Form # P 04

# DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

# **CITY OF PORTLAND**

Please Read
Application And
Notes, If Any,
Attached

BU

Notes, If Any, Attached		PEF	RMIT	Permit N	umber: 100033
This is to certify that	SCA SERVICES OF M	MAINE /Protection			
has permission to	Install a fire alarm				
AT 2000 FOREST A	VE			324 B012001	
-	ns of the Statutes n, maintenance ar t.	nd use buildir		•	of Portland regulating e application on file in
	orks for street line e of work requires		spectio nust ermissid rocu g or pa hered ed-in. IS REQUIRED.	red A certification of is	ate of occupancy must be by owner before this build- t thereof is occupied.
Health Dept.  Appeal Board  Other	TIMENT Name CITY OF	-9 2010 PORTLAND	MOVING THI		Source 2/4/10 ding & Inspection Services

Say Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716	City of Portland, Maine - Bu	ilding or Use F	ermit Ap	plication	Perm	iit No:	Issue Date:		CBL:	
Countractor Name:   Countractor Name:   Proposed Exercises of Maine Inc.   Proposed Exercises   Proposed Exercis						10-0033	<u> </u>		324 B01	2001
Contractor Name:   Contractor Name:   Protection One	Location of Construction:					Address:			Phone:	
Contractor Address:   Phone   Protection One   Io Manuel Drive Portland   2073475316	2000 FOREST AVE	SCA SERVICE	ES OF MAI	NE INC	PO BOX 1450					
Permit Type:   Fremit Type:   Fremit Type:   Fremit Type:   Fremit Type:   Fremit Type:   Fremit Type:   Sp30.00   S6,500.00	Business Name: Contractor Name:				Contrac	tor Address:				l
Fire Alarm System	Protection One		;		10 Ma	nuel Drive	Portland		207347531	16
Permit Takes By:  1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.  2. Building permits do not include plumbing, septic or electrical work.  3. Building permits do not include plumbing, permit and stop all work.  3. Building permits do not include plumbing, permit and stop all work.  4. Building permits do not include plumbing, permit and stop all work.  5. Building permits do not melude plumbing, septic or electrical work.  5. Building permits do not melude plumbing, septic or electrical work.  5. Building permits do not melude plumbing, septic or electrical work.  6. Building permits do not melude plumbing, septic or electrical work.  7. Building permits do not melude plumbing, septic or electrical work.  8. Building permits do not melude plumbing, septic or electrical work.  8. Building permits do not melude plumbing, sundivision have been authorized by the owner of record of the named property.  6. Cost of Work:  7. Approved   Denied   Deni	Lessee/Buyer's Name	Phone:		·	Permit	Туре:			·	Zone:
Proposed Project Description: Install a fire alarm    Signature					Fire A	Alarm Syste	:m			1-111
Proposed Project Description: Install a fire alarm    Signature	Past Use:	Proposed Use:	-		Permit	Fee:	Cost of Work	: C	EO District:	] ,
Proposed Project Description: Install a fire alarm    Signature		I -	'Waste	:		\$90.00	\$6,50	0.00	5.	repla
Proposed Project Description: Install a fire alarm    PRDESTRICT ACTIVITY DISTRICT (P.A.b.)   Action:   Approved   Approv				re alarm	FIRE I	DEPT:	Approved	INSPECT	ΓΙΟΝ:	Pala
The proposed Project Description:   Install a fire alarm					WICO	nditions -	-	Use Grou	1p:(A/S	Type:[V III
Install a fire alarm    Signature   Signature   Signature   Signature   Signature   Signature   Signature   Signature   Date   D						. , i	_ Benie	_ ^	1	· >
Install a fire alarm    Signature   Signature   Signature   Signature   Signature   Signature   Signature   Signature   Date   D					, .	2/4/10		IDB	(-700)	5
PEDESTRIC ACTIVITIED ISTRICT (P.A.h.)    Action:	Proposed Project Description:			<del></del>	1	Ó	Λ . Λ		1 mg	مايلام
Action:   Approved   Approved w/Conditions   Denied	Install a fire alarm				Signatu	ıre: (44)	Laur	Signature		2 19 110
Permit Takea By:   Date Applied For:   Coning Approval					PEDES	TRIAN ACT	IVITIES DIST	RICT (P.	A.b.)	, ,
Permit Takea By:   Date Applied For:   Coning Approval					Action	: MADDIO	ved □ App	roved w/C	Conditions	Denied
Permit Taken By: Lidobson  Date Application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.  Building permits do not include plumbing, septic or electrical work.  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.  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 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 by the context all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.					1 100.00					
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septic or electrical work.  3. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work.    Site Plan	** · · ·	Applicant(s) from meeting applicable State and		Shoreland		☐ Variance			Not in Distric	t or Landmark
3. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work    Site Plan	<del>-</del> -	<del>-</del> -		☐ Wetland		Miscell	laneous		Does Not Rec	quire Review
False information may invalidate a building permit and stop all work    Site Plan										
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SIGNATURE OF APPLICANT ADDRESS DATE PHONE	shall have the authority to enter all	areas covered by s	such permit	at any reaso	mable h	nour to enfo	rce the prov	ision of	the code(s) ap	plicable to
SIGNATURE OF APPLICANT ADDRESS DATE THOUSE				ADDDE	28	<u></u>	DATI		PHO	)NE
	SIGNATURE OF APPLICANT			ADDKE	.J.O		DAII	_		

City of Portland, Maine - Bu		Permit No: 10-0033	Date Applied For: 01/12/2010	CBL: 324 B012001	
389 Congress Street, 04101 Tel:					Phone:
Location of Construction:	Owner Name:	1	Owner Address:		Phone:
2000 FOREST AVE	SCA SERVICES OF		PO BOX 1450		The same
Business Name:	Contractor Name:	](	Contractor Address:		Phone (207) 247 5216
	Protection One		10 Manuel Drive F	ortland	(207) 347-5316
Lessee/Buyer's Name	Phone:	Permit Type:			
	<u> </u>	j į	Fire Alarm Syster	<u> </u>	
Proposed Use:		Propose	d Project Description:		
Commercial - "Waste Management	" - Install a fire alarm	Install	a fire alarm		
		1			
		ļ			
			M	1	Pate: 01/12/2010
	Approved	Keviewer	Marge Schmuck	al Approval I	_
Note:					Ok to Issue: 🗹
<del></del>					
Dept: Building Status:	Approved with Conditio	ns Reviewer	Jeanine Bourke	Approval I	
Note:					Ok to Issue: 🗹
Separate permits are required f need to be submitted for appro			alarm or HVAC or	exhaust systems. Se	parate plans may
2) Fire Alarm systems shall be ins	stalled per Sec. 907 of the	IBC 2003			
Dept: Fire Status:	Approved with Condition	ns Reviewer	: Ben Wallace Jr.	Approval I	
Note:					Ok to Issue: 🗹
1) As-built fire alarm documents	shall be submitted in pdf t	o the Building In	spections Office up	on completion of jo	b.
2) The fire alarm system shall cor	nnly with the City of Port	and Standard for	· Cionalina Systems	for the Protection of	of Life and
Property. All fire alarm install					
3) Installation of a Fire Alarm sys	tem requires a Knox Box	to be installed pe	er city crdinance		
System acceptance and commin Department. Call 874-8703 to	_	ated with alarm a	nd suppression sys	tem contractors and	the Fire
5) All fire alarm records required "FIRE ALARM RECORDS".	by NFPA 72 should be st	ored in an approv	ved cabinet located	at the FACP and ke	yed alike, labeled

#### **BUILDING PERMIT INSPECTION PROCEDURES**

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

to schedule your inspections as agreed upon Permits expire in 6 months, if the project is not started or ceases for 6 months.

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

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

Order Release" will be incurred if the procedure is not followed as stated below.

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

X Final inspection required at completion of work.

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

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

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

Signature of Applicant/Designee

Date

2/4/8

Signature of Inspections Official

CBL: 324 B012001 Building Permit #: 10-0033

# TO ATLANTA

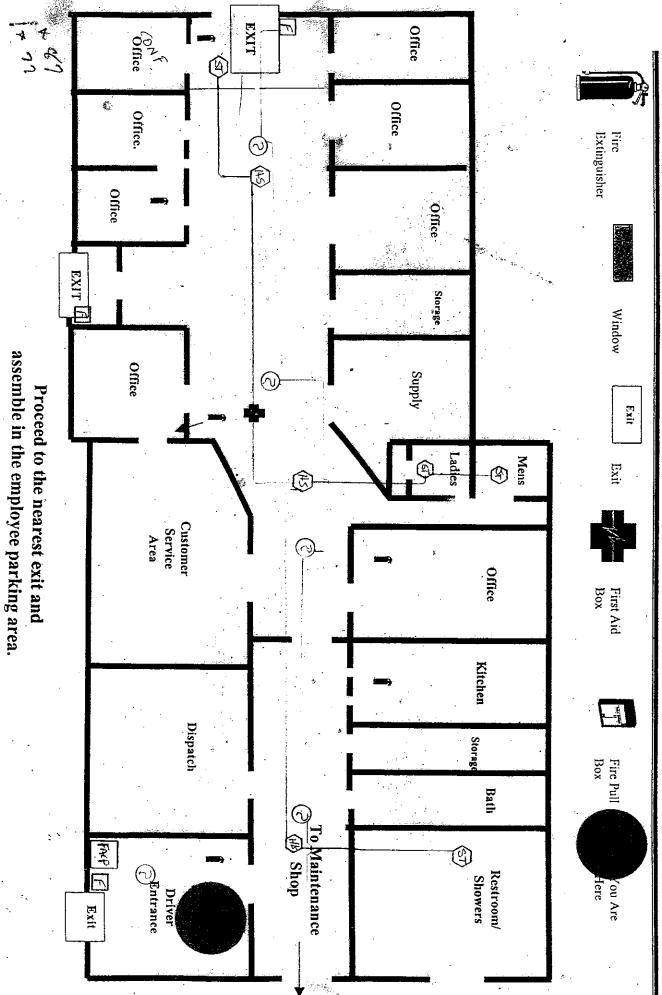
# **Fire Alarm Permit**

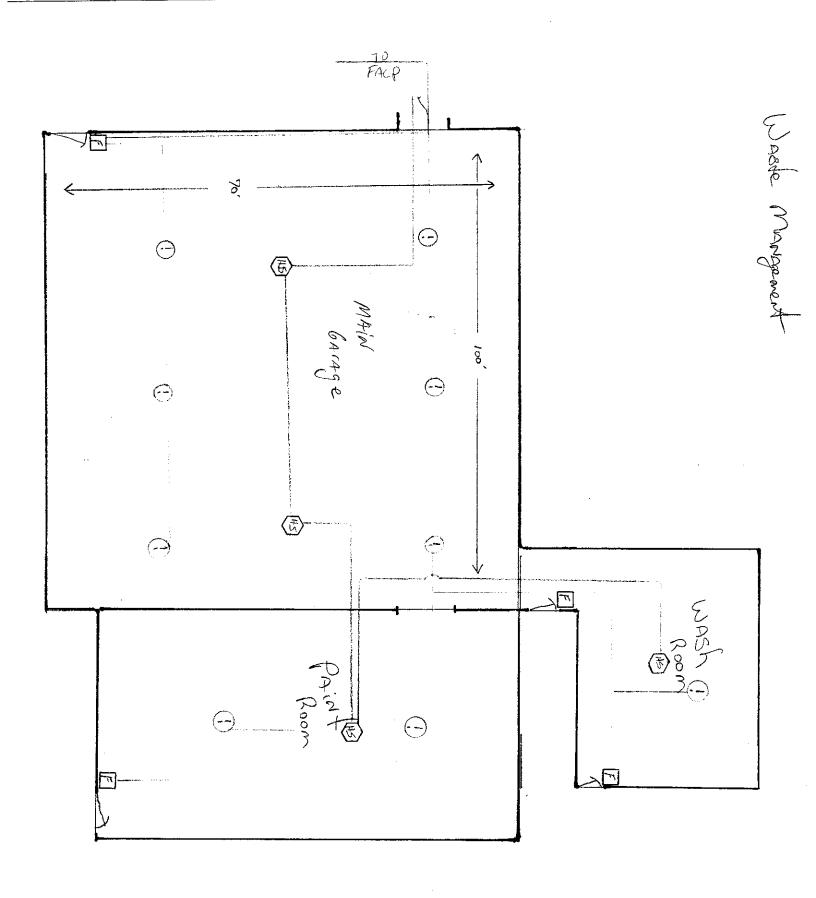
If you or the property owner owes real estate or property taxes or user charges on any property within the city, payment arrangements must be made before permits of any kind are accepted.

Installation address: 2000 Forest Ave	CBL: 324-B-12							
Exact location: (within structure) Inside Drivers door - front of building								
Type of occupancy(s) (NFPA & ICC): Business/Industrial								
Building owner: Waste Management								
Must be System Designer (point of contact): Kevin Inman								
Designer phone: 207-347-5318	E-mail: kevininman@protectionone.com							
Installing contractor: Protection One	Certificate of Fitness No: applied for 1003							
Contractor phone: 207-347-5316	E-mail: johnkempton@protectionone.co							
This is a new application: YES NO	)							
This is an amendment to an existing permit: YES NO	Permit no:							
The following documents shall be provided with this application:	•							
Floor plans	COST OF WORK: \$6500.00							
Wiring diagram	PERMIT FEE:							
Annunciator deta RECEIVED	(\$10 PER \$1,000 + \$30 FOR THE FIRST \$1,000)							
Equipment data sheets								
Battery & voltage drop/spaculations 2010								
Input/ Output Matrix Dept. of Building Inspections Designer qualifications Portland Mains								
Designer qualifications Portland Maine								
Electrical Permit Pulled (check alarm/com)								
The designer shall be the responsible party for this application.	Download a new copy of this application at							
www.portlandmaine.gov/fire for every submittal. Submit all plans in e	electronic PDF in <u>addition</u> to full sized plans to the							
Building Inspections Department, 389 Congress Street, Room 315	, Portland, Maine 04101.							
Prior to acceptance of any fire alarm system, a complete commissioning and acceptance test must be coordinated with all								
fire system contractors and the Fire Department, and proper documentation of such test(s) provided.								
All installation(s) must comply with the City of Portland Technical Standard for Signaling Systems for the Protection of								
Life and Property, available at www.portlandmaine.gov/fire.								
Applicant signature:	Date: 1-12-10							

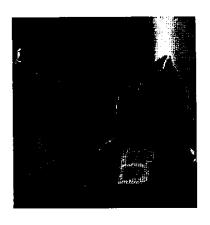
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	LCD Remote Annunc.		0.000	0.000					
	Power Expander		0.000	0.000					
	Power Expander		0.000	0.000					
	LED Annunciator (3G) LED Annunciator (4G)		0.000	0.000					
	LED Driver Module	2011131	0.000	0.000					
	Relay Module		0.000	0.000					
	Notification Appl Circuit	1220112	0.000	0.430	#14 Solid		200		2.12%
	Notification Appl Circuit		0.000	1.650	#14 Solid				8.15%
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# EVACUATION ROUTE – WMME PORTLAND MAIN OFFICE AREA





Not to Scale



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



# The affordable addressable fire alarm control panel solution.

IntelliKnight Model 5700 is a 50 point 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.

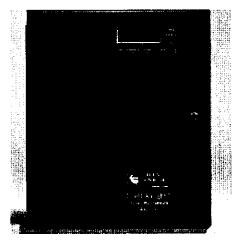
For more information about the IntelliKnight system, or to locate your nearest source, please call 800-328-0103 or in Connecticut, call 203-484-7161.

#### 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 Hochiki 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 Hochiki devices or 50 SK detectors and 50 SK modules.
- · 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 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)
- 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
- Two built-in Form C programmable relays rated at 2.5A at 27.4 VDC
- · Programmable date setting for Daylight Saving Time



Model 5700

#### Installation

The 5700 is a surface mount FACP.

#### Compatibility

The 5700 SLC supports multiple device types of the *same* protocol:

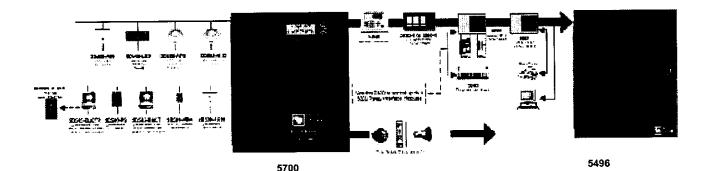
- Hochiki
- SK

You cannot mix Hochiki and SK devices on a FACP. However, any combination of addressable devices of the same protocol can be used on the 5700.



# 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, powerlimited

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

#### 5883 Relay Board

package.

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 Hochiki Devices Specification Sheet

53623 SK Protocol Devices Specification

Sheet

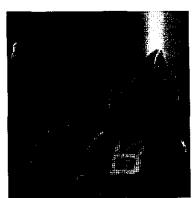
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Phone: (800) 328-0103 or (203) 484-7161, Fax: (203) 484-7118. www.silentknight.com

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MADE IN AMERICA

P/N 350392 Rev. F ECN 09-520 09/09

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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/SA provides 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 or in Connecticut, call (203) 484-7161.

#### **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-Beam and SK-Beam-T are compatible with the following IntelliKnight FACP's:

5700 5808 5820XL



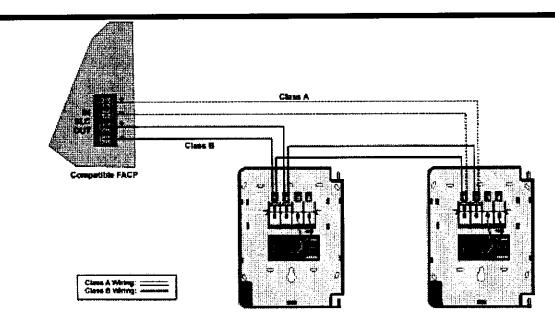
# Model SK-Pull-Da and SK-Pull-SA



# **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.



William 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

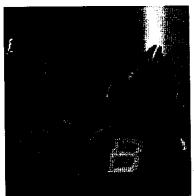
Surface backbox



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# **SK-Photo** 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

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: 32º - 120ºF (0ºC - 49ºC)

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** B501 B501BHT-2 Temporal base **B224RB** B224BI

B501BH-2

(included) 6" base 2 wire base

Relay base Isolator base 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.

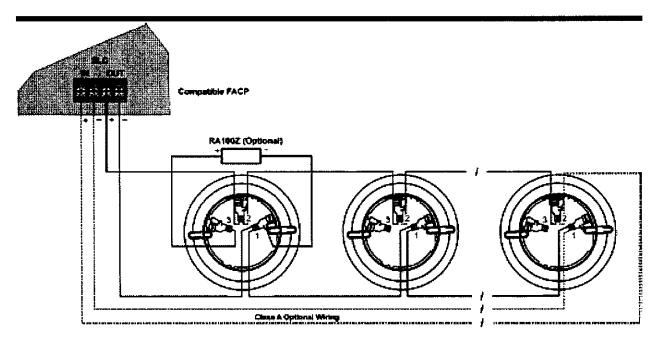
The base shall permit direct interchange with SK-Photo or SK-Photo-T. Base shall be the appropriate twist-lock base part number B210LP (included).

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.

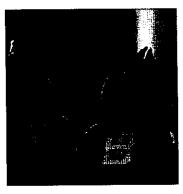
The vandal-resistant, security locking feature shall be used in those areas as indicated on the drawing. The locking feature shall be field selectable as required.

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.



Wiring SK-Series Detector Mounting Bases





# 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 thermal detector that uses a thermistor sensing circuit to produce 135°F (57°C) fixed thermal detection.

SK-Heat-HT is a high temperature detector that provides fixed temperature alarm at 190°F. SK-Heat-ROR is a fixed temperature and rate-of-rise thermal detector that uses a thermistor sensing circuit to produce 135°F (57°C) thermal protection.

#### **Features**

- · Sleek, low-profile design
- 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**

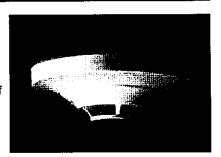
SK-Heat & SK-Heat-ROR: -4° – 100°F (20°C– 38°C)

SK-Heat-HT: -4° - 150°F (20°C - 66°C)

Humidity: 10% – 93% noncondensing

#### **Thermal Ratings**

SK-Heat: Fixed temperature setpoint 135°F (57°C)



SK-Heat (base included)

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

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

# Compatibility

The SK-Ion is 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 B501BH-2 Sounder base B501BHT-2 Temporal base



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

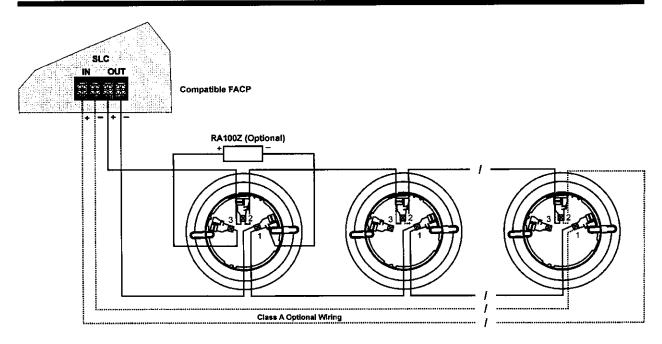


#### **Engineering Specifications**

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 smoke detector shall have a flashing status LED for visual supervision. When the detector is actuated, 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



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by Honeywell



# Selectable Output Horns, Strobes, and Horn/Strobes

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











#### **Features**

- Electrically compatible with existing SpectrAlert products
- Automatic selection of 12- or 24-volt operation at 15 and 15/75 candela
- · Plug-in design
- Field selectable candela settings on wall and ceiling units: 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, 185
- Same mounting plate for wall- and ceiling-mount units
- Shorting spring on mounting plate for continuity check before installation
- Tamper resistant construction
- Outdoor wall and ceiling products rated from -40°F to 151°F
- Design allows minimal intrusion into the back box
- Horn rated at 88+ dbA at 16 volts
- Rotary switch for horn tone and three volume selections
- Outdoor products UL listed to UL 1638 (strobe) and UL 464 (horn) outdoor requirements
- Outdoor products NEMA 4X rated
- Compatible with MDL sync module

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

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

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

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

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

#### **Agency Listings**







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

#### **SpectrAlert Advance Specifications**

#### Architect/Engineer Specifications

#### General

SpectrAlert Advance horns, strobes and horn/strobes shall mount to a standard 4 × 4 × 1½-inch back box, 4-inch octagon back box or double-gang back box. Two-wire products shall also mount to a single-gang 2 × 4 × 1½-inch back box. A universal mounting plate shall be used for mounting ceiling and wall products. The notification appliance circuit wiring shall terminate at the universal mounting plate. Also, SpectrAlert Advance products, when used with the Sync-Circuit\* Module accessory, shall be powered from a non-coded notification appliance circuit output and shall operate on a nominal 12 or 24 volts. When used with the Sync-Circuit Module, 12-volt rated notification appliance circuit outputs shall operate between 12 and 13 volts. Indoor SpectrAlert Advance products shall operate between 32 and 120 degrees Fahrenheit from a regulated DC, or full-wave rectified, unfiltered power supply. Strobes and horn/strobes shall have field-selectable candela settings including 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, 185.

#### Strobe

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

#### Horn/Strobe Combination

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

#### **Outdoor Products**

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

#### Synchronization Module

The module shall be a System Sensor Sync-Circuit model MDL listed to UL 464 and shall be approved for fire protective service. The module shall synchronize SpectrAlert strobes at 1Hz and horns at temporal three. Also, while operating the strobes, the module shall silence the horns on horn/strobe models over a single pair of wires. The module shall mount to a 411/16 × 21/4-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.

32°F to 120°F (0°C to 49°C)
-40°F to 151°F (-40°C to 66°C)
10 to 93% non-condensing (indoor products)
1 flash per second
Regulated 12DC/FWR or regulated 24DC/FWR <sup>1</sup>
8 to 17.5 V (12V nominal) or 16 to 33 V (24 nominal)
12 to 18 AWG
$6.8$ " diameter $\times 2.5$ " high (173 mm diameter $\times 64$ mm high)
5.61×4.7W×2.51D (142 mm L×119 mm W×64 mm D)
5.61. × 4.7 W × 1.3 D (142 mm L × 119 mm W × 33 mm D)
$5.9$ L $\times$ $5.0$ W $\times$ $2.2$ D (151 mm L $\times$ 128 mm W $\times$ 56 mm D)
7.1" diameter $\times$ 2.25" high (180 mm diameter $\times$ 57 mm high)
5.7°L × 5.1°W × 2.0°D (145 mm L × 130 mm W × 51 mm D)
7.1° diameter $\times$ 2.0° high (180 mm diameter $\times$ 51 mm high)
5.71×4.812°W×0.35°D (146 mm L×122 W mm×9 D mm)
6.9" diameter $\times$ 0.35 high (176 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**

UL Max. Strobe 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*	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			

		8-17.5	Volts	16-33 Volts		
Sound Pattern	dB	DC	FWR	DÇ	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	<b>4</b> 6	52	50	

	817.5 V	/olts	16-33 V	olts					
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

	16-33 V	'olts				1633 Volts			
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	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	<b>2</b> 75	281
Non-temporal Medium	242	259	293	299	Non-temporal Medium	219	232	262	267
Non-temporal Low	238	254	291	295	Non-temporal Low	214	229	256	262

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

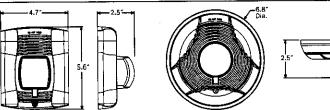
ratings must be reduced in accordance with this table.						
Strobe Output (cd)						
Listed Candela	Candela rating at -40°F					
15						
15/75	Do not use below 32°F					
30						
75	44					
95	70					
110	110					
115	115					
135	135					
150	150					
177	177					
185	185					

#### **Horn Tones and Sound Output Data**

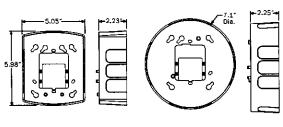
Switch Position	Sound Pattern	dB	8-17.5 Volts		16-33 Volts		24 Volt Nominal			
							Reverberant		Anechoic	
			DC	FWR	DC	FWR	DÇ	FWR	DC	FWR
1	Temporal	High	78	78	84	84	88	88	99	98
2	Temporal	Medium	74	74	80	80	86	86	96	96
3	Temporal	Low	71	73	76	76	83	80	94	89
4	Non-temporal	High	82	82	88	88	93	92	100	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	<b>8</b> 5	90	90	97	98
9 <sup>†</sup>	Coded	Low	75	75	81	81	88	85	96	92

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

#### **SpectrAlert Advance Dimensions**

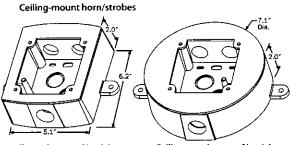


Wall-mount horn/strobes



Wall back box skirt

Ceiling back box skirt



Wall weatherproof back box

Ceiling weatherproof back box

#### **SpectrAlert Advance Ordering Information**

Model	Description
Wall Horn/	Strobes
P2R*f	2-wire Horn/Strobe, Standard cd <sup>‡</sup> , Red
P2RH*	2-wire Horn/Strobe, High cd, Red
P2RK*=	2-wire Horn/Strobe, Standard cd, Red, Outdoor
P2RHK <sup>±</sup>	2-wire Horn/Strobe, High cd, Red, Outdoor
P2W*	2-wire Horn/Strobe, Standard cd, White
P2WH*	2-wire Horn/Strobe, High cd, White
P4R*	4-wire Horn/Strobe, Standard cd, Red
P4RH*	4-wire Horn/Strobe, High cd, Red
P4RK <sup>a</sup>	4-wire Horn/Strobe, Standard cd, Red, Outdoor
P4RHK <sup>¤</sup>	4-wire Horn/Strobe, High cd, Red, Outdoor
P4W*	4-wire Horn/Strobe, Standard cd, White
P4WH*	4-wire Horn/Strobe, High cd, White
Wall Strobe	es
SR*	Strobe, Standard cd, Red
SRH* <sup>+</sup>	Strobe, High cd, Red
SRK <sup>®</sup>	Strobe, Standard cd, Red, Outdoor
SRHK	Strobe, High cd, Red, Outdoor
SW*	Strobe, Standard cd, White
SWH*	Strobe, High cd, White
Ceiling Ho	rn/Strobes
PC2R*	2-wire Horn/Strobe, Standard cd, Red
PC2RH*	2-wire Horn/Strobe, High cd, Red
PC2RK <sup>™</sup>	2-wire Horn/Strobe, Standard cd, Red, Outdoor
PC2RHK"	2-wire Horn/Strobe, High cd, Red, Outdoor
PC2W*†	2-wire Horn/Strobe, Standard cd, White
PC2WH*⁺	2-wire Horn/Strobe, High cd, White
PC4R	4-wire Horn/Strobe, Standard cd, Red
PC4RH	4-wire Horn/Strobe, High cd, Red
PC4RK	4-wire Horn/Strobe, Standard cd, Red, Outdoor
PC4RHK <sup>®</sup>	4-wire Horn/Strobe, High cd, Red, Outdoor

Model	Description					
Ceiling Horn	Ceiling Horn/Strobes (cont'd.)					
PC4W	4-wire Horn/Strobe, Standard cd, White					
PC4WH	4-wire Horn/Strobe, High cd, White					
Ceiling Stro	bes					
SCR*	Strobe, Standard cd, Red					
SCRH*	Strobe, High cd, Red					
SCRK"	Strobe, Standard cd, Red, Outdoor					
SCRHK <sup>®</sup>	Strobe, High cd, Red, Outdoor					
SCW*†	Strobe, Standard cd, White					
SCWH*†	Strobe, High cd, White					
Horns						
HR	Horn, Red					
HRK"	Horn, Red, Outdoor					
HW	Horn, White					
Accessories						
BBS-2	Back Box Skirt, Wall, Red					
BBSW-2	Back Box Skirt, Wall, White					
BBSC-2	Back Box Skirt, Ceiling, Red					
BBSCW-2	Back Box Skirt, Ceiling, White					
TR-HS	Trim Ring, Wall, Red					
TRW-HS	Trim Ring, Wall White					
TRC-HS	Trim Ring, Ceiling, Red					
TRCW-HS	Trim Ring, Ceiling, White					
Natar	<u> </u>					

#### Notes:

- \* Add "-P" to model number for plain housing (no "FIRE" marking on cover), e.g., P2R-P.
- † Add "-SP" to model number for "FUEGO" marking on cover, e.g., P2R-SP.
- #"Standard cd," refers to strobes that include 15, 15/75, 30, 75, 95, 110, and 115 candela settings. "High cd," refers to strobes that include 135, 150, 177, and 185 candela settings.
- All outdoor units ending in "K" include a weatherproof back box.
- $^{\mathtt{m}}$  Add "-R" to model number for weather proof replacement device (no back box included).

