



**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.

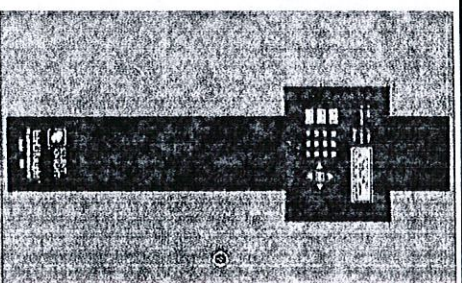
For more information about the IntelliKnight system, or to locate your nearest source, please call 1-800-328-0103.

### 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

## Miscellaneous Accessories

## 5660 Silent Knight Software Suite

for automatic, manual, waterflow, sprinkler supervisory (DACT non-coded) signalling services.

UL Listed  
CSEM 7165-0559-01A2-

ME4 429-92-E Vol. XIV

ME4 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.

notification appliance circuit outputs.

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

## 5880 LED/IO Module

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

sounder. The 5865-4 adds a silence and reset switch to the package.

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

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

IntelliKnight & JumpStart are Registered

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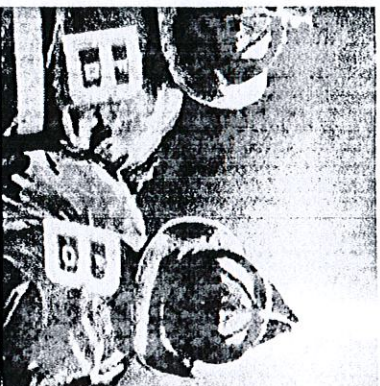
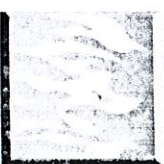
350386 Rev. H

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## 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

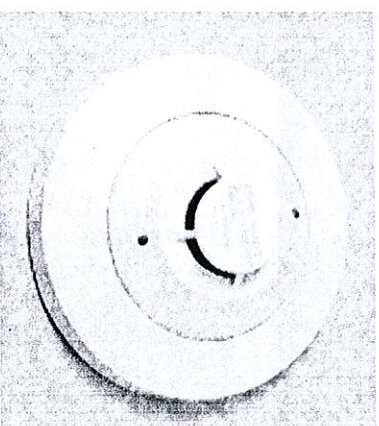
Operating Voltage: 15–32 VDC  
Standby Current:  
300 µA @ 24 VDC Maximum  
Alarm Current: 6.5 mA @ 24 VDC max (with LED on)

#### 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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# 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.

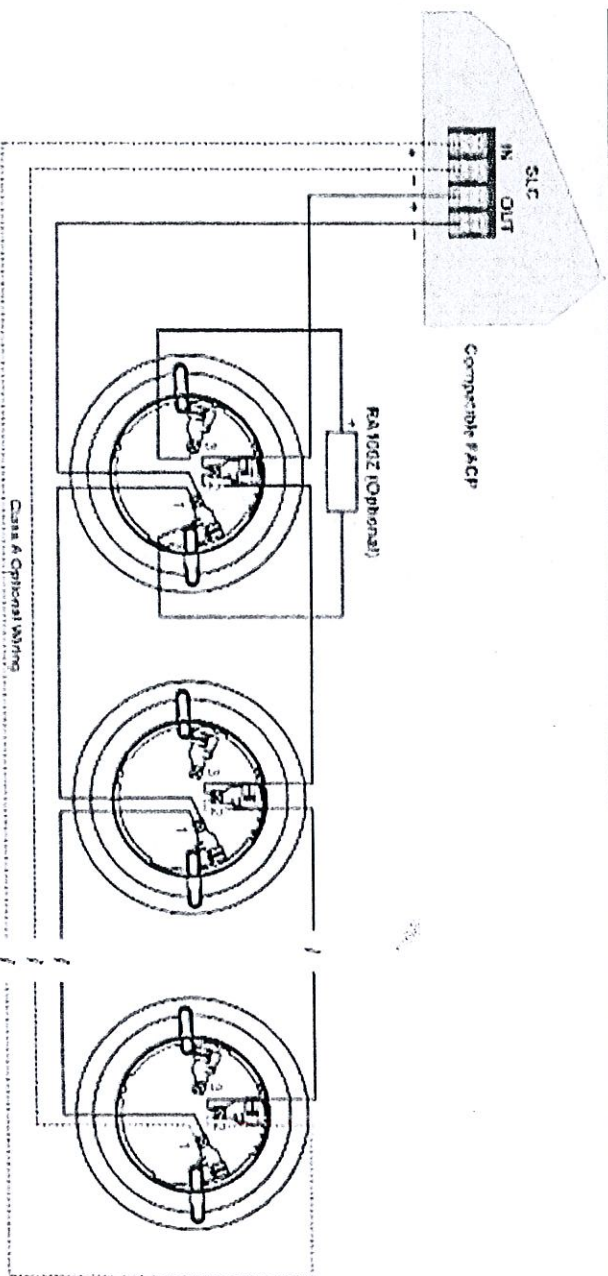
The base shall permit direct interchange with SK-Photo or SK-Photo-T. Base shall be the appropriate twist-lock base part number B210LP (included).

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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## 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

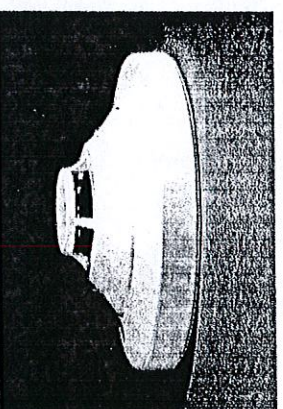
Height: 2.0" (51 mm)  
Diameter: 6.1" (155 mm) installed in B210LP base  
Shipping Weight: 4.8 oz (137 g)

#### 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



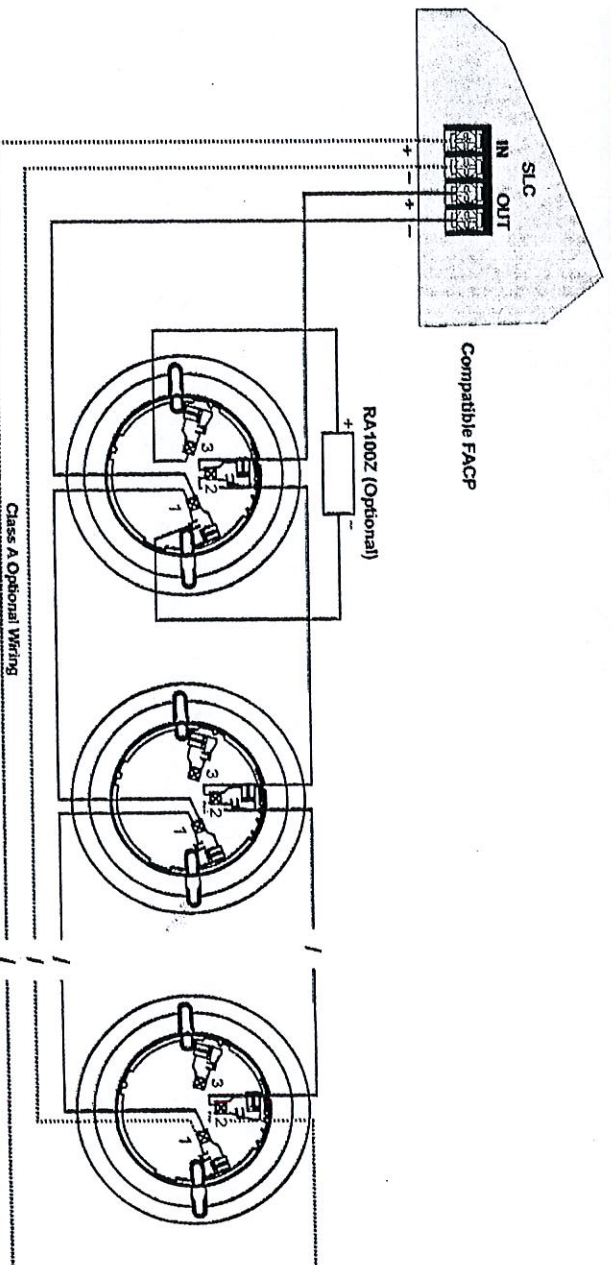
# Model SK-Heat, SK-Heat-HT, SK-Heat ROR Addressable Thermal and Rate-of-Rise Thermal Detectors

## 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.



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## 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.

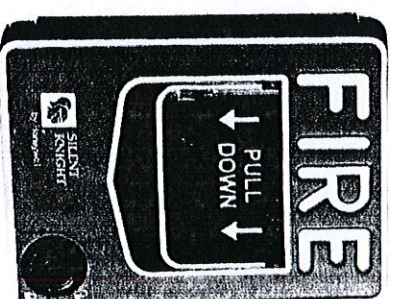
For more information about the IntelliKnight system, or to locate you nearest source, please call 1-800-328-0103.

### Description

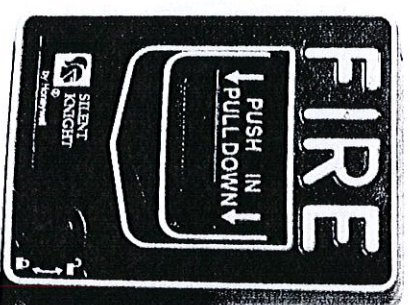
The SK-Pull-SA is a single action pull station requiring only one motion to activate the station. The SK-Pull-DA is a dual action pull station requiring two motions to activate the station. Both pull stations are designed to work with Silent Knight IntelliKnight series fire alarm control panels (FACPs).

### 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 (ADAAAG) 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

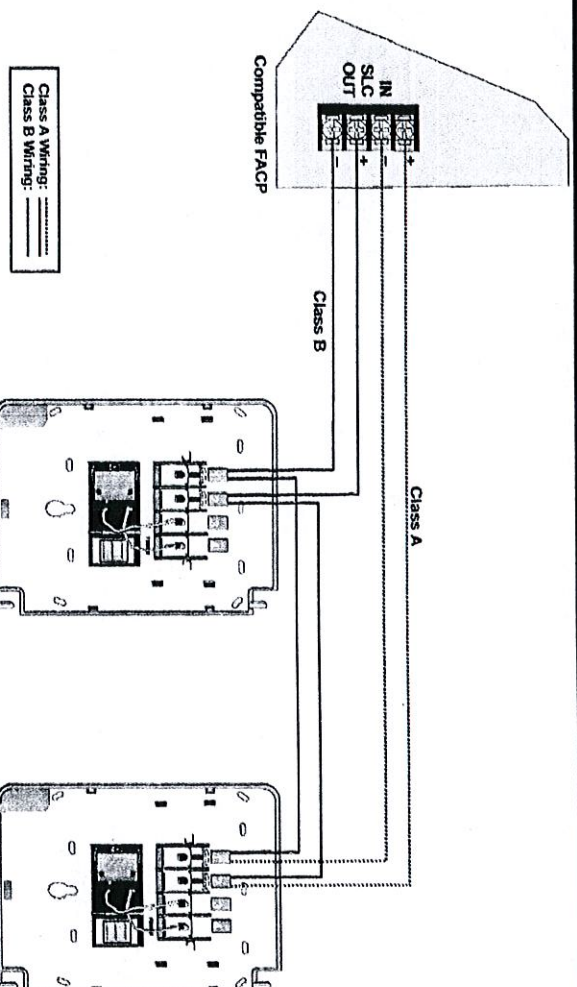


# Model SK-Pull-DA and SK-Pull-SA

## 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  $\mu$ 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



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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.

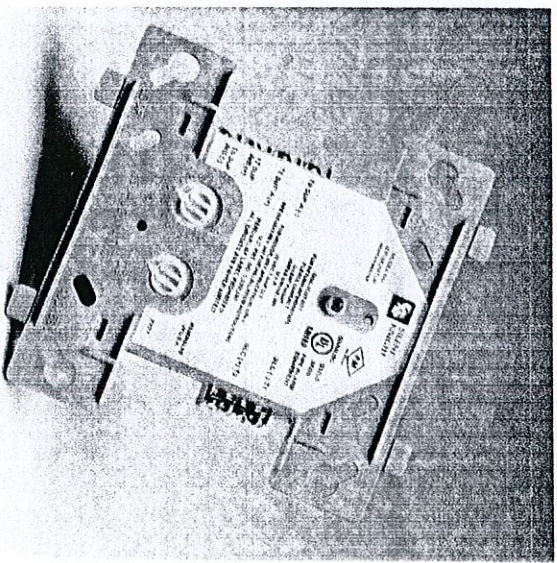
The SK-Monitor supports Class A supervised or Class B supervised wiring to the load device. Conventional 4-wire smoke detectors can be monitored for alarm and trouble conditions.

### 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® PN SMB500) is available from Silent Knight.



### SK-Monitor

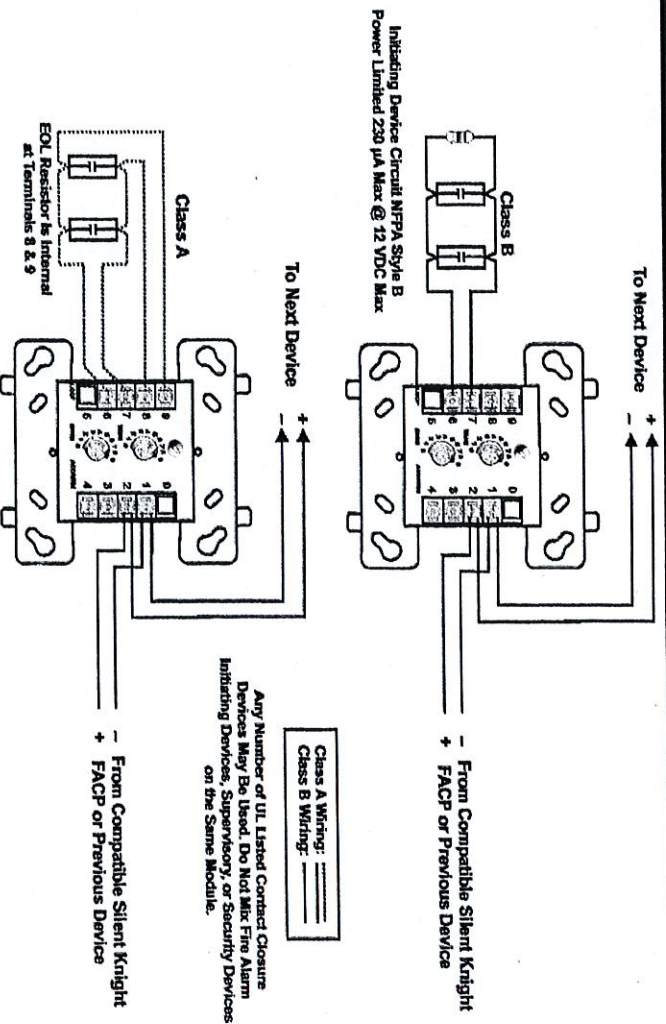
#### Compatibility

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

5700  
5808  
5820XL



# 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



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## B501 and B210LP



### Intelligent Detector Bases

B501 and B210LP plug in detector mounting bases, are just two of the variety of ways to install detectors in any application.

For more information about the IntellikNight system, or to locate you nearest source, please call 1-800-328-0103 or in Connecticut, call (203) 484-7161.



### Description

The B210LP 6" Mounting Base and the B501 4" Mounting Base are plug in detector bases for SK style detectors intended for use with Silent Knight IntellikNight series fire alarm control panels (FACPs). The B210LP and B501 have screw terminals for power (+) and (-) and remote annunciator connections. Communication takes place over the power (+) and (-) lines.

### Features

- Plug-in mounting provides ease of installation
- Tamper-proof feature prevents removal of the detector without the use of a tool
- Range of mounting options to meet any application
- B501 allows for aesthetically pleasing installation with Recessed Mounting Kit (PN RMK400)
- Rotary address switches for fast installation
- Optional remote LED annunciator (PN RA100Z)
- SEMS screws, 12-22 AWG
- UL Listed

### Installation

The B210LP and B501 can be mounted on a variety of junction boxes as shown in the tables below.

#### U.S. Junction box Selection Guide\*

Model	Single Gang	3.5" Oct	4" Oct	4" Sq
B210LP	Yes	Yes	Yes	Yes
B501	No	Yes	No	No

#### Metric Junction box Selection Guide\*

Model	50 mm	60 mm	70 mm	75 mm
B210LP	No	No	No	No
B501	Yes	Yes	Yes	No



B210LP Base



B501 Base

### Compatibility

The B210LP and B501 are compatible with the following SK-series detectors:

- SK-Photo Photoelectric Smoke Detector and SK-Photo-T Photoelectric Smoke Detector with Thermal
- SK-Accclimate 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 B210LP and B501 are compatible with the following IntellikNight FACPs:

5700  
5808  
5820XL

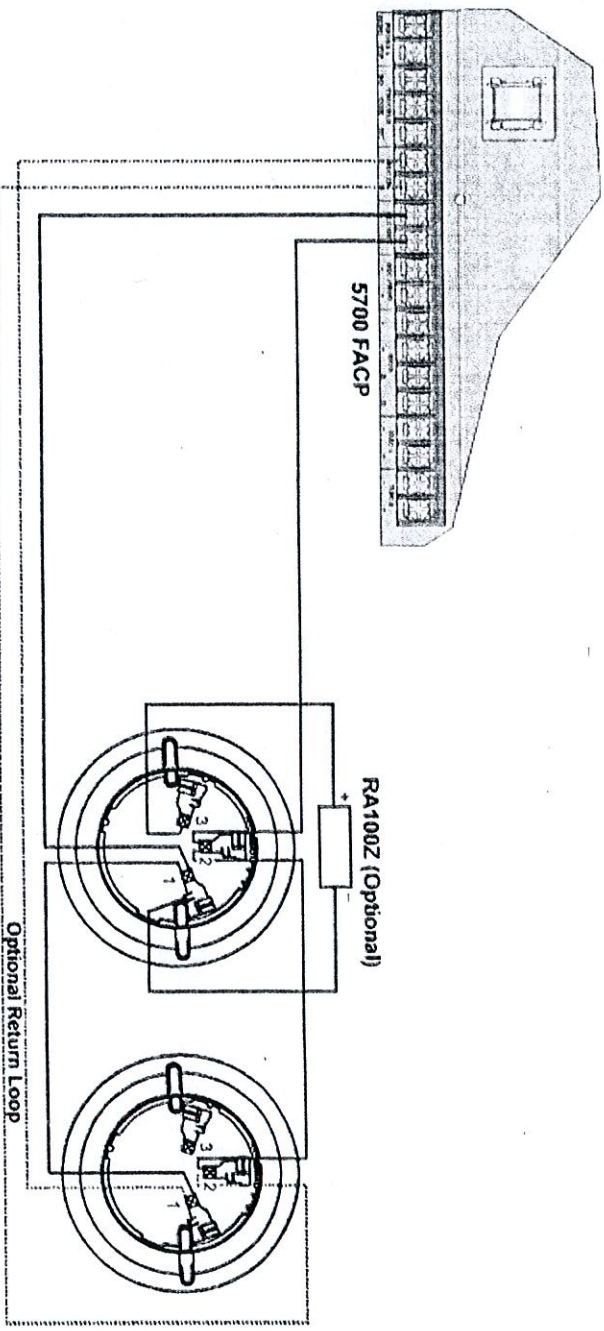


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# Model B501 and B210LP



B501 and B210LP Mounting Bases

## Specifications

### Physical

B210LP Diameter: 6.1" (155 mm)

B501 Diameter: 4.1" (104 mm)

### Electrical

Wire Gauge: 18-12

### Terminals:

Terminal 1: Power (-) and Optional RA100Z

Terminal 2: Power (+)

Terminal 3: Optional RA100Z Remote Annunciator

### Environmental

Operating Temperature: 32°F – 150°F (0°C – 66°C)

Humidity: 10% – 93% non-condensing

## Ordering Information

B210LP

6" Mounting Base

B501

4" Mounting Base

## Accessories

RA100Z  
RMK400

Remote LED Annunciator.  
Recessed Mounting Kit. Provides low profile  
for use with B501.

XR2B

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

M02-04-01

Detector 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.



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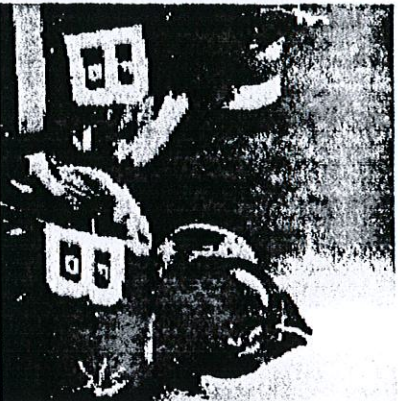
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# 5496 Intelligent Power Module



## A dynamic combination of power and intelligence for your notification expansion needs.



Wheelock® — what you need to drive power-hungry components like ADA notification appliances. The 5496's advanced microprocessor design is years ahead of the competition. Its switch mode power supply design is up to 50% more efficient than competitive linear mode power supplies.

For the most sophisticated and cost-effective notification power supply available, you need Model 5496. Call Silent Knight today for more information at 1-800-446-6444.

### Model 5496

#### Intelligent Power Module

The model 5496 is a 6 amp notification power expander that provides its own AC power connection, battery charging circuit, and backup battery for use with fire and security controls such as the Intelliknight Model 5808 Fire Control /Communicator. The 5496 is the cost-effective solution for powering notification appliances required by the Americans with Disabilities Act (ADA). The 5496 has built-in ANSI cadence pattern, which can upgrade older control panels that lack cadence capability. The Output circuits can be programmed as Notification Appliance Circuits, or as Auxiliary Power Circuits, or as Auxiliary Power (configurable for, constant, resettable, or door holder power).

#### Features

- UL Listed for 6 amps of notification power
- Power supply's advanced switch mode design reduces damaging heat and manages power up to 50% more efficiently than other systems
- Built-in synchronization for appliances from AMSECO, Gentex®, Faraday, System Sensor®, and Wheelock®
- 24 VDC filtered output voltage
- Four power-limited notification outputs; 2 Class A or 4 Class B, or 1 Class A and 2 Class B
- NACs are programmable as Notification Appliance Circuits, or as auxiliary power to be used as constant, resettable, or door holder power

- 3 amps per output circuit
- Ground fault detector
- Communicates to the FACP via 4-wire SBUS (wire runs up to 6000 ft)
- AC loss delay option shuts off power to non-essential high-current accessories like magnetic door holders
- Lightweight design adds to ease of installation and reduces shipping costs
- UL 864, 1481 & 1971 listed
- ANSI Cadence pattern output capability built-in

#### Specifications

AC Input 120 VAC at 2.7 A

Output 24 VDC at 6 amps

Current Standby

Alarm 40 mA  
160 mA

Notification/Aux. Power circuits:

4

Output configuration:

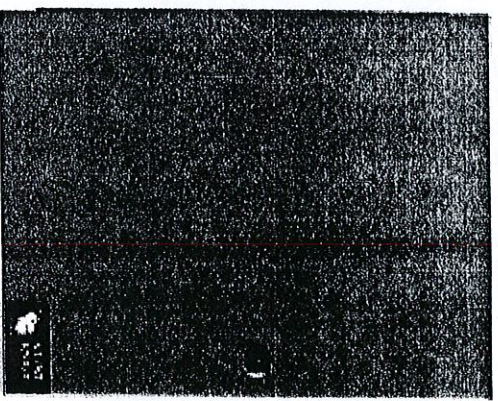
2 Class A (Style Z)  
4 Class B (Style Y)  
(1 Class A & 2 Class B)

Amps per output circuit: 3.0 (6.0 amps total)

Notification circuit output: 20.4 to 27.3 VDC @ 3.0 amps each, 4.7 k $\Omega$  EOL resistor required on each Class B circuit

Battery charging capacity:

35.0 AH



### Model 5496 Intelligent Power Module

Ambient Temp.: 32° to 120° F  
0° to 49° C

Dimensions: 12.25" W x 16" H x 3" D (30.88 cm W x 40.64 cm H x 7.62 D cm)

Approvals: UL  
CSFM

MEA 429-92-E vol. XIV



SILENT KNIGHT

by Honeywell



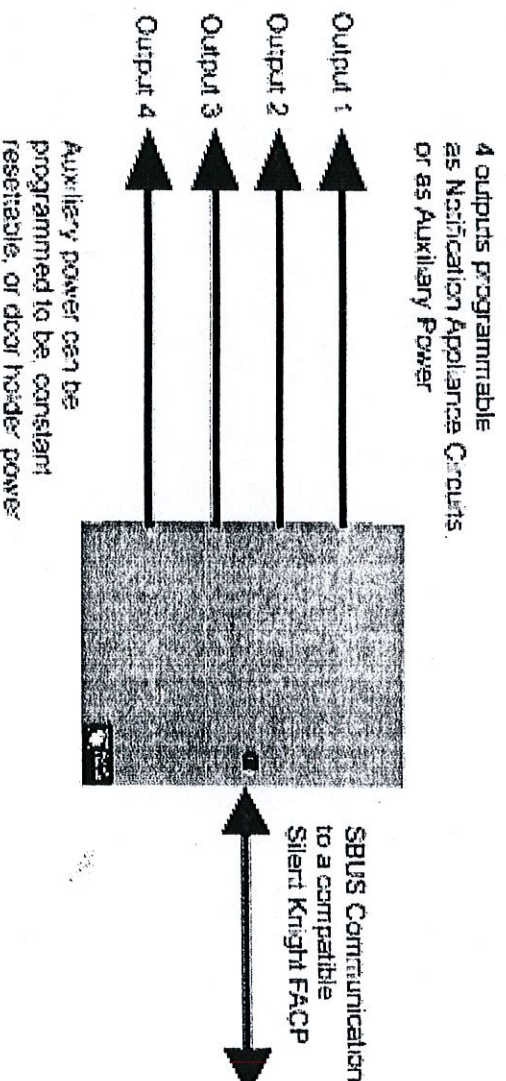
# Firepower 5496 Distributed Power Module



## Engineering Specifications

The contractor shall supply a power module compatible with the Silent Knight FACP. The power module must have 6.0 amps of output power. The power module shall connect to the main FACP via an RS 485 system bus (SBUS). The Outputs shall be programmable as Notification Appliance Circuits, or as Auxiliary Power (configurable for, constant, resettable, or door holder power). The power module shall have four separate outputs.

The power module RS 485 bus shall be optically isolated providing ground loop isolation and transient protection.



## Compatible FACP's

IntelliKnight 5700  
IntelliKnight 5808  
IntelliKnight 5820XL



**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 7550 Meridian Circle Suite 100, Maple Grove, Mn 55369-4927.

Phone: (800) 328-0103, Fax: (763) 493-6475.

**MADE IN AMERICA**

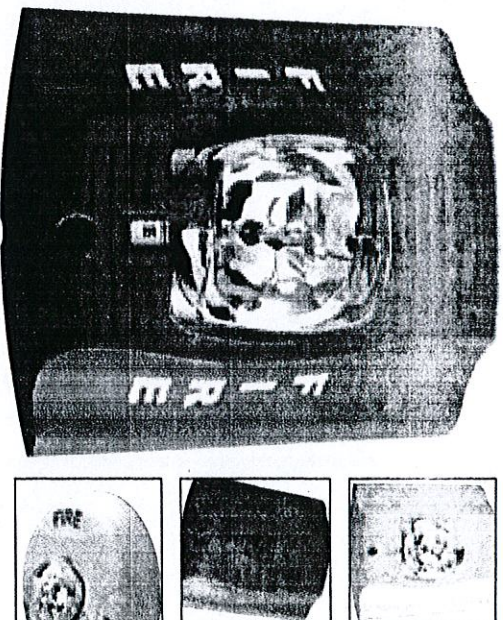
FORM# 350387 Rev C, 9/07  
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## Selectable-Output Horns, Strobes, and Horn Strobes

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



**SPECTRAlert®**  
A BRYAN CO. PRODUCT

### 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

SIGNAL INC.



54011 (Horns, Horn Strobes, Horns)  
55512 (Strobes)



30233/2

**MEA**  
approved

ML452-06-L



7125-1653 185 (Indoor strobes)  
7125-1653 185 (Horn Strobes,  
Came Strobes)  
7135-1653 189 (Horns, Chimes)



## SpectrAlert Advance 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. Strokes 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" x 4½" x 2½"-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 (BBS-C-2, BBSCW-2)	7.1" diameter x 2.2" high (180 mm diameter x 57 mm high)
Wall-Mount Trim Ring Dimensions (solid 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 (solid 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. Current Draw (mA RMS)

	8-17.5 Volts			16-33 Volts		
	Candela	DC	FWR	DC	FWR	
Standard	15	123	128	66	71	
Candela Range	15/75	147	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)

	8-17.5 Volts			16-33 Volts		
	Sound Pattern	dB	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)

	8-17.5 Volts			16-33 Volts					
DC Input	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
FWR Input									
Temporal High	136	155	88	97	112	168	190	210	218
Temporal Medium	129	152	78	88	103	160	184	202	206
Temporal Low	129	151	76	86	101	160	184	194	201
Non-Temporal High	142	161	103	112	126	181	203	221	229
Non-Temporal Medium	134	155	85	95	110	166	189	208	216
Non-Temporal Low	132	154	80	90	105	161	184	202	211
UL Max. Current Draw (mA RMS), 2-Wire Horn Strobe, High Candela Range (135-185 cd)									
DC Input	16-33 Volts			16-33 Volts					
	135	150	177	185	FWR Input	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

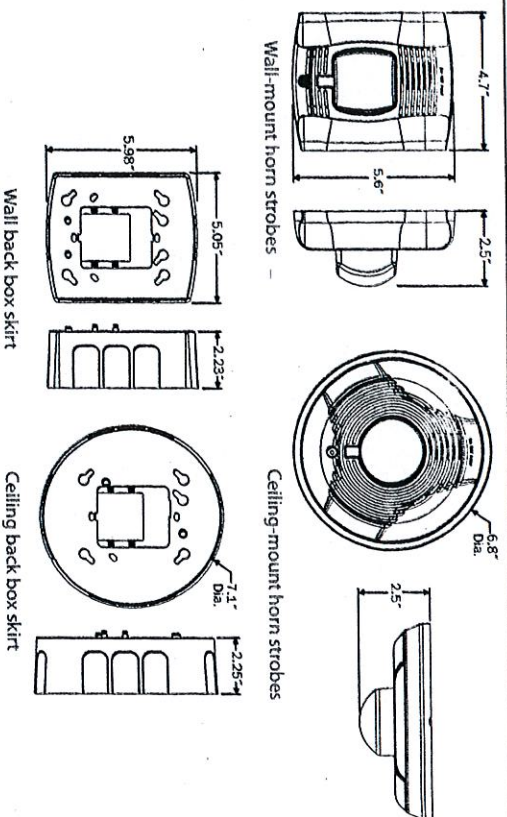
Horn and Horn Strobe Output (dBA)

Switch	Sound Pattern	dB	8-17.5 Volts		16-33 Volts		24-Volt Nominal	
			DC	FWR	DC	FWR	DC	FWR
1	Temporal	High	78	78	84	84	88	88
2	Temporal	Medium	74	74	80	80	86	86
3	Temporal	Low	71	73	76	76	83	80
4	Non-Temporal	High	82	82	88	88	93	92
5	Non-Temporal	Medium	78	78	85	85	90	90
6	Non-Temporal	Low	75	75	81	81	88	84
7 <sup>†</sup>	Coded	High	82	82	88	88	93	92
8 <sup>†</sup>	Coded	Medium	78	78	85	85	90	90
9 <sup>†</sup>	Coded	Low	75	75	81	81	88	85

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



## SpectraAlert Advance Dimensions



## SpectraAlert Advance Ordering Information

Model	Description	Model	Description
<b>Wall Horn Strobes</b>		<b>Ceiling Strobes</b>	
P2R*†	2-Wire Horn Strobe, Standard cd†, Red	SCR	Strobe, Standard cd, Red
P2RH*†	2-Wire Horn Strobe, High cd, Red	SCRH	Strobe, High cd, Red
P2W*	2-Wire Horn Strobe, Standard cd, White	SCW*	Strobe, Standard cd, White
P2WH*†	2-Wire Horn Strobe, High cd, White	SCWH	Strobe, High cd, White
P4R*	4-Wire Horn Strobe, Standard cd, Red	<b>Horns</b>	
P4RH	4-Wire Horn Strobe, High cd, Red	HR	Horn, Red
P4W	4-Wire Horn Strobe, Standard cd, White	HW	Horn, White
<b>Wall Strobes</b>		<b>Accessories</b>	
SRH*†	Strobe, Standard cd, Red	BBS-2	Back Box Skirt, Wall, Red
SRH*†	Strobe, High cd, Red	BBSW-2	Back Box Skirt, Wall, White
SW*	Strobe, Standard cd, White	BBS-2	Back Box Skirt, Ceiling, Red
SWH*†	Strobe, High cd, White	BBSW-2	Back Box Skirt, Ceiling, White
<b>Ceiling Horn Strobes</b>		TRH-4H5	Trim Ring, Wall, Red
PC2R*	2-Wire Horn Strobe, Standard cd, Red	TRW-4H5	Trim Ring, Wall, White
PC2RH	2-Wire Horn Strobe, High cd, Red	TRC-4H5	Trim Ring, Ceiling, Red
PC2W*†	2-Wire Horn Strobe, Standard cd, White	TRCW-4H5	Trim Ring, Ceiling, 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		

### 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.



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