Templeview Apts

# 3.6.1.1 Current Draw Worksheet for SK SLC Devices

Use Table 3-2 to determine current requirements during alarm/battery standby operation when SK SLC devices are installed. You can install up to 99 SK detectors *and* 99 SK modules. (Copy the page if additional space is required.)

Table 3-2: Current Draw Worksheet for SK Devices

Device	Number of Devices	С	urrent per Devid	Standby Current	Alarm – Current		
For each device use this formula:	This colum	n X T	his column	= Curre	nt per number of	devices.	
Fire Panel (Current draw from	1	Standby:		170 mA	170 mA		
battery)		Alarm:		325 mA		325 m	
Addressable SLC Detectors							
SK-Photo	i (99 max.) <sup>1</sup>				0.3 mA	0.3 m/	
SK-Photo-T					mA	m/	
IDP-PhotoR		Standby/A	larm:	0.30 mA			
SK-Ion					mA	m/	
SK-Heat					mA	m/	
SK-Heat-HT					mA	m/	
		SLC	Standby/Alarm:	2 mA	4		
SK-Beam (without integral test)		Aux. Pwr	Standby:	2 mA	mA		
		Aux. Pwr	Alarm:	8.5 mA		m/	
		SLC	Standby/Alarm:	2 mA			
SK-Beam-T (with integral test) <sup>4</sup>		Aux. Pwr	Standby:	2 mA	mA		
		Aux. PWF	Alarm:	8.5 mA		m/	
SK-Duct (includes PhotoR) <sup>5</sup>		SLC	Standby/Alarm:	0.27mA			
SK-Acclimate	-	G. 11 (1)		0.0	mA	m/	
SK-Heat-ROR		Standby/A	larm:	0.3 mA	mA	m/	

# 11 00197 & 11 00200

Temple View Apts, 12 &18 Plex Fire Alarm Plans

## JOB SITE COPY

\*These plans are to remain on the job and be available upon request during inspections.

Table 3-2: Current Draw Worksheet for SK Devices

Device	Number of Devices	С	urrent per Devi	Standby Current	Alarm Current	
Addressable SLC Devices						
SK-Monitor	6				Z.25 mA	2.25 mA
SK-Minimon	P	Standby/Alarm: 0.375 m		0.375 mA	4.88 mA	4.88 mA
SK-Pull-SA/SK-Pull-DA	13	3			mA	mA
SK-Monitor-2	, ,	Standby/A	larm:	0.75 mA	mA	mA
SK-Mon-10		Standby/A	larm:	3.5 mA	mA	mA
SK-Relay-6		Standby/A	larm:	1.45 mA	mA	mA
		OI O	Standby:	0.375 mA	mA	
av a		SLC	Alarm:	0.37 5mA		mA
SK-Control		Aux.	Standby:	1.7 mA	mA	
		Power	Alarm:	7 mA		mA
	(99	or o	Standby:	2.25 mA	mA	
av. a	max.) <sup>1</sup>	SLC	Alarm:	2.2 5 mA		mA
SK-Control-6			Standby:	8 mA	mA	
		Aux. Pwr	Alarm:	20 mA	walled walled	mA
SK-Relay		Standby/A	larm:	0.255 mA	mA	mA
SK-Relay-6		Standby/A	larm:	1.45 mA	mA	mA
SK-Zone SK-Zone-6	1	Aux Pwr	Standby:	12 mA	mA	
	10		Alarm:	90 mA		mA
		SLC	Standby/Alarm:	0.27 mA	mA	mA
		Aux Pwr	Standby:	50 mA	mA	
			Alarm:	270 mA		mA
		SLC	Standby/Alarm:	2 mA	mA	mA
14		Aux Pwr	Standby:	1 mA	mA	
B200SR Sounder Base		Auxiwi	Alarm:	15 mÅ		mA
	(99 max.)	SLC	Alarm:	0.7 mA		mA
B224RB Relay Base	(99 max.)	Standby/Alarm:		0.5 mA	mA	mA
RTS151/151 KEY		Alarm:		7.5 mA		mA
RA100Z		Alarm:		10 mA	1 207	mA
SK-Iso (Isolator Module)	(100	Standby/A		0.45 mA	mA	mA
B224BI Isolator Base	max.)	Standby/A	larm:	0.5 mA		
Accessories Modules						
5860 Remote Fire Alarm	(8 max)	Standby:		20 mA	mA	
Annunciator		Alarm:		25 mA		mA
5824 Serial / Parallel Module	(2 max.)	Standby/A		45 mA	mA	mA
5496 Notification Power Expander	(8 max.)	Standby/A		10 mA	mA	mA
5895XL Intelligent Power expander		Standby/A	larm:	10 mA	mA	mA
5865-4 LED Annunciator		Standby:		35 mA	mA	
(with reset and silence switches)		Alarm:		145 mA	. 7	mA
5865-3 LED Annunciator	(8 max.)	Standby:		35 mA	mA	
C DDD I MINIONION	(o max.)	Alarm:		145 mA		mA
5880 LED I/O Module		Standby:		35 mA	mA	
		Alarm:		200 mA		mA

Table 3-2: Current Draw Worksheet for SK Devices

	Device	Number of Devices	Current	per Device	Standby Current	Alarm Current
			Standby:	0 mA	mA	
	5883 Relay Interface	(32 max.)	Alarm:	220 mA (22 mA per relay)		mA
Α			T	otal System Current	178	333
	Auxiliary Devices <sup>2</sup>		Refer to d	levices manual for curr	ent rating.	
			Alarm/Standby:	mA	mA	mA
			Alarm/Standby:	mA	mA	mA
			Alarm/Standby:	mA	mA	mA
			Alarm/Standby:	mA	mA	mA
В			Auxili	ary Devices Current		
	Notification Appliance Circuits		Refer to d	ent rating.		
	PZRK	24	Alarm:	200, mA		4800 mA
			Alarm:	mA		mA
			Alarm:	mA	,	mA
			Alarm:	mA		mA
C			Notification	Appliances Current		4800 mA
D 🐝	Total current ratings of all devices i	n system (lin	e A + line B + C)		178mA	5133 mA
E	Total current ratings converted to a	0.178 A	5.13 A			
F	Number of standby hours (24 or 60	24 H				
G	Multiply lines E and F.	4.27 AH				
H	Alarm sounding period in hours. (F	or example, 5	5  minutes = .0833  ho	ours)		0.0833 H
I	Multiply lines E and H.			Total alarm AH		0,43 AH
J	Add lines G and I. <sup>3</sup>			Total ampere hours required	(4.7)AH	

- 1. Total does not include isolator devices or accessory bases.
- 2. If using door holders, you do not need to consider door holder current for alarm/battery standby, because power is removed during that time. However, during normal operation, door holders draw current and must be included in the 6.0A total current that can be drawn from the panel.
- 3. Use next size battery with capacity greater than required.
- 4. SK-Beam-T draws a maximum of 500mA from Auxiliary power only when the test feature is used. This should be considered when determining auxiliary power capacity but not calculated into current requirements for day to day operation.
- 5. The SK-Duct housing contains a vacant mount for a SK-Relay (sold separately). Current draw for the SK-Relay is calculated by increasing the SK-Relay row of the calculation sheet by one for each SK-Relay used with a SK-Duct.



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.

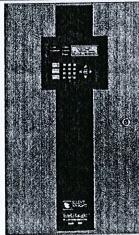
For more information about the IntelliKnight system, or to locate your nearest source, please call 1-800-328-0103.

### 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<sup>®</sup>, Faraday, System Sensor<sup>®</sup>, and Wheelock<sup>®</sup>.
- 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<sup>®</sup> viewing window to protect annunciator.
- Acknowledge function allows operator to keep track of event status.

#### Installation

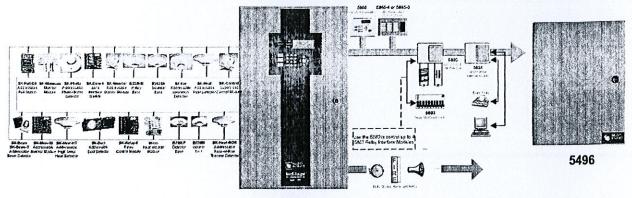
The 5800 can be surface or flush mounted.

### 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

### **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,powerlimited

Battery Charging Capacity: 7.0-35

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

#### 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

Type of Jack: RJ31X (two required)

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

# **Intelligent Pull Stations**

# by Honeywell

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<sup>®</sup>
- · 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

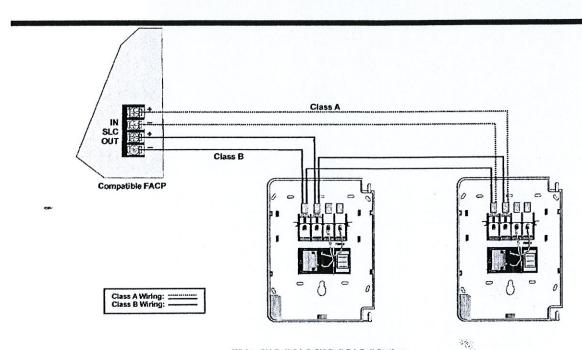
The SK-Pull-SA and SK-Pull-DA are compatible with the following IntelliKnight FACP's:

# 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<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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# **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.

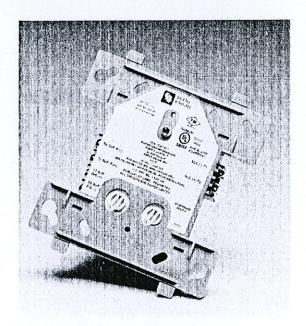
The SK-Monitor supports Class A supervised or Class B supervised wiring to the load device. Conventional 4-wire smoke detectors can be monitored for alarm and trouble conditions.

#### **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** 

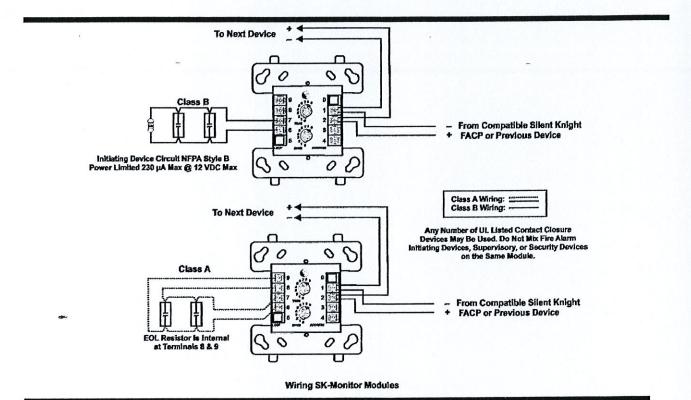
Compatibility

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

5700 5808 5820XL

# **Model SK-Monitor**

# Intelligent Monitor Module



## **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 μA

Standby Current:

400  $\mu A$  max @ 24 VDC (one communication every 5 sec with 47K FOI )

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 Ω

Initiating Device Circuit Wiring Resistance: 1,500 Ω 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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# 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 detectör'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

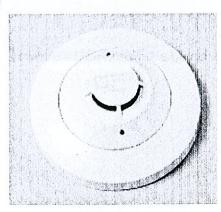
Alarm Current: 6.5 mA @ 24 VDC max (with LED on)

### **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



# 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.

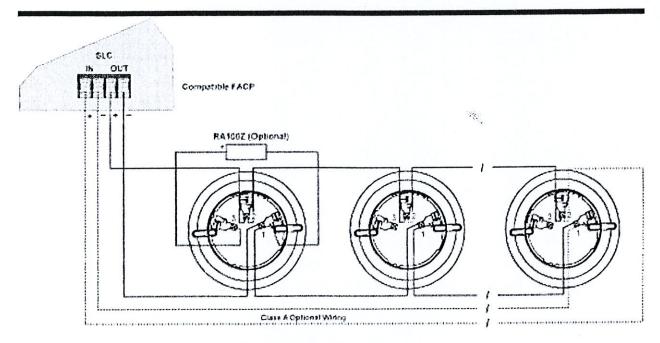
The base shall permit direct interchange with SK-Photo or SK-Photo-T. Base shall be the appropriate twist-lock base part number B210LP (included).

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.



Wining SK-Senes Detector Mounting Dases



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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 intall 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-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 B210LP and B501 are compatible with the following IntelliKnight FACP's:

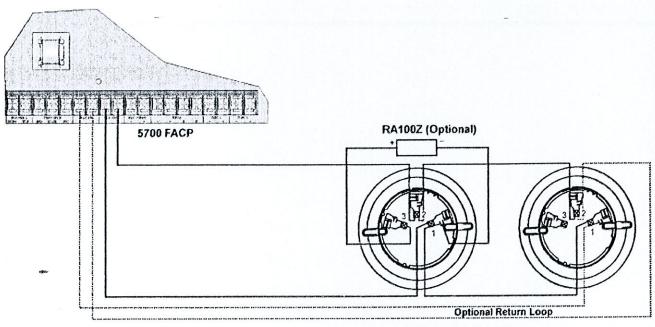
5700 5808 5820XL



by Honeywell

# Model B501 and B210LP





B501 and B210LP Mounting Bases

Specifications	Ordering Information				
Physical B210LP Diameter: 6.1" (155 mm)	B210LP B501	6" Mounting Base 4" Mounting Base			
B501 Diameter: 4.1" (104 mm)	Accessories	•			
Electrical Wire Gauge: 18–12	RA100Z RMK400	Remote LED Annunciator.  Recessed Mounting Kit. Provides low profile for use with B501.			
Terminals: Terminal 1: Power (–) and Optional RA100Z Terminal 2: Power (+)	XR2B	Detector Removal Tool. A removal and replacement tool for SK plug-in detectors. Includes the T55-127-000.			
Terminal 3: Optional RA100Z Remote Annunciator	M02-04-01 M02-09-00	Detector Test Magnet. Test Magnet with Telescoping Handle.			
Environmental  Operating Temperature: 32°F – 150°F (0°C – 66°C)	XP-4	Extension Pole for XR2B. Extends from 5 – 15 ft.			
Humidity: 10% – 93% non-condensing	T55-127-000 BCK-200B	Detector Removal Head. Black Detector Kit. For SK series detectors.			



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

### **MADE IN AMERICA**

FORM# 350995 Rev A ECN 09-520 © 2009 Honeywell International Inc.



# 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.











### **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**







MEA452-05-E



chime strobes) 7135-1653 189 (horns, chimes)

## **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 × 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  $4\frac{11}{16} \times 2\frac{1}{16}$ -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.

2200 12000 (000 1000)
32°F to 120°F (0°C to 49°C)
10 to 93% non-condensing
1 flash per second
Regulated 12 DC/FWR or regulated 24 DC/FWR <sup>1</sup>
8 to 17.5 V (12 V nominal) or 16 to 33 V (24 V nominal)
12 to 18 AWG
6.8" diameter x 2.5" high (173 mm diameter x 64 mm high)
5.6"L × 4.7"W × 2.5"D (142 mm L × 119 mm W × 64 mm D)
5.6"L × 4.7"W × 1.3"D (142 mm L × 119 mm W × 33 mm D)
5.9°L × 5.0°W × 2.2°D (151 mm L × 128 mm W × 56 mm D)
7.1" diameter $\times$ 2.2" high (180 mm diameter $\times$ 57 mm high)
5.7"L×4.8"W×0.35"D (145 mm L×122 mm W×9 mm D)
$6.9$ " diameter $\times 0.35$ " high (175 mm diameter $\times 9$ 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.

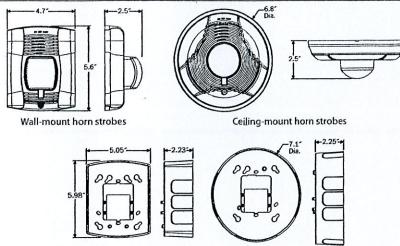
# **UL Current Draw Data**

	8-17.5 Volts 16-33 Volts		ETATORIS OF THE EXCELLENCE A CONTROL THOSE AND AND A PART OF THE PROPERTY OF T		8-17.5 Voits		16-33 Volts				
	Candela	DC	FWR	DC	FWR	Sound Pattern	dB	DC	FWR	DC	FWR
Standard	15	123	128	66	71	Temporal	High	57	55	69	75
Candela Range	15/75	142	148	77	81	Temporal	Medium		49	58	69
	30	NA	NA	94	96	Temporal	Low	38	44	44	48
	75	NA	NA	158	153	Non-temporal	High	57	56	69	75
_	95	NA	NA	181	176	Non-temporal	Medium		50	60	69
	110	NA	NA	202	195	Non-temporal	Low	41	44	50	50
	115	NA	NA NA	210	205	Coded	High	57	55	69	75
High	135	NA	NA	228	207	Coded	Medium		51	56	69
Candela Range	150	NA NA	NA NA	246	220	Coded	Low	40	46	52	50
3-	177	NA	NA	281	251	Coocu	LOW				
	185	NA	NA	286	258						
UL Max. Current						and of series and		THIFT			
	and the second	8-17.5	U. IV. SERVICES IN CHEST AND STORE	E-1-4-APRICATION-VALUE	3 Volts	had been all the second		andresia di	A calculate at the As		emphisosopiu
DC Input		15	15/75	15	15/3	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	20		210
Temporal Low	<u>'</u>	132	143	66	77	93	154	179	198		207
Non-Temporal Hic	ıh.	141	152	91	100		176	201	22		229
Non-Temporal Me		133	145	75	85	102	163	187	20		216
Non-Temporal Lov		131	144	68	79	96	156	182	20		210
FWR Input	/V	151	177			90	130	102			
Temporal High		136	155	88	97	112	168	190	210	)	218
Temporal Medium	1	129	152	78	88	103	160	184	20:		206
Temporal Low		129	151	76	86	101	160	184	19-		201
Non-Temporal Hic	ıh	142	161	103	112		181	203	22		229
Non-Temporal Me		134	155	85	95	110	166	189	20		216
Non-Temporal Lov		132	154	80	90	105	161	184	20		211
UMax Curren	CONTRACTOR PROPERTY AND ADDRESS OF THE PARTY A	RMS EV	CHOCK PRODUCT OF THE CONTROL OF THE	he dinh e	andelalRand	e 185-185 ed)		TENT			
e i selektivasi teri oderioki akti akti		16-33 Vo	international property	the distriction	and the same of the same	And all considerates about 1884		16-33 Vol	5		AL M BUILD SHOULD
DC Input		135	150	177	185	- FWR Input		135	150	177	185
Temporal High		245	259	290	297	Temporal High		215	231	258	265
Temporal Medium	 1	235	253	288	297	Temporal Medium		209	224	250	258
Temporal Low		232	251	282	292	Temporal Low		207	221	248	256
Non-Temporal Hic	ıh	255	270	303	309	Non-Temporal High	h	233	248	275	281
Non-Temporal Me		242	259	293	299	Non-Temporal Med		219	232	262	267
Non-Temporal Lov		238	254	291	295	Non-Temporal Lov		214	229	256	262

# **Horn Tones and Sound Output Data**

			8-17	7.5	16-3	33	24-V	olt Nomi	nal	
Switch			Volts		Voits		Reverberant		Anechoic	
Position	Sound Pattern	dB	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

# **SpectrAlert Advance Dimensions**



Wall back box skirt

Ceiling back box skirt

### **SpectrAlert Advance Ordering Information**

Model	Description	Model	Description
	n Strobes	Ceiling St	robes
P2R*1	2-Wire Horn Strobe, Standard cd <sup>‡</sup> , 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	Horns	
P4RH	4-Wire Horn Strobe, High cd, Red	HR	Horn, Red
P4W	4-Wire Horn Strobe, Standard cd, White	HW	Horn, White
Wall Stro	bes	Accessori	es
SR*1	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	BBSC-2	Back Box Skirt, Ceiling, Red
SWH*	Strobe, High cd, White	BBSCW-2	Back Box Skirt, Ceiling, White
Ceiling H	orn Strobes	TR-HS	Trim Ring, Wall, Red
PC2R*	2-Wire Horn Strobe, Standard cd, Red	TRW-HS	Trim Ring, Wall White
PC2RH	2-Wire Horn Strobe, High cd, Red	TRC-HS	Trim Ring, Ceiling, Red
PC2W*†	2-Wire Horn Strobe, Standard cd, White	TRCW-HS	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.

