mounting Bases

SILENT KNIGHT
by Honeywell

SK-Pull-SA and SK-Pull-DA

Intelligent Pull Stations

The SK-Pull-SA and SK-Pull-DA are a single action or dual action addressable fire alarm pull station for use with Silent Knight's IntelliKnight fire control panel. Extremely easy to operate, the SK-Pull-DA and SK-Pull-SA provide a fast and practical means of manually initiating a fire alarm signal. The IntelliKnight panel recognizes each manual pull station by its specific address saving precious seconds in determining the location of an alarm.

For more information about the IntelliKnight system, or to locate you nearest source, please call 1-800-328-0103.

Description

The SK-Pull-SA is a single action pull station requiring only one motion to activate the station. The SK-Pull-DA is a dual action pull station requiring two motions to active the station. Both pull stations are designed to work with Silent Knight Intelliknight series fire alarm control panels (FACPs).

Features

- Installer can open station without causing an alarm condition

- Dual-color LED is visible through handle of station blinks green to indicate normal operation and remains steady red in an alarm condition

- Key operated test and reset lock using lock plate actuator

- Key matches compatible FACP locks

- Meets the Americans with Disabilities Act Accessibility Guidelines (ADAAG) controls and operating mechanisms guidelines (Section 4.1.3[13])

- Meets ADA requirement for 5 lbs maximum pull force to active

- Shell, door, and handle molded from durable LEXAN®

- Reliable analog communications for trouble-free operation

- Braille text on station handle

- Handle latches in down position and the word *Activated* appears, clearly indicating the station has been pulled

- Rotary address switches for fast installation

- UL Listed, including UL 38, Standard of Manually Actuated Signaling System

SK-Pull-SA

SK-Pull-DA

Compatibility

The SK-Pull-SA and SK-Pull-DA are compatible with the following IntelliKnight FACP's:

5600
5700
5808
5820XL

Model SK-Pull-DA and SK-Pull-SA

Engineering Specifications

The contractor shall furnish and install where indicated on the plans, Addressable Pull Stations, Silent Knight model SK-Pull-SA single action pull station or SK-Pull-DA, dual action pull station.

SK-Pull-DA or SK-Pull-SA meet the ADAAG controls and operating mechanisms guidelines, and the ADA requirements for a 5 lb. maximum pull force to activate the pull station.
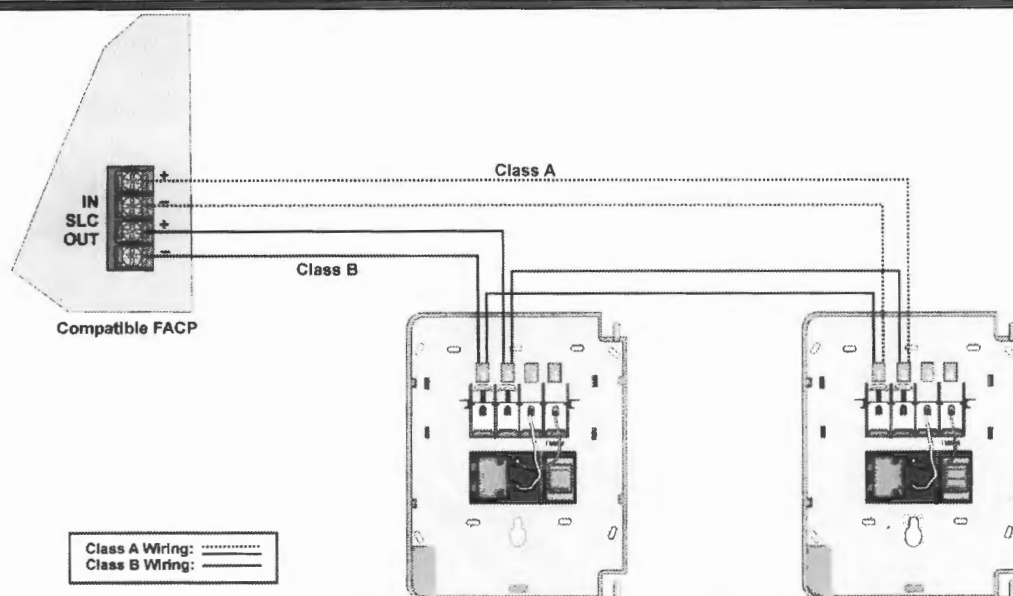
Wiring SK-Pull-SA & SK-Pull-DA Pull Stations

Specifications

Physical
Height: 5.5" (14 cm)

Width: 4" (10.2 cm)

Depth: 5.4 oz. (3.7 cm)

Housing Material: LEXAN polycarbonate resin

Bi-Colored LED:
  Blinking Green: Normal

  Steady Red: Alarm

Switch: Single pole, single throw (SPST) normally open (N/O) switch which closes upon activation of the pull station

Electrical
Operating Voltage: 15–32 VDC

Average Operating Current (LED flashing): 300 µA

Wire Gauge: Up to 12 AWG (3.1 mm^2)

Environmental

Operating Temperature 32° – 120°F (0°C – 49°C)

Humidity: 10% – 93% non-condensing

Accessories

BG-TR	Optional trim ring.
SB-I/O	Surface backbox

SILENT KNIGHT
by Honeywell

MADE IN AMERICA

FORM# 350135 Rev A
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IPGSM-COM

IP Internet and Digital Cellular Fire·Communicator

General

The IPGSM-COM is a compact alarm communicator panel. It connects to the primary and secondary communication ports of the Fire Alarm Control Panel's DACT. In the event of an off-normal condition, the panel sends contact ID formatted information to the IPGSM-COM communicator panel. The IPGSM-COM then reformats the data into highly encrypted Ethernet packets for transmission to the AlarmNet receiver via customer-provided internet/intranet connection.

Alternative communication methods are critical in the marketplace due to VoIP (Voice over IP), migration from POTS ("plain old telephone service") and growth of digital radio networks. The IPGSM-COM delivers secure, reliable and complementary Internet and digital communications via the GSM (Global System for Mobile) network. Our exclusive, Triple-Path Communications solution combines Internet service with GSM for added reliability and an extra level of security. The GSM radio technology is unique in that it uses GPRS service (General Packet Radio Service) for data and alarm communications and automatically switches to SMS (Short Message Service) for alarms if GPRS is unavailable. Through the Internet or GSM radio, the IPGSM-COM offers contact ID reporting with any Fire Alarm Control Panels.

All signals from the IPGSM-COM communicator panel are delivered to Honeywell's AlarmNet Network Control Center, which routes the information to the appropriate central station. The state of the art AlarmNet Network Control Center is fully redundant and monitored 24/7. AlarmNet has the ability to route messages using AlarmNet-i and 800 PLUS services, providing true redundancy and multi-path message delivery.

Features

- Saves the cost of two dedicated phone lines. Only the customer's shared IP equipment is required.
- Triple path communications: Uses Internet as primary with dual GSM technology as back-up. GSM path utilizes GPRS and automatically switches to SMS if GPRS is unavailable.
- Requires no change to the existing Fire Alarm Control Panel configuration. The IPGSM-COM connects directly to the primary and secondary telephone ports.
- Works over any type of customer provided Ethernet 10/100Base network connection (LAN or WAN), DSL modem or cable modem.
- Data transmits over standard contact-ID protocol but is secured with the industry's advanced encryption standard (AES 256 bit).
- Supports both dynamic (DHCP) or Public and Private Static IP addressing.
- Built-In Power Supply module: On board charging circuit design accommodates back-up battery. Includes primary power and battery supervision.
- Diagnostic LEDs: Signal strength and status indications.
- Reliable connection: IP and GSM tested everyday
- QOS: Quality of Service diagnostics via AlarmNet supply vital information including when message was received, battery voltage, input voltage, signal strength, and message path.
- Web-Based Programming or Handheld programmer for setup.

Operation

When an event occurs, the Fire Alarm Control Panel goes off-hook to dial the central station. The IPGSM-COM Dialer Capture Module detects the off-hook condition and provides the fire panel with a dial tone. When the fire panel detects the dial tone, it begins dialing the central station. The Dialer Capture Module considers the three second period after dialing as the number dialing has been completed. After the dialing is completed, the Dialer Capture Module returns a handshake to the fire panel. The fire panel then sends the contact ID reports to the Dialer Capture Module, which in turn sends a kiss-off after the report is successfully received from the fire panel. The Dialer Capture Module sends the contact ID reports over the ECP bus to the iGSM communications module. When all the reports are sent, the fire panel goes on-hook. The iGSM communications module then transmits the messages to the central station (either over the internet (primary) or the GSM network).

Easy to Program

There are two ways to configure the IPGSM-COM communicator panel:

1. Handheld programmer 7720P

2. Web-Based Programming - Allows complete interactive programming from AlarmNet Direct.
   https://services.alarmnet.com/AlarmNetDirect

The IPGSM-COM Communicator can be pre-programmed. Use the 7720P programmer or the Web-Based Program to enter all central-station information. This is saved to the IPGSM-COM communicator panel memory. When the IPGSM-COM Communicator is installed at the site and connected to the Internet/Intranet, it registers itself with the AlarmNet receiver. This eliminates the need for a PC at the remote site for programming.

For most installations, the only required parameters are:

- Primary City ID (two digits) obtained from your monitoring station.
- Primary Central Station ID (two digits) obtained from your monitoring station.
- Primary Subscriber ID (four digits) obtained from your monitoring station.
- Communication Module's MAC ID, and MAC CRC number located on outside of box, and inside of the module.

All of these parameters are assigned by the monitoring station.

See *IPGSM-COM Installation and Setup Guide* for full details. NOTE: Some assembly is required.

Panel Capabilities

The IPGSM-COM communicator panel is compatible with fire panels that use the Contact ID communications format as described in the SIA DC-05 standard.

AlarmNet

Honeywell's AlarmNet has been the nationwide leader in alarm communications technology since 1986. A reliable alternative for the transmission of alarm signals, our radio network provides extensive coverage in the United States and Canada

AlarmNet Network Control center processes signals from powerful servers in multiple locations equipped with 24/7 infrastructure support. The AlarmNet network consist of redundant hardware servers, hot back-up databases and generators with battery back-up at all locations to ensure continuity of service. Signals from AlarmNet are transmitted to the central station's receivers using multiple communications paths consisting of the Internet, radio network or toll-free POTS service.

Installation Requirements

UL COMPLIANCE

To meet UL864/NFPA compliance, ensure the following:

* IPGSM-COM must be mounted within the same room and within 20 feet of host Fire Alarm Control Panel sounder, or other remote sounder.
* IPGSM-COM must be powered from the same un-switched facility power source branch as the host Fire Alarm Control Panel.
* IPGSM-COM must use the 7AH battery to provide 24-hour backup capability.

Electrical Specifications

* **Transformer:**
  - Primary: 120 VAC, 60 Hz, 0.50 A.
  - Secondary: 18VDC, 50 VA.
* **Current Requirements:**
  - PowerBoost1 power supply: 90mA Standby, 90 mA Active
  - iGSM Communications Module: 80mA Standby, 500mA Active (peak during transmission)
  - Dialer Capture Module: 40mA Standby, 85mA Active
  - LED Display board: 10mA Standby, 10mA Active
  - TOTAL: 220mA Standby, 685mA Active
* **Battery:** One 12 V 7.0 AH lead-acid battery (not supplied). (IPGSM-COM cabinet holds one 7.0 AH battery.)

Cabinet Specifications

* **Dimensions:** 14.875" H x 12.75" W x 3.0" D (37.8 cm H x 32.4 cm W x 7.6 cm D)
* **Color:** Red

Shipping Specifications

* **Weight:** 5.3 lbs. (6.94 kg)
* **Dimensions:** 15.625" H x 13.79" W x 9.25" D (39.7 cm H x 34.9 cm W x 23.9 cm D)

Temperature and Humidity Ranges

This system meets NFPA requirements for operation at 0 – 49°C/32 – 120°F and at a relative humidity 93% ± 2% RH (non-condensing) at 32°C ± 2°C (90°F ± 3°F). However, the useful life of the system's standby batteries and the electronic components may be adversely affected by extreme temperature ranges and humidity. Therefore, it is recommended that this system and its peripherals be installed in an environment with a normal room temperature of 15 – 27°C/60 – 80°F.

Product Line Information

IPGSM-COM: Internet and Digital Cellular Fire Communicator Panel. Includes red cabinet with key, wall outlet box, Dialer Capture Module, iGSM Communications Module, antenna and mounting adapter, PowerBoost1 power supply, LED display board, transformer, manual, and required screws, cables, etc.

GSM-ANT3DB: 3db gain external/remote antenna

7626-50HC: 50 ft. antenna cable, low loss

7626-25HC: 25 ft. antenna cable, low loss

WA7626-CA: SNA to N Adapter

7720P: IPGSM-COM handheld programmer

HPTCOVER: Plug in transformer box for IPGSM communicator

BAT-1270: Battery 12 Volts, 7 AH, sealed

Agency Listings and Approvals

The listings and approvals below apply to the basic **IPGSM-COM** communicator panel. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

* **UL:** S789
* **CSFM:** 7300-1645:0183

Honeywell

ISO 9001
CERTIFIED
ENGINEERING & MANUFACTURING
QUALITY SYSTEMS

Overview

GE Electromagnetic Door Holders are ruggedly constructed and attractively designed. The housings are baked with a durable polyester undercoating and are available in either a chrome or brass finish.

The floor or wall section houses the electromagnet while the contact plate attaches to the door. The contact plate has a shock absorbing nylon (swivel) ball which allows the plate to adjust to any door angle. Floor units are available in single-door or double-door (back to back) versions. Wall units are available in flush or surface mounted versions. GE door holders should be installed wherever doors may be effectively used to confine smoke and fire, or where the release of a self-closing door from a remote location is desirable for other reasons. Always consult your local Authority Having Jurisdiction with any questions regarding a specific application. Fail-safe operation is an inherent feature of GE Security door holder-releases. If power fails, doors are released automatically but may be opened or closed manually at any time. All units are free of moving parts, are self-contained and require no maintenance.These door holder-releases have a holding force of approximately 15 to 25 Lbf (66 to 111N). The device holds a door open while energized.
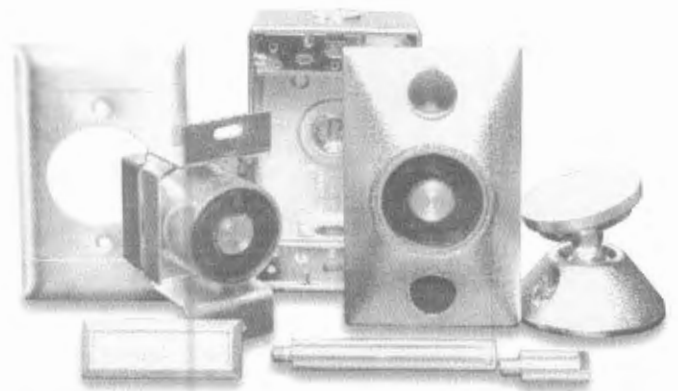
When de-energized by a relay controlled by the fire alarm system or other switch, the door is released to a closed position, checking the spread of smoke and flames. Electromagnetic door holders should be used and installed in accordance with local Building Codes and Standards.
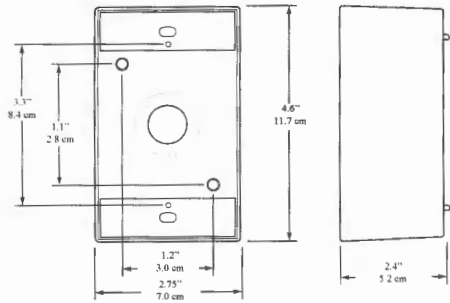
Standard Features

- Surface mount, semi-flush, flush, and floor mounted models
- Chrome or brass finishes blend In with other door hardware
- Low power consumption
- AC/DC models
- Completely silent operation25 Lbf (111N) nominal holding force
- Adjustable, swivel contact plate

Electromagnetic Fire Door Holders
DH Series

Surface Mount Back Box Dimensions

3.3"
8.4 cm

1.1"
2.8 cm

4.6"
11.7 cm

1.2"
3.0 cm

2.75"
7.0 cm

2.4"
5.2 cm

Door Magnet

4.7"
11.7 cm

3.3"
8.4 cm

2.8"
7.1 cm

1.1"
2.8 cm

.95"
2.4 cm

Extension Rod Applications and Accessories

DHW
(Wrench)

DH-ER1

DH-ER3

1.0"
2.54 cm
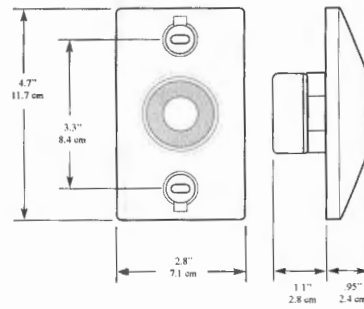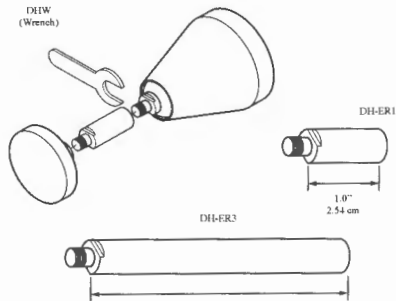
Catch Plate Assembly

Extension Rod Applications and Accessories

(C+L) Low Voltage

C L H

(C+H) High Voltage

Low Voltage

C L H   C L H

High Voltage

C L H   C L H

Catch Plate Assembly

Voltage Reference
C — Common
L — Low
H — High

Low Voltage

C L H

High Voltage
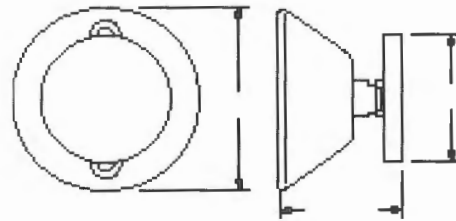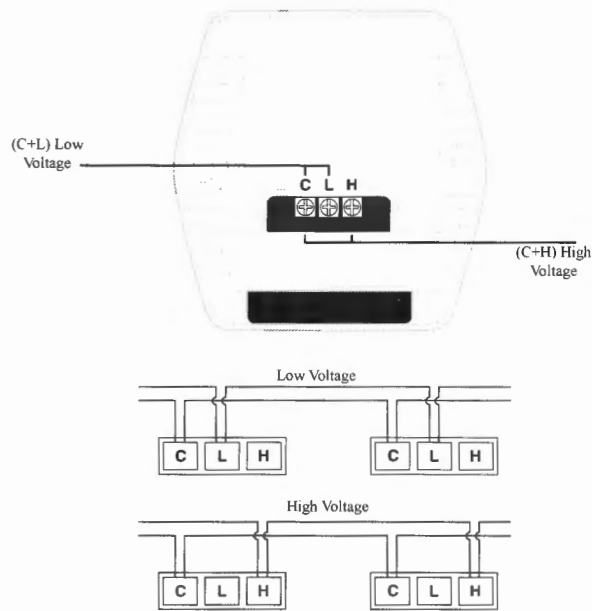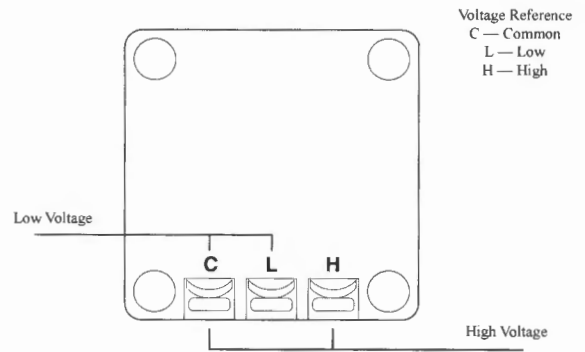
Performance Data

Model	Voltage	DC/mA	AC/mA	Terminals	Coil	lbs	kg. (Nominal)
DHX*-1224	12V	30	30	C&L	Single	35	15.9
	24V	15	15	C&H	Single	35	15.9
DHX*-24120	24V	15	15	C&L	Single	35	15.9
	120V	—	15	C&H	Single	35	15.9
DHFM†-1224	12V	60	60	C&L	Double	35	15.9
	24V	60	60	C&H	Double	35	15.9
DHFM†-24120	24V	30	30	C&L	Double	35	15.9
	120V	—	30	C&H	Double	35	15.9

* For all models, "X" represents either F (Flush Mount), FM (Floor Mount single-coil), R (Recessed), or S (Surface Mount).
† For Floor Mount, double coil models.
NOTE: Voltage supplied by a UL listed control panel

SpectrAlert Advance 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 × 1⅞-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 9 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, and 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 1 Hz 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 1 Hz 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.

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 1 Hz 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 4¹¹⁄₁₆ × 4¹¹⁄₁₆ × 2⅛-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.
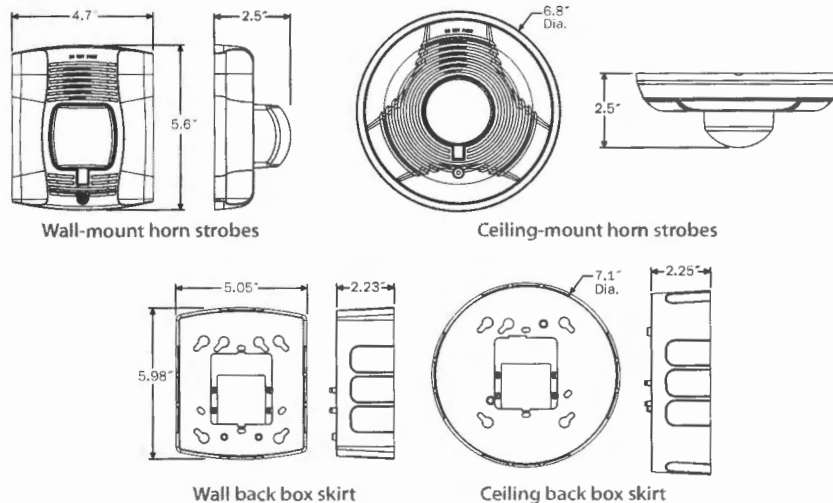
Physical/Electrical Specifications	
Standard Operating Temperature	32°F to 120°F (0°C to 49°C)
Humidity Range	10 to 93% non-condensing
Strobe Flash Rate	1 flash per second
Nominal Voltage	Regulated 12 DC/FWR or regulated 24 DC/FWR[1]
Operating Voltage Range[2]	8 to 17.5 V (12 V nominal) or 16 to 33 V (24 V 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 × 2.2″ high (180 mm diameter × 57 mm high)
Wall-Mount Trim Ring Dimensions (sold as a 5 pack) (TR-HS, TRW-HS)	5.7″ L × 4.8″ W × 0.35″ D (145 mm L × 122 mm W × 9 mm D)
Ceiling-Mount Trim Ring Dimensions (sold as a 5 pack) (TRC-HS, TRCW-HS)	6.9″ diameter × 0.35″ high (175 mm diameter × 9 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.

4	Non-Temporal	High	82	82	88	88	93	92	100	100

SpectrAlert Advance Dimensions

Wall-mount horn strobes

Ceiling-mount horn strobes

Wall back box skirt

Ceiling back box skirt

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
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
P4W	4-Wire Horn Strobe, Standard cd, White
Wall Strobes	
SR*†	Strobe, Standard cd, Red
SRH*†	Strobe, High cd, Red
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
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
PC4W	4-Wire Horn Strobe, Standard cd, White

Model	Description
Ceiling Strobes	
SCR	Strobe, Standard cd, Red
SCRH	Strobe, High cd, Red
SCW*	Strobe, Standard cd, White
SCWH	Strobe, High cd, White
Horns	
HR	Horn, Red
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
TR-HS	Trim Ring, Wall, Red
TRW-HS	Trim Ring, Wall White
TRC-HS	Trim Ring, Ceiling, Red
TRCW-HS	Trim Ring, 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, 1 0, and 115 candela settings. "High cd" refers to strobes that include 135, 50, 177, and 185 candela settings.

PORTLAND MAINE

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Receipts Details:

Tender Information: Check , Check Number: 2323
Tender Amount: 175.00

Receipt Header:

Cashier Id: bsaucier
Receipt Date: 3/1/2012
Receipt Number: 41350

Receipt Details:

Referance ID:	5412	Fee Type:	BP-Constr
Receipt Number:	0	Payment Date:	
Transaction Amount:	120.00	Charge Amount:	120.00
Job ID: Job ID: 2012-03-3413-FAFS - Fire alarm permit			
Additional Comments: 119 Sherman 1 of 4			

Referance ID:	5413	Fee Type:	BP Elec Comm
Receipt Number:	0	Payment Date:	
Transaction Amount:	55.00	Charge Amount:	55.00
Job ID: Job ID: 2012-03-3413-FAFS - Fire alarm permit			