

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



# CITY OF PORTLAND BUILDING PERMIT



**This is to certify that**

SMITH MARK L & STEPHANIE L DUNN JTS/Maine  
State Security

**Located at**

43-45 CUMBERLAND AVE

**PERMIT ID:** 2013-00480    **ISSUE DATE:** 05/21/2013    **CBL:** 013 K062001

has permission to **install supervised 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 cloed-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 procured prior to occupancy.
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/s/ Ben Wallace Jr

**Fire Official**

/s/ Tammy Munson

**Building Official**

**THIS CARD MUST BE POSTED ON THE STREET SIDE OF THE PROPERTY  
THERE IS A PENALTY FOR REMOVING THIS CARD**

*Approved Property Use - Zoning*

*Building Inspections*

*Fire Department*

*Approved plans are  
in E-Plan and the  
G drive.*

*Ben*

**BUILDING PERMIT INSPECTION PROCEDURES**  
Please call 874-8703 (ONLY)  
or email: [buildinginspections@portlandmaine.gov](mailto: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.**
- **Per Section 107.3.1 of the Maine Uniform Building and Energy Code (MUBEC). One set of printed approved stamped construction documents shall be kept at the site of work and shall be open to inspection by building officials.**

**REQUIRED INSPECTIONS:**

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.

**City of Portland, Maine - Building or Use Permit**

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

Permit No:

2013-00480

Date Applied For:

03/13/2013

CBL:

013 K062001

**Proposed Use:**

43 Cumberland Ave - 4 dwelling units &amp; 45 Cumberland Ave. 1 dwelling unit

**Proposed Project Description:**

install supervised fire alarm system.

**Dept:** Zoning**Status:** Approved w/Conditions**Reviewer:** Ann Machado**Approval Date:** 03/14/2013**Note:****Ok to Issue:** **Conditions:**

- 1) This property shall remain as five (5) dwelling units - four (4) dwelling units in 43 Cumberland & one (1) dwelling unit in 45 Cumberland Ave.. Any change of use shall require a separate permit application for review and approval.

**Dept:** Fire**Status:** Approved w/Conditions**Reviewer:** Ben Wallace Jr**Approval Date:** 05/21/2013**Note:****Ok to Issue:** **Conditions:**

- 1) In field installation shall be installed per code as conditions dictate.
- 2) A 4100 series Knox Box is required.
- 3) The fire alarm technician shall be present for the fire inspection. System acceptance and commissioning must be coordinated with alarm and suppression system contractors and the Fire Department. Call 874-8703 to schedule.
- 4) Through-penetrations and membrane penetrations in fire walls, fire barrier walls, and fire resistance rated horizontal assemblies shall be protected by firestop systems or devices in conformance with NFPA 101:8.3.5 (ASTM E 814 or ANSI/UL 1479). Providing firestop labels at each firestop system or device and an onsite manual containing the detail for each firestop system or device used for the project will streamline final inspection approvals.
- 5) All smoke detectors shall be photoelectric.
- 6) The installation shall comply with the following:  
City of Portland Chapter 10, Fire Prevention and Protection;  
NFPA 1, Fire Code (2009 edition), as amended by City Code;  
NFPA 101, Life Safety Code (2009 edition), as amended by City Code;  
City of Portland Fire Department Rules and Regulations;  
NFPA 72, National Fire Alarm and Signaling Code (2010 edition), as amended by Fire Department Rules and Regulations; and  
NFPA 70, National Electrical Code (2011 edition) as amended by the State of Maine
- 7) Fire protection systems shall be maintained. If system is to be off line over 4 hours a fire watch shall be in place. Dispatch notification required 874-8576.
- 8) The fire alarm system shall have a new fire alarm inspection sticker.
- 9) Visible signals are required per NFPA 101:9.6.3.5 in accordance with NFPA 72:18.5.4.4. Audible and visible notification signals are not required in exit stair enclosures by NFPA 101:9.6.3.5.5 and NFPA 101:9.6.3.6.4.
- 10) All fire alarm records required by NFPA 72 should be stored in an approved cabinet located at the FACP labeled "FIRE ALARM RECORDS".
- 11) Supervising Station monitoring for addressable fire alarm systems shall be by point.
- 12) A master box connection is not authorized for this building.
- 13) Notice: The first scheduled final inspection fee is at no charge. Additional inspections shall be billed at \$75 for each inspector.
- 14) Records cabinet, FACP, annunciator(s), and pull stations shall be keyed alike.

**PERMIT ID:** 2013-00480**Located at:** 43-45 CUMBERLAND AVE**CBL:** 013 K062001

# City of Portland, Maine - Building or Use Permit Application

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

Permit No: 2013-00480	Issue Date:	CBL: 013 K062001
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Location of Construction: 43 CUMBERLAND AVE	Owner Name: SMITH MARK L & STEPHANIE L DUNN JTS	Owner Address: PO BOX 575 KINGFIELD, ME 04947	Phone:
Business Name:	Contractor Name: Maine State Security	Contractor Address: 1308 New County Road Dayton ME 04005	Phone (207) 247-4371
Lessee/Buyer's Name	Phone:	Permit Type: Fire Alarm System	Zone: R6
Past Use: 4 Unit Apartment Bld	Proposed Use: 4 Unit	Permit Fee: \$50.00	Cost of Work: \$3,000.00
Proposed Project Description: Fire alarm permit		FIRE DEPT: <input type="checkbox"/> Approved <input type="checkbox"/> Denied <input type="checkbox"/> N/A	INSPECTION: Use Group: Type:
		Signature:	Signature:
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: bjs	Date Applied For: 03/13/2013	<b>Zoning Approval</b>		
<ol style="list-style-type: none"> <li>This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.</li> <li>Building permits do not include plumbing, septic or electrical work.</li> <li>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..</li> </ol>		<b>Special Zone or Reviews</b> <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:	<b>Zoning Appeal</b> <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:	<b>Historic Preservation</b> <input 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:

## 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
---------------------------------------------	------	-------



# 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: 41& 43 Cumberland Ave CBL: \_\_\_\_\_

Exact location: (within structure) In side Lobby Door

Type of occupancy(s) (NFPA & ICC): 4 Story 4 Unit Apartment Building

Building owner: 43 Cumberland Ave Apartments

System Designer (point of contact): Unicad Inc  
Must be

Designer phone: 801-985-0410 E-mail: wayne@unicad.net

Installing contractor: Maine State Security Certificate of Fitness No: n/s

Contractor phone: 2-7-247-4371 E-mail: chris@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
- Wiring diagram
- Annunciator details
- Input/ Output Matrix
- Equipment data sheets
- Electrical Permit Pulled (check alarm/com)
- Scope of Work
- 11 1/2 x 17s
- pdf copy (may be e-mailed)
- Designer qualifications
- Battery/ voltage drop calcs

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

COST OF WORK: 3000

PERMIT FEE: 50.00  
(\$10 PER \$1,000 + \$30 FOR THE FIRST \$1,000)

RECEIVED

MAR 13 2013

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](http://www.portlandmaine.gov/fire) for every submittal. Submit all plans in electronic PDF in addition to readable 11 1/2 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](http://www.portlandmaine.gov/fire).

Applicant signature: Christie E. [Signature] Date: 3-12-13

# Maine State Security Services

*A Division of L'Heureux Inc.*

1308 New County RD Dayton, ME 04005  
Tel: 207-247-4371  
Fax: 207-929-8484  
Email: info@mainestatesecurity.com

March 6, 2013

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

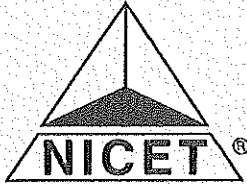
Re: 41 thru 43 Cumerland Ave

Scope of work: We intend to install a Fire Alarm System for the buildings automatic extinguishing system per NFPA101 for new Apartment buildings with 4 units and 4 stories. We will be monitoring sprinkler flow and tamer off the main riser, with notification in all units, Smoke detection and Co detection will be accomplished by 120v system and installed by the contracted electrician. There will be a smoke over the fire alarm panel as is required by NFPA. The system will be all hard wired addressable devices, all UL listed for commercial fire. There will be a pull station at the main entry in front for use when the sprinkler system is down, Fire Alarm control panel will be located in the main entry to the 2<sup>nd</sup> and third floors in the front, with a Knox Box right outside that door, path of communication to the central station will be within NFPA 72 by a ul listed devices, the path at this time will most likely be regular phones lines but has not been finalized, but may be by Alarm Net's IGSM Radio that is listed as a sole communication device for commercial fire or dual path with the internet

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



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KNIGHT**

by Honeywell

## **IntelliKnight® Model 5700 Single Loop Addressable Fire Alarm Control System**

**The affordable addressable fire  
alarm control panel solution.**

IntelliKnight Model 5700 is a class leading single loop addressable fire alarm control/communicator system. 5700 provides you with the revolutionary value and performance of addressable sensing technology combined with exclusive, built-in digital communication, distributed intelligent power, that includes an easy to use interface. Powerful features such as drift compensation and maintenance alert are delivered in this powerful FACP from Silent Knight.

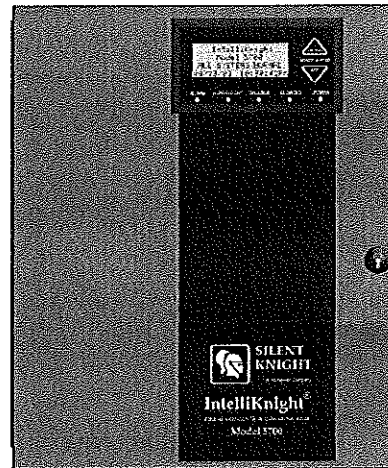
For more information about the IntelliKnight system, or to locate your nearest source, please call 1-800-328-0103.

### **Description**

The basic IntelliKnight 5700 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. 5700 supports SD or SK devices. 5700 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 50 SK detectors *and* 50 SK modules creating a total point capacity of 100 points
- Built in support for up to 50 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
- Drift compensation
- 13 pre-programmed output cadences (including ANSI-3.41) and 4 programmable outputs
- Notification circuits configurable as 1 Class A (Style Z) or 2 Class B (Style Y), or auxiliary power for resettable, constant, or door holder power
- Built-in synchronization for AMSECO, Gentex®, Faraday, System Sensor® and Wheelock® appliances
- Built-in annunciator with 80-character LCD display
- RS-485 bus provides communication to system accessories
- Upload or download programming, event history, or detector status onsite or from a remote location using a PC and 5660 Silent Knight Software Suite (SKSS)
- Two built-in Form C programmable relays rated at 2.5A at 27.4 VDC



**Model 5700**

- Improvements in SKSS deliver five times faster upload/downloads
- Built-in RS-232 interface for programming via PC
- Built-in Form C trouble relay rated at 2.5A at 27.4 VDC
- Programmable date setting for Daylight Saving Time

### **Installation**

The 5700 is a surface mount FACP

### **Compatibility**

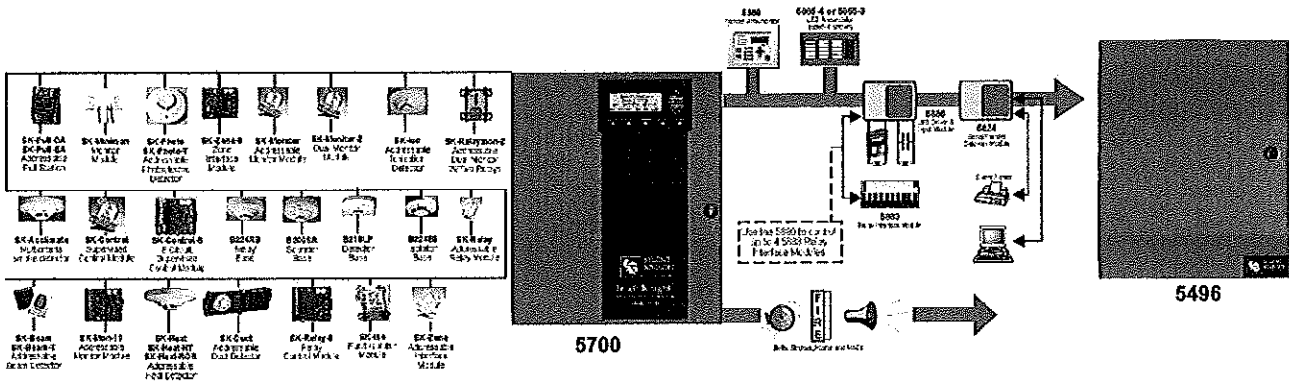
The 5700 signal line circuit (SLC) supports multiple device types of the *same* protocol:

- SK (System Sensor)
- SD

You cannot mix SD and SK SLC devices on a FACP.



# Model 5700 Fire Alarm Control Panel



## Specifications

### Electrical

Primary AC: 120 VAC, 60 Hz, 1.5A  
 Total Accessory Load: 2.5A @ 27.4 VDC  
 Notification Power: 2.5A @ 27.4 VDC, power-limited  
 Standby Current: 200 mA  
 Alarm Current: 325 mA  
 Notification/Aux Power Circuits: 2.5A @ 27.4 VDC per circuit, power-limited  
 Battery Charging Capacity: 7.0-35.0 AH  
 Battery Size: 7 AH max. allowed in FACP cabinet. Larger capacity batteries can be housed in an RBB accessory cabinet.

### Physical

Dimensions:  
 12.75" W x 15.2" H x 3.4" D  
 (32.39 W x 38.42 H x 8.57 D cm)  
 Weight: 11.5 lbs. (5.2 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.

Other Approvals: UL Listed;

CSFM 7170-0559: 144; MEA 429-92-E

Vol. XVI

## S-BUS Accessories

### 5860/R Remote Fire Annunciator

Features the same 80 character backlit LCD display keypad and firefighter's key switch as the 5700. The system can be fully programmed and operated from any 5860. 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.

### 5883 Relay Board

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

### 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. Interfaces with building control system.

## Miscellaneous Accessories

### 5660 Silent Knight Software Suite

User-friendly Windows software for remote programming of 5700s using a PC. 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.

### 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)

### SD505-DTS-K

Remote test switch that provides remote key operated test function and annunciation of detector alarm with SD505-DUCTR.

### Hochiki and SK Devices

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

53624 SD Devices Specification Sheet

53623 SK Protocol Devices Specification Sheet



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This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice. For more information, contact Silent Knight 12 Clintonville Road, Northford, CT 06472-1610 Phone: (800) 328-0103, Fax: (203) 484-7118. [www.silentknight.com](http://www.silentknight.com)

**MADE IN AMERICA**

P/N 350392 Rev H2  
 © 2012 Honeywell International Inc.



## Model 5700 Basic Operating Instructions

These Instructions must be framed and displayed next to the 5700 panel in accordance with NFPA 72 fire code for Local Protected Fire Alarm Systems. Test the system in accordance to NFPA 72. Refer to Installation Manual P/N 151295.

Operation	Task to Perform
Silence Alarms and Troubles	Press  then enter a code if prompted. Silence LED will light.
Reset Alarms	Press  then enter a code if prompted.
Acknowledge Alarms and Troubles	Press  then enter a code if prompted. When the Alarm or Trouble is acknowledged an  will appear in the annunciator display as shown Below. 
View Alarms and Troubles	Press the  or  button to view Alarms and Troubles.
Conduct a Fire Drill	<ol style="list-style-type: none"> <li>1. Press  to access Main Menu, then enter a code if prompted.</li> <li>2. Then press  to select System Tests.</li> <li>3. Enter code if prompted, then press  to select Fire Drill.</li> <li>4. Press  to start the fire drill.</li> <li>5. Press  to end the fire drill.</li> </ol>
View a Points Status	<ol style="list-style-type: none"> <li>1. Press  to access Main Menu, then enter a code if prompted.</li> <li>2. Then press  to select Point Functions.</li> <li>3. Enter code if prompted, then press  to select Point Status.</li> <li>4. Select the module the device is located on by using the  or . Then press .</li> <li>5. Enter the point number.</li> </ol>
Check Detector Sensitivity	<ol style="list-style-type: none"> <li>1. Follow steps 1 through 5 for viewing a point status.</li> <li>2. Press  to view detector sensitivity.</li> </ol>
Set Time and Date	<ol style="list-style-type: none"> <li>1. Press  to access Main Menu, then enter a code if prompted.</li> <li>2. Then press  to select Set Time &amp; Date. Enter a code if prompted</li> <li>3. Make changes in the fields on the screen as necessary.</li> <li>4. Press  if you wish to keep the changes.</li> <li>5. Press  to set the entered time and date.</li> </ol>
Enable / Disable a Point	<ol style="list-style-type: none"> <li>1. Rotate the key or enter a code to access to access Main Menu.</li> <li>2. Then press  to select Point Functions.</li> <li>3. Press  to select Disable / Enable Point.</li> <li>4. Press  to Disable / Enable Pt.</li> <li>5. Use the  or  to move through the list. Then press  to select the module where the point you want to disable/enable is located</li> <li>6. Enter the point or circuit number that you want to disable/enable.</li> <li>7. Press  key to toggle between NORMAL (enable) or DISABLE.</li> </ol>
View Event History	<ol style="list-style-type: none"> <li>1. Press  to access Main Menu, then enter a code if prompted.</li> <li>2. Press  to select Event History.</li> <li>3. Press the  or  to view events in the history buffer.</li> </ol>

Cut Along Dotted Line



## 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

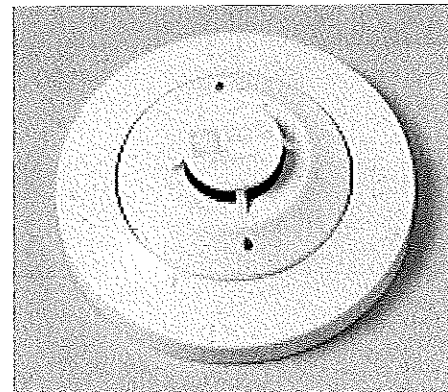
Operating Voltage: 15–32 VDC  
Standby Current:  
300 µA @ 24 VDC Maximum  
Alarm Current: 6.5 mA @ 24 VDC max (with LED on)

##### 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:

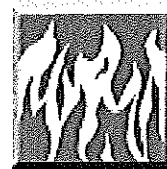
B210LP	(included) 6" base
B501	2 wire base
B501BHT-2	Temporal base
B224RB	Relay base
B224BI	Isolator base
B501BH-2	Sounder base



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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.

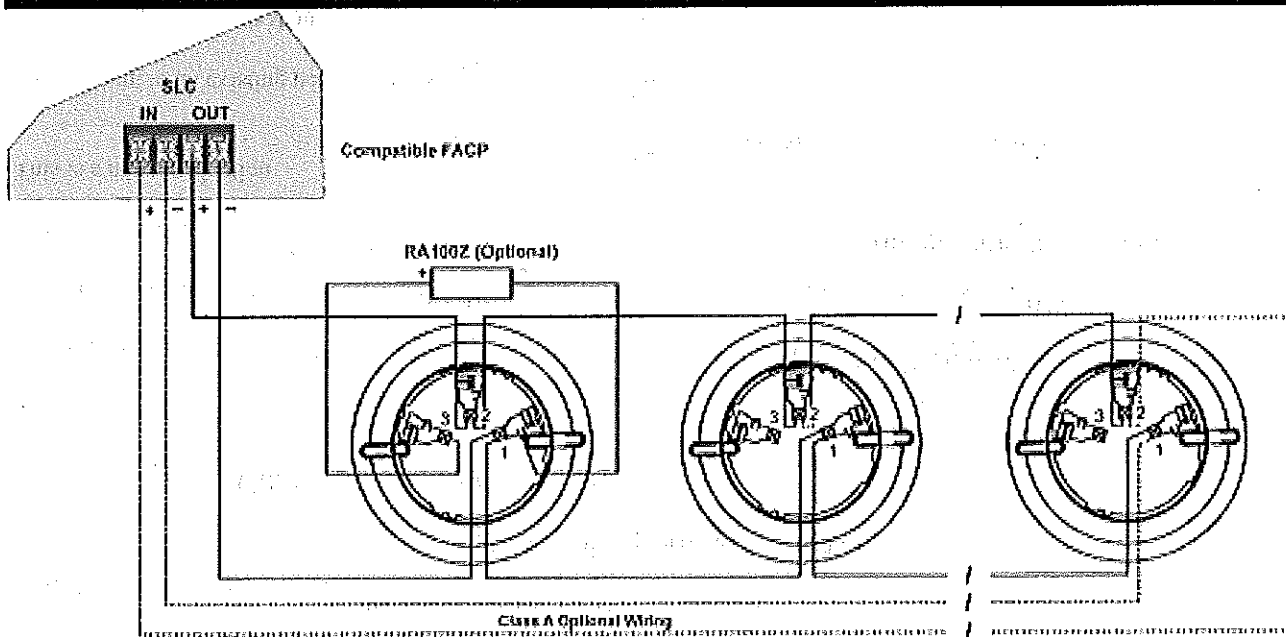
The base shall permit direct interchange with SK-Photo or SK-Photo-T. Base shall be the appropriate twist-lock base part number B210LP (included).

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



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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 your 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 activate 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 activate
- 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:

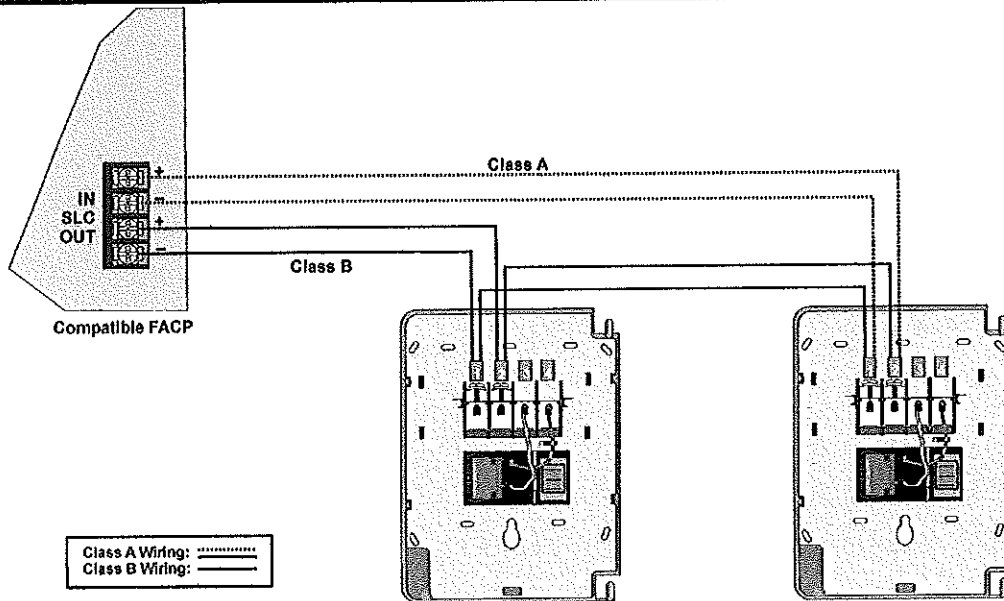
5600  
5700  
5808  
5820XL

# 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  $\mu$ A

Wire Gauge: Up to 12 AWG (3.1 mm<sup>2</sup>)

#### 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**

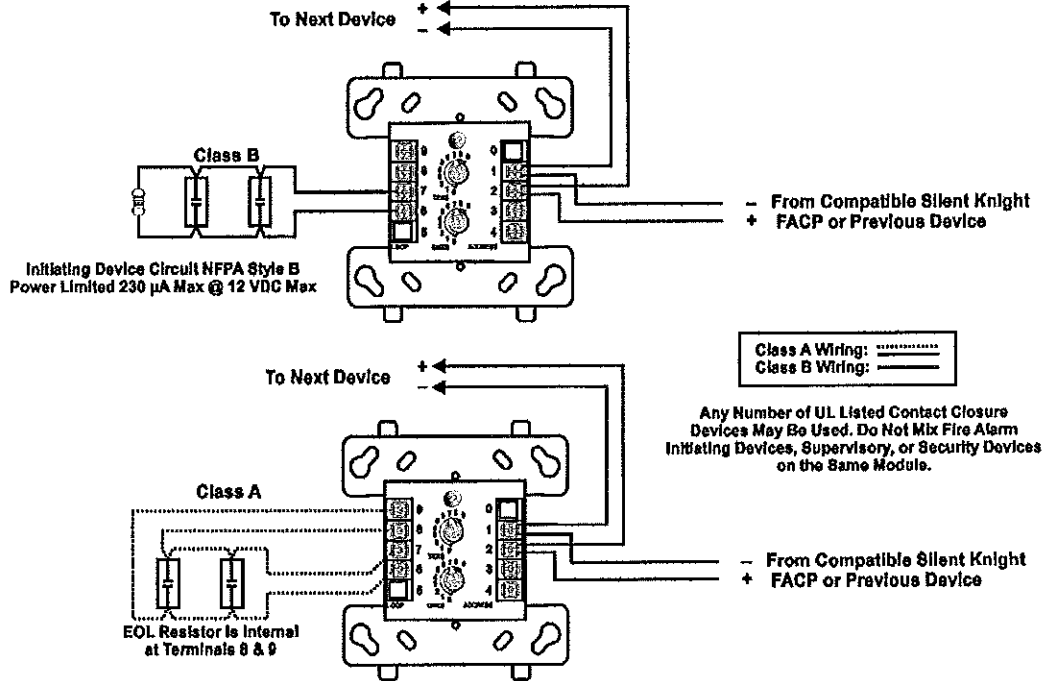
by Honeywell

This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice. For more information, contact Silent Knight 12 Clintonville Road, Northford, CT 06472-1610 Phone: (800) 328-0103, Fax: (203) 484-7118. [www.silentknight.com](http://www.silentknight.com)

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FORM# 350135 Rev A  
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# Model SK-Monitor Intelligent Monitor Module



Wiring SK-Monitor Modules

## Specifications

### Physical

Height: 4.5" (11.4 cm)  
Width: 4" (10.2 cm)  
Depth: 1.25" (3 cm)  
Shipping Weight: 6.3 oz (196 g)

### Electrical

Operating Voltage: 15 – 32 VDC  
Current Draw (LED on): 5.0 mA max  
Operating Current (LED flashing): 375  $\mu$ A  
Standby Current:

400  $\mu$ A max @ 24 VDC (one communication every 5 sec with 47K EOL)  
550  $\mu$ A max @ 24 VDC (one communication every 5 sec with EOL <1K)

5.5 mA (with LED latched on)

LED Current: 5.5 mA (with LED latched on)  
End-of-Line Resistance: 47K  $\Omega$

Initiating Device Circuit Wiring Resistance: 1,500  $\Omega$  max  
SLC Loop Resistance: 40  $\Omega$  max.

### Environmental

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

## Ordering Information

SK-Monitor      Monitoring Module

## Accessories

SMB500      4" Square Surface Mount Electrical Box



by Honeywell

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Phone: (800) 328-0103, Fax: (203)484-7118. [www.silentknight.com](http://www.silentknight.com)

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**SILENT  
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**SK-Monitor**

**Intelligent Monitor Module**

The SK-Monitor module provides an interface to contact devices, such as security contacts, waterflow switches, or pull stations.

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

### Description

The SK-Monitor is an addressable monitor module for use with Silent Knight IntelliKnight series fire alarm control panels (FACPs). The SK-Monitor is intended for use in intelligent, two-wire systems, where individual address of each module is selected using the built-in rotary switches.

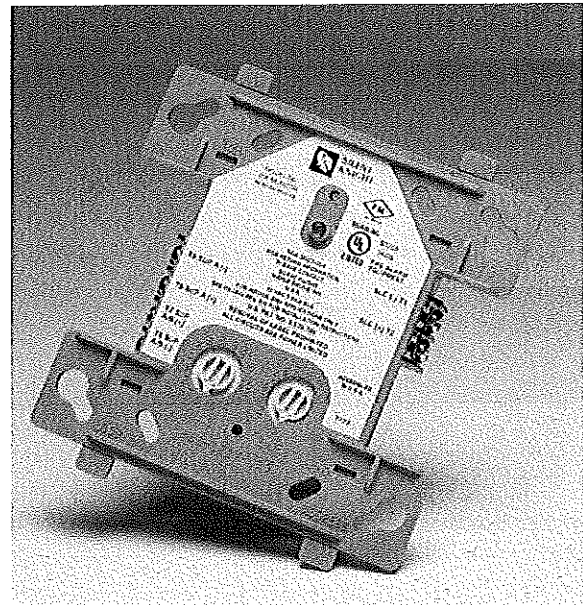
The SK-Monitor supports Class A supervised or Class B supervised wiring to the load device. Conventional 4-wire smoke detectors can be monitored for alarm and trouble conditions.

### Features

- Single contact monitor
- Support for Class A and Class B wiring
- Fully supervised
- Panel controlled status LED that flashes green in normal state and is solid red in alarm
- Attractive ivory cover plate
- Rotary address switches for fast installation
- SEMS screws for easy wiring
- UL Listed

### Installation

The SK-Monitor mounts directly into a 4" square electrical box. The box must have a minimum depth of 2-1/8". A surface mount electrical box (System Sensor<sup>®</sup> PN SMB500) is available from Silent Knight.



**SK-Monitor**

### Compatibility

The SK-Monitor is compatible with the following IntelliKnight FACP's:

5700  
5808  
5820XL





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KNIGHT**

by Honeywell

## SK-Monitor-2

### Intelligent Dual Monitor Module

The SK-Monitor-2 module is capable of monitoring two separate Class B circuits simultaneously, making it ideal for waterflow tamper switch and flow switch monitoring.

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

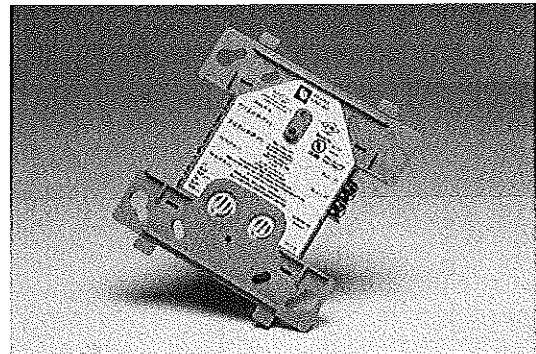
#### Description

The SK-Monitor-2 is an addressable monitor module with two initiating circuits for use with Silent Knight IntelliKnight series fire alarm control panels (FACPs). The SK-Monitor-2 acts as an interface to contact devices, such as waterflow switches and pull stations.

The SK-Monitor-2 supports Class B supervised wiring to the load device. Conventional 4-wire smoke detectors can be monitored for alarm and trouble conditions.

#### Features

- Monitor two circuits, with unique addresses, simultaneously
- Support for Class B wiring
- Fully supervised
- Panel controlled status LED that flashes green in normal state and is solid red in alarm
- Attractive ivory cover plate
- Rotary address switches for fast installation
- SEMS screws for easy wiring
- UL Listed



**SK-Monitor-2**

#### Installation

SK-Monitor-2 mounts directly into a 4" square electrical box. The box must have a minimum depth of 2-1/8". A surface mount electrical box (System Sensor® part number SMB500) is available from Silent Knight.

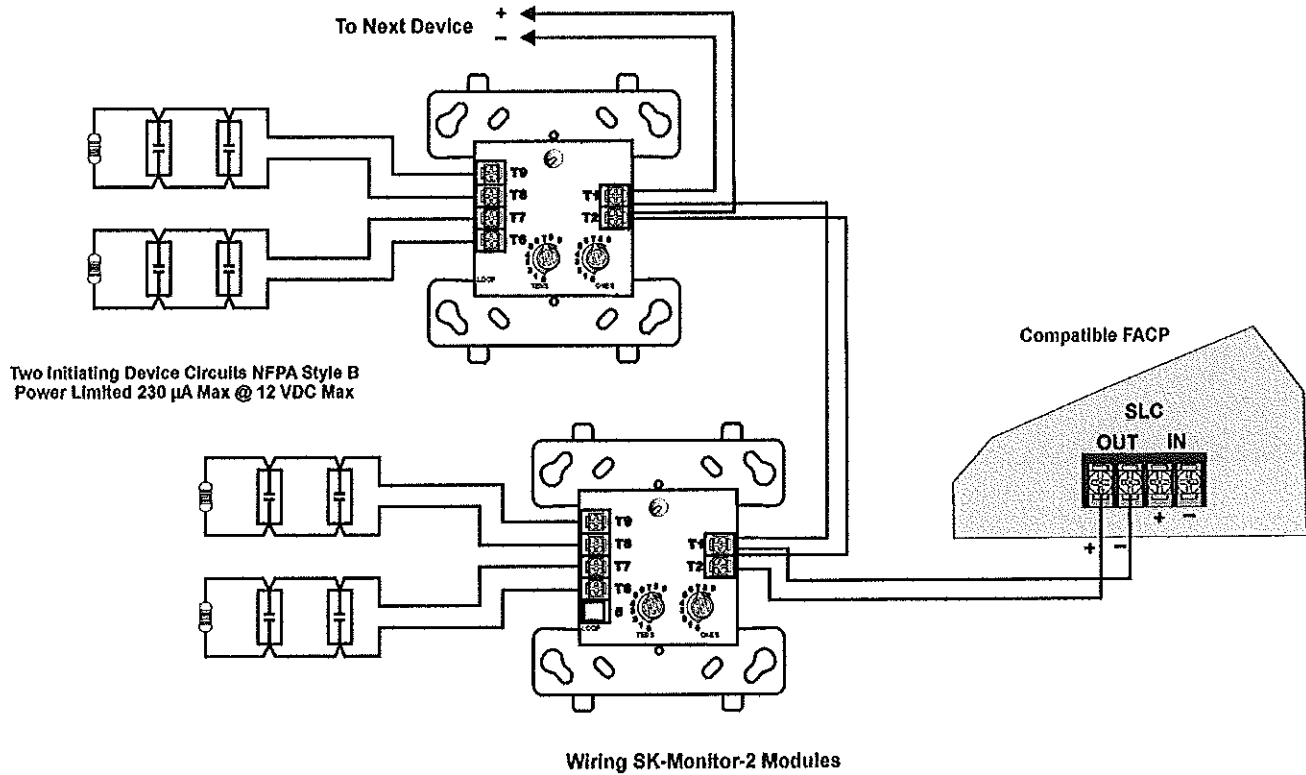
#### Compatibility

The SK-Monitor-2 is compatible with the following IntelliKnight FACP's:

5700  
5808  
5820XL

# Model SK-Monitor-2

## Intelligent Dual Monitor Module



### Specifications

#### Physical

Height: 4.5" H x 4" W x 1.25" D

Shipping Weight: 6.3 oz (196 g)

#### Electrical

Operating Voltage: 15 – 32 VDC

Current Draw (LED on): 6.4 mA max

Operating Current (LED flashing): 750  $\mu$ A

End-of-Line Resistance: 47K  $\Omega$

Max IDC wiring resistance: 1,500 $\Omega$

SLC Line Loop Resistance: 40 $\Omega$  max.

#### Environmental

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

Humidity: 10% – 93% non-condensing

#### Accessories

SMB500 4" Square Surface Mount Electrical Box



by Honeywell

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Phone: (800) 328-0103, Fax: (203)484-7118. [www.silentknight.com](http://www.silentknight.com)

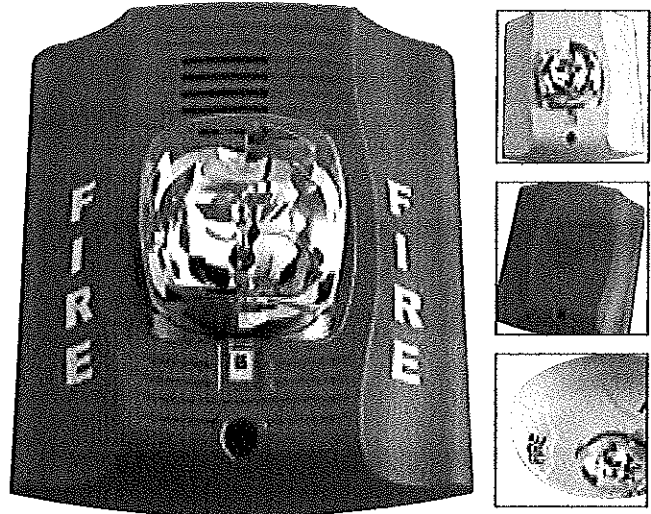
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FORM# 350124 Rev B  
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## Selectable-Output Horns, Strobes, and Horn Strobes

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



**SPECTRAlert**  
**ADVANCE**  
From System Sensors

### Features

- Plug-In design with minimal intrusion into the back box
- Tamper-resistant construction
- Automatic selection of 12- or 24-volt operation at 15 and 15/75 candela
- Field-selectable candela settings on wall and ceiling units: 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, and 185
- Horn rated at 88+ dBA at 16 volts
- Rotary switch for horn tone and three volume selections
- Universal mounting plate for wall and ceiling units
- Mounting plate shorting spring checks wiring continuity before device installation
- Electrically compatible with existing SpectrAlert products
- Compatible with MDL sync module

**The SpectrAlert Advance series** offers the most versatile and easy-to-use line of horns, strobes, and horn strobes in the industry. With white and red plastic housings, wall and ceiling mounting options, and plain and FIRE-printed devices, SpectrAlert Advance can meet virtually any application requirement.

Like the entire SpectrAlert Advance product line, horns, strobes, and horn strobes include a variety of features that increase their application versatility while simplifying installation. All devices feature plug-in designs with minimal intrusion into the back box, which make installations fast and foolproof while virtually eliminating costly and time-consuming ground faults. Furthermore, a universal mounting plate with an onboard shorting spring tests wiring continuity before the device is installed, protecting devices from damage.

In addition, field-selectable candela settings, automatic selection of 12- or 24-volt operation, and a rotary switch for horn tones with three volume selections enables installers to easily adapt devices to suit a wide range of application requirements.

### Agency Listings



54011 (chimes, horn strobes, horns)  
55512 (strobes)



3023572



MEA452-05-E



7125-1653186 (indoor strobes)  
7125-1653188 (horn strobes,  
chime strobes)  
7135-1653189 (horns, chimes)

# SpectrAlert Advance Specifications

## Architect/Engineer Specifications

### General

SpectrAlert Advance horns, strobes, and horn strobes shall mount to a standard 4 x 4 x 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 x 4 x 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 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 4½/16 x 4½/16 x 2½/16-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 <sup>1</sup>
Operating Voltage Range <sup>2</sup>	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 x 2.5" high (173 mm diameter x 64 mm high)
Wall-Mount Dimensions (including lens)	5.6" L x 4.7" W x 2.5" D (142 mm L x 119 mm W x 64 mm D)
Horn Dimensions	5.6" L x 4.7" W x 1.3" D (142 mm L x 119 mm W x 33 mm D)
Wall-Mount Back Box Skirt Dimensions (BBS-2, BBSW-2)	5.9" L x 5.0" W x 2.2" D (151 mm L x 128 mm W x 56 mm D)
Ceiling-Mount Back Box Skirt Dimensions (BBSC-2, BBSCW-2)	7.1" diameter x 2.2" high (180 mm diameter x 57 mm high)
Wall-Mount Trim Ring Dimensions (sold as a 5 pack) (TR-HS, TRW-HS)	5.7" L x 4.8" W x 0.35" D (145 mm L x 122 mm W x 9 mm D)
Ceiling-Mount Trim Ring Dimensions (sold as a 5 pack) (TRC-HS, TRCW-HS)	6.9" diameter x 0.35" high (175 mm diameter x 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.

## UL Current Draw Data

### UL Max. Strobe Current Draw (mA RMS)

	Candela	8-17.5 Volts		16-33 Volts	
		DC	FWR	DC	FWR
Standard	15	123	128	66	71
Candela Range	15/75	142	148	77	81
	30	NA	NA	94	96
	75	NA	NA	158	153
	95	NA	NA	181	176
	110	NA	NA	202	195
	115	NA	NA	210	205
High	135	NA	NA	228	207
Candela Range	150	NA	NA	246	220
	177	NA	NA	281	251
	185	NA	NA	286	258

### UL Max. Horn Current Draw (mA RMS)

Sound Pattern	dB	8-17.5 Volts		16-33 Volts	
		DC	FWR	DC	FWR
Temporal	High	57	55	69	75
Temporal	Medium	44	49	58	69
Temporal	Low	38	44	44	48
Non-temporal	High	57	56	69	75
Non-temporal	Medium	42	50	60	69
Non-temporal	Low	41	44	50	50
Coded	High	57	55	69	75
Coded	Medium	44	51	56	69
Coded	Low	40	46	52	50

### 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						
	15	15/75	15	15/75	30	75	95	110	115
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
<b>FWR Input</b>									
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

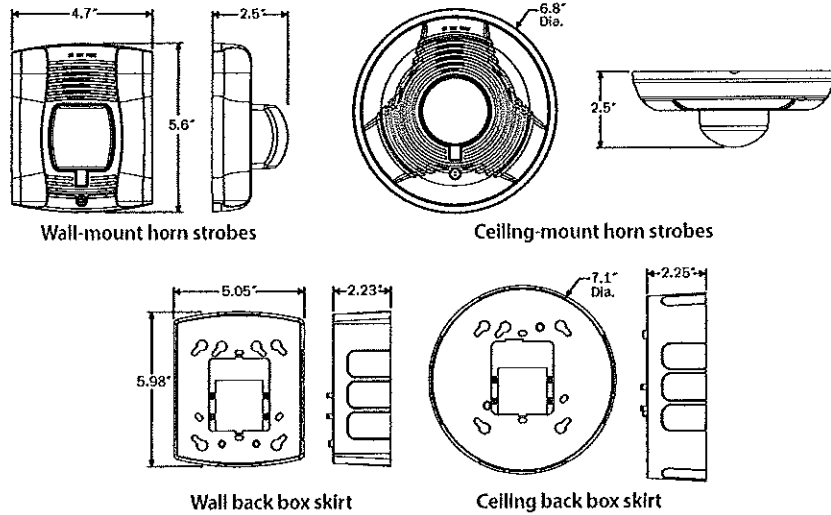
## Horn Tones and Sound Output Data

### Horn and Horn Strobe Output (dBA)

Switch Position	Sound Pattern	dB	8-17.5 Volts		16-33 Volts		24-Volt Nominal			
							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 <sup>†</sup>	Coded	High	82	82	88	88	93	92	101	101
8 <sup>†</sup>	Coded	Medium	78	78	85	85	90	90	97	98
9 <sup>†</sup>	Coded	Low	75	75	81	81	88	85	96	92

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

## SpectrAlert Advance Dimensions



## SpectrAlert Advance Ordering Information

Model	Description
<b>Wall Horn Strobes</b>	
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
<b>Wall Strobes</b>	
SR*†	Strobe, Standard cd, Red
SRH*†	Strobe, High cd, Red
SW*	Strobe, Standard cd, White
SWH*	Strobe, High cd, White
<b>Ceiling Horn Strobes</b>	
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
<b>Ceiling Strobes</b>	
SCR	Strobe, Standard cd, Red
SCRH	Strobe, High cd, Red
SCW*	Strobe, Standard cd, White
SCWH	Strobe, High cd, White
<b>Horns</b>	
HR	Horn, Red
HW	Horn, White
<b>Accessories</b>	
BBS-2	Back Box Skirt, Wall, Red
BB5W-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, 110, and 115 candela settings. \*High cd\* refers to strobes that include 135, 150, 177, and 185 candela settings.



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

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