DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND



BUILDING PERMIT

This is to certify that <u>PROTECTION ONE</u> of 10 Manuel Dr, Portland, Maine 04103 For installation at <u>201 CONGRESS ST</u> <u>3-Family</u>

Job ID: 2011-07-1806-FAFS

CBL: 013 - - M - 019 - 001 - - - - -

has permission to install a sprinkler supervisory system

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

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

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

Fire Prevention Officer

Code Enforcement Officer / Plan Reviewer

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

BUILDING PERMIT INSPECTION PROCEDURES

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

or email: buildinginspections@portlandmaine.gov

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

- Please read the conditions of approval that is attached to this permit!! Contact this office if you have any questions.
- Permits expire in 6 months. If the project is not started or ceases for 6 months.
- If the inspection requirements are not followed as stated below additional fees may be incurred due to the issuance of a "Stop Work Order" and subsequent release to continue.

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

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



PORTLAND MAINE

Strengthening a Remarkable City, Building a Community for Life . www.portlandmaine.gov

Director of Planning and Urban Development Penny St. Louis

Job ID: <u>2011-07-1806-FAFS</u> Installation of a <u>sprinkler supervisory</u> <u>system</u> For installation at: 201 CONGRESS ST 3-Family

CBL: <u>013 - - M - 019 - 001 - - - - -</u>

Conditions of Approval:

Fire

Fire Alarm system shall be maintained. If system is to be off line over 4 hours a fire watch shall be in place. Dispatch notification required 874-8576.

The fire alarm system shall comply with the City of Portland Standard for Signaling Systems for the Protection of Life and Property. All fire alarm installation and servicing companies shall have a Certificate of Fitness from the Fire Department.

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

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

A sprinkler supervisory system shall be provided in accordance with NFPA 101, *Life Safety* Code, and NFPA 72, *National Fire Alarm and Signaling Code*. Sprinkler supervisory systems shall monitor for water flow and sprinkler supervisory signals via an approved fire alarm panel to central station. One smoke detector shall be located over the panel, a manual pull station located at the front door, and an audible water flow alarm provided.

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

Installation of a sprinkler or fire alarm system requires a Knox Box to be installed per city ordinance.

City of Portland, Maine - Building or Use Permit Application

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

Job No: 2011-07-1806-FAFS	Date Applied: 7/28/2011		CBL: 013 M - 019 - 00	1				
Location of Construction: 201 CONGRESS ST	Owner Name: LACEY ROBACK & TIN FLANNIGAN	мотну	Γ 04103		Phone:			
Business Name:	Contractor Name: Protection One – Robin R							
Lessee/Buyer's Name:	Phone:		Permit Type: FIRE ALARM - Fi		Zone: B-1			
Past Use: Three family	Proposed Use: Same – Three family - fire alarm	– install a	Cost of Work: 4000.00 Fire Dept:	✓ Approved	conditions	CEO District Inspection: Use Group		
Proposed Project Description	n:		Signature: Pedestrian Activ	/	conditions 58	Type: Signature		
Install Fire Alarm Permit Taken By:				Zoning Appr	oval			
		Special Ze	one or Reviews	Zoning Appea		reservation		
 This permit application Applicant(s) from meeti Federal Rules. Building Permits do not septic or electrial work. Building permits are voi within six (6) months of False informatin may in permit and stop all work 	ing applicable State and tinclude plumbing, id if work is not started the date of issuance.	Shoreland Selection Subdivis Site Plan Maj	nd ls one sion	Variance Miscellaneous Conditional Us Interpretation Approved Denied Date:	Not in Di Does not Requires Approved	st or Landmark Require Review Review		
reby certify that I am the owner of owner to make this application as h appication is issued, I certify that the inforce the provision of the code(s)	his authorized agent and I agree the code official's authorized rep	or that the prope to conform to	all applicable laws of t	his jurisdiction. In add	dition, if a permit for wo	ork described in		

DATE

ELECTRICAL PERMITCity of Portland, Me.

National Electrical Code and the following specifications:

To the Chief Electrical Inspector, Portland Maine:

The undersigned hereby applies for a permit to make electrical installations in accordance with the laws of Maine, the City of Portland Electrical Ordinance,

Date	07/28/11
Permit #_	
CBL#	17. M.19

TOTAL EACH FEE

LOCATION: 201 CONGRESS ST	METER MAKE & #	CBL# / 3 / 1 / 7
CMP ACCOUNT #	OWNER LACY	FLANAGAN
TENANT ATLANTIC HOUSE	PHONE # (781) 854	1-6688

					IAL EACH FEE
OUTLETS		Receptacles	Switches	Smoke Detector	.20
EIVELDEO					
FIXTURES		Incandescent	Fluorescent	Strips	.20
SERVICES		Overhead	Underground	TTL AMPS <800	15.00
		Overhead	Underground	>800	25.00
Temporary Service		Overhead	Underground	TTL AMPS	25.00
					25.00
METERS		(number of)			1.00
MOTORS		(number of)			2.00
RESID/COM		Electric units			1.00
HEATING		oil/gas units	Interior	Exterior	5.00
APPLIANCES		Ranges	Cook Tops	Wall Ovens	2.00
		Insta-Hot	Water heaters	Fans	2.00
		Dryers	Disposals	Dishwasher	2.00
		Compactors	Spa	Washing Machine	2.00
		Others (denote)			2.00
MISC. (number of)		Air Cond/win			3.00
		Air Cond/cent		Pools	10.00
		HVAC	EMS	Thermostat	5.00
		Signs	75	-CE	10.00
		Alarms/res	H		5.00
	-1	Alarms/com		28 2011	15.00
		Heavy Duty(CRKT)		1111	2.00
-		Circus/Carnv		JUL of Building Inspections	25.00
		Alterations		- Building Mail	5.00
		Fire Repairs	06	P. of Portion	15.00
		E Lights		of Building Inspections City of Portland Maine	1.00
		E Generators			20.00
PANELS		Service	Remote	Main	4.00
TRANSFORMER		0-25 Kva			5.00
		25-200 Kva			8.00
		Over 200 Kva		+	10.00
		0701 200 KVa		TOTAL AMOUNT DUE	10.00
		MINIMUM FEE/COMI	AEDOLAL EE OO		.00

CONTRACTORS NAME PROJECTION ONE MASTER LIC. # MC 600/8702

ADDRESS 10 MANUEL DR. PORTLAND ME 04/03 LIMITED LIC. #

TELEPHONE (207) 347-53/6

SIGNATURE OF CONTRACTOR

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: 201 Congress Street	CBL: 3. M.19
Exact location: (within structure) Middle Basement	
Type of occupancy(s) (NFPA & ICC): Residential	
Building owner: Lacy Flanagan	
Must be System Designer (point of contact): Robin Russell	
Designer phone: (207) 347-5327	E-mail: rrussell@protectionone.com
Installing contractor: Protection One	_Certificate of Fitness No: M1003
Contractor phone: (207) 347-5327	E-mail: rrussell@protectionone.com
	AES Master Box: YES NO lde Master Box approval form)
Amendment to an existing permit: YES NO Perm	it no:
The following documents shall be provided with this application:	
Floor plans Scope of Work	COST OF WORK: 3,900.00
Wiring diagram 11 ½ x 17s	PERMIT FEE: (\$10 PER \$1,000 + \$30 FOR THE FIRST \$1.000)
Annunciator details pdf copy (may be e-mailed)	(4.012.4.000 - 4501.51.1.2.1.1.31.500)
Input/ Output Matrix	
Equipment data sheets Battery/ voltage drop calcs	
Electrical Permit Pulled (check alarm/com)	
Master box approval only: YES NO (If yes check New AES Master Box above)	,
The designer shall be the responsible party for this application. Do	2
www.portlandmaine.gov/fire for every submittal. Submit all plans in el	
the Building Inspections Department, 389 Congress Street, Room 3	
Prior to acceptance of any fire alarm system, a complete commissionin	
fire system contractors and the Fire Department, and proper documenta	2 3 6
All installation(s) must comply with the City of Portland Technical State Life and Property, available at www.portlandmaine.gov/fire .	indard for Signaling Systems for the Protection of
Applicant signature: John: Jussell	Date: 7/28/11



NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES®

Providing Certification Programs Since 1961

BE IT KNOWN THAT

Robin L. Russell

IS HEREBY AWARDED CERTIFICATION AT

LEVEL II

IN FIRE PROTECTION ENGINEERING TECHNOLOGY FIRE ALARM SYSTEMS

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

Certification Valid through April 1, 2013

CERTIFICATION NUMBER 110826

CHAIRMAN OF THE NICET BOARD OF GOVERNORS

A DIVISION OF THE NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS



Job Name: Atlantic House

Atlantic House Residential

201 Congress Street Portland, ME 04101

AHJ: City of Portland Fire Department

Prepared By:

Robin Russell

NICET # 110826

Protection One 10 Manuel Drive Portland, ME 04103 (207) 347-5327

Circuit Information

Panel Name: Untitled Panel 1

Circuit Name: Untitled Circuit 1
Starting Voltage: Starting Voltage = 20.4

(1) amp circuit

Class B @ 14 AWG

DC 24 - volt Supply

Type and Model	Candela	Current (Amps)	Tone and Volume	Dist from last device	SCHOOL SCHOOL SCHOOL	 14	16	18
Total current/amps 0.000	Total Dist	:0			voltage drop			

7/27/2011 1

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	Version 02.24.09							ireshold % :	10	學先
DIID	[5700		1	5700 A I	F Al O					
Panel ID:			March 1997		. Fire Alarm Contr	oi Panei		Current:		
Location:	201 Congress Street, Portla	and, Ma	Volts:	24 VDC			Max Pane	el Current:	2.5 Amps	
Ckt.#	Circuit Name	Qty	Currer	nt Draw Alarm	Wire AWG & Type	Ohms Per 1000 Ft.	Length(ft) One-Way	Actual Ohms	Volts @ EOL	%Drop
5700	5700 CTRL Panel	1	0.200	0.325	7			Cillino		/
SD500-AIM	Addr. Input Mod	7986	0.000	0.000						/
SD500-MIM	Mini-Input Module	5	0.003	0.003						/
SD500-ARM	Addr Relay Module	COME.	0.000	0.000					,	
SD500-PS	Addr. Pull Station	1	0.001	0.001					/	
SD505-AIS	Addr Ion Smoke Det	1383	0.000	0.000					/	
SD505-AHS	Addr Heat Detector	43	0.000	0.000					/	
SD505-APS	Addr Photo Smoke Det	1	0.001	0.001				/		
SD505-DUCTR	Addr Duct w/Relay	福	0.000	0.000				/		
SD505-DUCT	Addr Duct		0.000	0.000				/		
SD500-ANM	Addr. Notification Module	ALC: N	0.000	0.000						
SD500-LED	Addr LED Module	Lill.	0.000	0.000			\ /			
SD500-SDM	Addr Smoke Det. Mod		0.000	0.000			NA			
SD505-6RB	Addr Det. Relay Base	ALC:	0.000	0.000						
SD505-6SB	Addr Det. Sounder Base	+10	0.000	0.000						
SD505-6IB	Addr. Det. Isolator Base	La la	0.000	0.000						
SD500-LIM	Line Isolation Module		0.000	0.000						
5860	LCD Remote Annunc	N.	0.000	0.000				1		
5824	Serial/Parallel Module	E. E	0.000	0.000						
5496	Power Expander	The st	0.000	0.000	/					
5895XL	Power Expander	L. Hills	0.000	0.000					/	
5865-4	LED Annunciator (4G)	100	0.000	0.000						\ ###

Standby Time In Hours 24 0.083

Total Standby AH Required 4.892 0.027

Total Combined AH Required 4.92

Multiply By The Derating Factor 1.20

Minimum Battery AmpHours Required 5.90

Total Standby Current (Amps)

LED Annunciator (3G)

Notification Appl Circuit

Notification Appl Circuit

LED Driver Module

Relay Module

5865-3

5880

5883

NAC #1

NAC #2

0.000

0.000

0.000

0.000

0.000

0.204

0.000

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0.000

0.329

0.000 #14 Solid

0.000 #14 Solid

Command Shortcuts

(5 Mins)

Configure Circuits

Total Alarm Current (Amps)

Alarm Time In Minutes / 60

Total Alarm AH Required

2.52

2.52

Print Page

20.40

20.40

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0.00%

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0.00

	Protection One Branch 11660										_						Syste							-		_						_	_	_	
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1	FACP Ground Fault			-			X			1-	-					X	-	-	-	-	-				-	+	-	+			+	-			_
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1	Low Temperature		+-	+-+			X	-	+	+	-	-	-	-+		X	-	-	+	-	-	-	-	\rightarrow		-				+	+-	+	-		
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SD500-PS and SD500-PSDA Addressable Pull-Station



IntelliKnight's addressable pull stations combine fast response with pin-point location ID.

The SD500-PS and SD500-PSDA are a single action or dual action addressable manual fire alarm pull station for use with Silent Knight's IntelliKnight fire control panel. Extremely easy to operate, the SD500-PS/PSDA 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. The SD500-PS/PSDA mounts to a single gang box and features a rugged metal construction that lasts and lasts.

Combine all this with the features you've come to expect from Silent Knight - easy installation and stable operation - and it adds up to a flexible solution for all your fire protection needs.

Model SD500-PS & SD500-PSDA Addressable Pull Station

The SD500-PS is a single action addressable fire pull station, and the SD500--PSDA is a dual action addressable fire pull station. The SD500-PS/PSDA feature rugged metal construction A terminal strip on back of the pull station allows interconnection of the pull station to the SLC of an IntelliKnight control panel. The SD500-PS/PSDA is designed for indoor use in nonexplosive environments. The normally open initiating point contacts are gold-plated to avoid risk of corrosion. The SD500-PS/PSDA has been tested by UL for compliance to the requirements of the Americans with Disabilities ACT (ADA).

Features

- UL Listed
- · CSFM listed
- ADA compliant
- Key reset (Same key as Silent Knight enclosures)
- Surface mount back box available
- Terminals accept up to 14 gauge wire

- · Extremely easy to operate
- Corrosion-resistant gold-plated contacts.
- Reflective label makes it easier to locate in low light

Operation

The SD500-PS/PSDA single action pull stations are operated by a pull on the front pull cover of the station. A plunger switch, wired to a self contained addressable module, is released as the pull station opens to initiate the alarm. Once operated, the cover hangs down and can be seen up to 100 feet away. The pull station is reset by returning the front cover to the normal upright position and relocking the station with a reset key. The reset keys are the same keys used on Silent Knight enclosures.

The SD500-PS/PSDA includes a status LED which blinks, indicating that the addressable module is communicating with the loop. The status LED lights continuously during an alarm. A dip switch on the addressable module is used to set the unique address.

Specifications

	_
Operating Voltage:	24VDC
Standby Current:	55mA
Alarm Current:	.55mA



SD500-PS

Ambient Temperature: 32°F to 120°F (0°C to 49°C)

Mounting: Single gang box -

Optional Red Surface Mount Box PS-SMBB



SD500-PS and SD500-PSDA Addressable Pull-Station

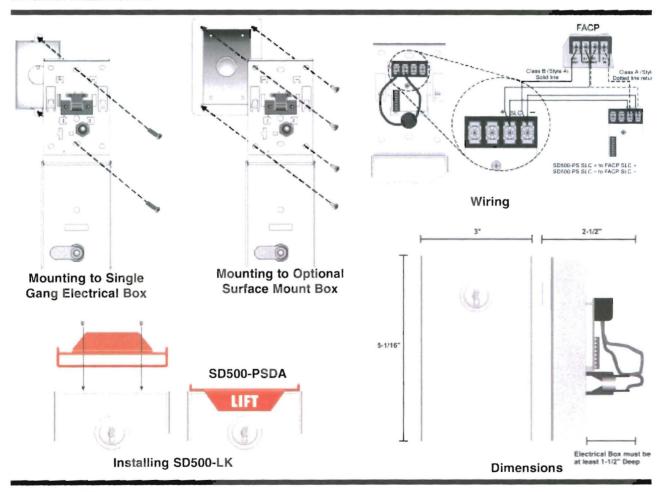


Engineering Specifications

Manual pull station shall be addressable Module SD500-PS/SD500-PSDA. Equipment shall be made of 14 gauge C.R.S.(Cold Rolled Steel), painted with a red enamel . The label shall contain the words Fire Alarm and be made of a reflective material embossed text 3/8 inches tall. Operating instruction shall be clearly visible on the same label. Manual station Shall contain a key operated test and reset lock using a lock plate actuator, the key shall match the control panel.

Manual station shall contain four terminal blocks with two connected to the addressable module and two connect to the SLC loop. Manual station shall provide data to the control panel with an ID address programmed by dip switch settings .

Manual stations shall be Underwriters Laboratories Inc. listed and installed within the limits defined in the American Disabilities Act.







SD500-AIM & SD500-MIM Addressable Input Modules



IntelliKnight's addressable contact monitor modules combine fast response with pinpoint location ID. A combination that saves lives and property.

The SD500-AIM and SD500-MIM are addressable input modules for use with Silent Knight IntelliKnight fire alarm control panels (FACP). The SD500-AIM and SD500-MIM are designed to be used with pull stations,

water flow switches, and other applications requiring dry contact alarm initiation devices.

The SD500-AIM addressable input module mounts to a 4"-square box. The SD500-MIM mini input module fits inside a single gang box. The modules are supervised, single input contact monitors. Using an EOL resister, they monitor for alarm contact closures and for open circuit wiring fault conditions.

The SD500-AIM and SD500-MIM offer a compact design for adaptability and pleasing aesthetics as well as easy installation and stable operation—a flexible solution for all your fire protection needs.

For more information about the IntelliKnight system, or to locate your nearest source, please call 1-800-446-6444, or in Minnesota, call 763-493-6435.

Description

The SD500-AIM and SD500-MIM are addressable input modules for use with the Intelliknight fire alarm control panels (FACPs) The SD500-AIM addressable input module mounts to a 4"-square box. The SD500-MIM mini input module fits inside a single gang box. Both input modules are designed to be used with pull stations, water flow switches, and other applications requiring dry contact alarm initiation devices.

These modules are supervised, single input contact monitors. Using an EOL resistor, they monitor for alarm contact closures and for open circuit wiring fault conditions. If a fault occurs in the wiring, the module alerts the FACP. Each addressable input module is programmed with a unique signal line circuit (SLC) loop address.

Features

- · Single contact monitor
- SD500-AIM supports Class A (Style D) or Class B (Style B) contact monitor wiring
- SD500-MIM support for Class B (Style B) contact monitor wiring
- Attractive ivory cover plate with the SD500-AIM
- Small and lightweight size allows for flexible mounting options with the SD500-MIM

- DIP switch programmable for fast installation
- Up to 2500 ft wiring distance from either input module to contact
- · Use up to 14 gauge wire
- UL listed

Electrical Specifications

Standby Current: 0.55 mA

Alarm Current: 23 mA max for one device; 46 mA max for two devices; 0.55 mA for each additional device

Line Resistance: 50Ω max

Mechanical Specifications

SD500-AIM Physical Description Dimensions:

4.9" W x 4.9" H x 1" D (12.4 W x 12.4 H x 2.5 D cm) Weight: 3.6 oz (120.1 g) Color: Ivory cover plate

SD500-MIM Physical Description Dimensions:

1.5" W x 2.5" H x 0.7" D (3.8 W x 6.4 H x 1.8 D cm) Weight: 1.6 oz (45.4 g)

Environmental

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

Humidity: 10% – 93% non-condensing



SD500-AIM



Approvals

NFPA 71 & NFPA 72 UL 864 CSFM 7300-0559: 132 MEA 429-92-E Vol. IX FM Approved for use with the 5820XL



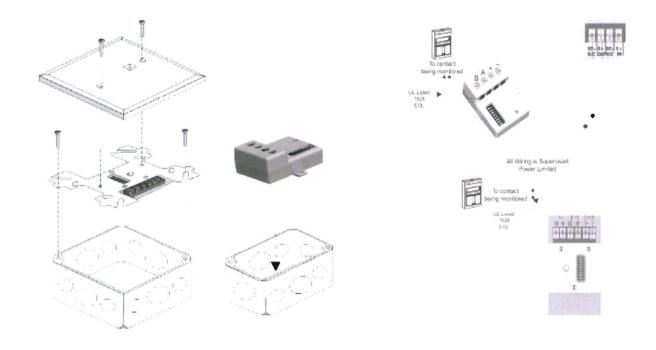
SD500-AIM & SD500-MIM Addressable Input Modules



Engineering Specifications

The contractor shall furnish and install where indicated on the plans, addressable input modules Silent Knight SD500-AIM or SD500-MIM. The modules shall be UL listed and compatible with Silent Knight's IntelliKnight FACPs.

The SD500-MIM shall fit inside a single gang electrical box. The SD500-AIM shall be supplied with a plastic cover and shall be suitable for mounting to a 4"-square or double gang electrical box. The SD500-AIM addressable input module must provide a monitor LED that is visible from outside the cover plate



Compatible FACPs

5820XL

5808

5700

Ordering Information

SD500-AIM Input Module

Addressable input module with ivory cover plate.

SD500-MIM Input Module

Addressable mini input module.



by Honeywell

www.silentknight.com

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 or 763-493-6400 Fax: (763) 493-6475.

MADE IN AMERICA

FORM# 350231 Rev D,

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Addressable Photoelectric Type Smoke Detector



Detect smoldering fires quickly and get help fast with IntelliKnight[®] photoelectric smoke detectors.

IntelliKnight addressable photoelectric smoke detectors are the clear choice for commercial settings where smoldering fires are a threat. In addition to accurately detecting a smoldering fire, each SD505-APS photoelectric detector has a unique address, which is recognized by the IntelliKnight panel. No precious seconds are wasted in determining location of an alarm.

The SD505-APS compensates automatically for contamination in the environment. And detector testing is simple—even from a remote site. Like other IntelliKnight detector models, the SD505-APS offers a low profile for pleasing aesthetics. The IntelliKnight family of detectors has been designed to use a common base, Model SD505-6AB, allowing complete application and placement flexibility. Combine all this with the features you've come to expect from Silent Knight smoke detectors—easy installation, stable operation, RF/transient protection, and vandal-resistant locking—and it adds up to a flexible solution for all your fire protection needs.

Model SD505-APS Analog / Addressable Photoelectric Type Smoke Detector

The SD505-APS is particularly suited to detecting dense smoke typical of fires involving materials such as soft furnishings, plastic, foam or other similar materials which tend to smolder and produce large visible particles.

The detector features automatic compensation for contamination and a simple detector calibration test procedure that can be run from the panel or remotely (using the WindowsTM based downloading software).

Operation

The SD505-APS units made up of an LED light source and a silicon photo diode receiving element. In a normal standby condition, the receiving element receives no light from the pulsing light source. In the event or fire, smoke enters the detector and light is reflected from the smoke particles to the receiving element.

The light received is converted into an electronic signal. Under normal conditions, the status LED blinks approximately every 15 seconds, indicating that the head is communicating with the loop. The LED lights continuously during the alarm period.

Features

- Low profile, 2 inches, including base
- Simple and reliable addressing without mechanical switches
- Automatic compensation for sensor contamination
- · Built-in fire test feature
- Simple detector calibration testing through the control panel or remotely through a WindowsTM based computer software.
- Vandal-resistance locking features
- · Field cleanable
- UL listed, meets NFPA 72 Ch 7 requirements
- CSFM approved
- · MEA approved
- · FM Approved



SD505-APS Smoke Detector

Specifications

Operating Voltage: 17-41 VDC

Current Consumption:

Standby: .55 mA Alarm: .55 mA

Ambient Temperature: 32°F to 120°F (0°C to 49°C)

Mounting: 4" Square, 4" OCT, Single

gang mud ring

Relative Humidity: 85% noncondensing

Air Velocity: 0 - 300 FPM

Compatible Bases: SD505-6AB (Sold Separately) (6" Base)

SD505-4AB (4" Base)



by Honeywell

Model SD505-APS Addressable Photoelectric Type Smoke Detector



Engineering Specifications

The contractor shall furnish and install where indicated on the plans, addressable photoelectric smoke detector Silent Knight SD505-APS. The combination detector head, and twist-lock base, shall be UL® listed compatible with Silent Knight's IntelliKnight fire control panels.

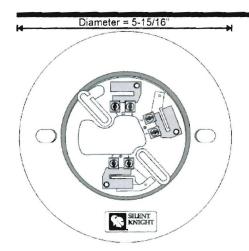
The base shall permit direct interchange with Silent Knight SD505-AIS Ionization Smoke Detector, or SD505-AHS Heat Detector. Base shall be the appropriate twist-lock base SD505-6AB.

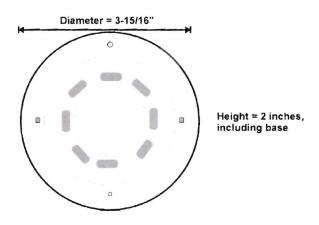
The smoke detector shall have a flashing status LED for visual supervision. When the detector is actuated, the flashing LED will latch on steady. The detector may be reset by actuating the control panel reset switch.

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 SD505-APS 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.





Model SD505-6AB Detector Base (front view)

Model SD505-APS Detector Head (front view)





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 1-800-446-6444, or in Minnesota, call 763-493-6435.

Description

5700 performs drift compensation and calibration checks on each of the sensors in the system.

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 also features a powerful built-in dual line fire communicator that allows for reporting of all system activity to a remote monitoring location.

Features

- · Up to 50 addressable points
- 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

Electrical Specifications

Primary AC: 120 VAC, 60 Hz, 1.5A Total Accessory Load: 2.5A @ 27.4 VDC

Notification Power: 2.5A @ 27.4 VDC, power-limited

Standby Current: 200 mA Alarm Current: 325 mA

Notification/Aux Power Circuits: 2.5A @ 27.4 VDC per circuit, power-limited

Battery Charging Capacity: 7.0-35.0 AH Battery Size: 7 AH max. allowed in FACP cabinet. Larger capacity batteries can be housed in an RBB accessory cabinet.

Mechanical Specifications

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



Model 5700

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.



SLC Detectors

SD505-APS

Addressable photoelectric smoke detector

SD505-AIS

Addressable ionization smoke detector

SD505-AHS

Absolute temperature heat detector that goes into alarm immediately if the temperature exceeds the programmable trip point. Trip point range from 135°F-150°F (0°C-37°C)

SD505-6AB

Six inch base for use with detector heads SD505-APS, SD505-AIS and SD505-AHS,

SD505-4AB

Four inch base for use with detector heads SD505-APS, SD505-AIS, and SD505-AHS

SD505-6SB

Six-inch sounder base for use with existing sensor and base. Operates in single and multi-station modes and/or as a system sounder Requires 2 additional wires for power

SD505-61B

Short circuit isolator base for SD505-AHS. SD505-APS, and SD505-AIS detectors.

Six-inch relay base for use with existing sensor and base. Provides one Form C contact

SD505-ADH

Duct housing that detects smoke in HVAC ducts.

SD505-ADHR

Duct detector base with relay. Provides Form C alarm contact. For use with SD505-APS and SD505-AIS sensors. Compatible with SD505-DTS remote test switch.

SD500-PS/SD500-PSDA

SD500-PS is a single action pull station and SD500-PSDA is a dual action pull station.

SLC Modules

Model SD500-AIM

Dry contact input module for use with normally open dry contacts. It features an indicator LED to show alarm status.

SD500-MIM

Mini dry contact input module is a small version of the SD500-AIM For use with pull stations and other normally open dry contact

SD500-ANM

Addressable notification module providing a single Class A or Class B notification circuit on the SLC

SD500-ARM

Addressable relay module that features two Form C output relays. Provides indicator LED to show output status.

SD500-SDM

Two-wire detector input module. Allows for the connection of conventional 2-wire detectors on the SLC loop. Requires two additional wires for power

SD500-LIM

A short circuit isolator module for SLC devices. When a short occurs on the SLC loop, it is detected as a trouble, but all SLC devices protected by the isolator module continue to operate

SD500-LED

An LED driver capable of driving 80 LEDs through the SLC loop. Up to 40 SD500-LEDs can be used per system

S-BUS Accessories

5860/R Remote Fire Annunciator

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

5496 Intelligent Power Module

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

5880 LED/IO Module

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

5865-3 and 5865-4 Remote LED Annunciator

Features 30

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

5883 Relay Board

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

5824 Serial/Parallel Printer Interface Module

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

Miscellaneous Accessories

5660 Silent Knight Software Suite

User-friendly Windows software for remote programming of 5700s using a PC. Upload and view panel account information, event history, and detector status.

5670 Silent Knight Software Suite

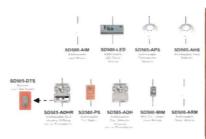
End-user facility management software allows viewing of detector status and event history via modem or direct connection.

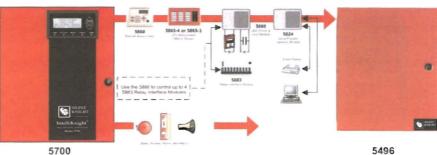
RBB

Remote Battery Box Accessory Cabinet Use if backup batteries are too large to fit into FACP cabinet. Dimensions. 16" W x 10" H x 6" D (406 mm W x 254 mm H x 152 mm D)

SD505-DTS

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





5496

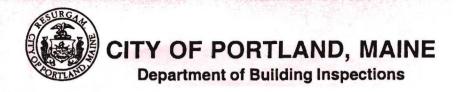


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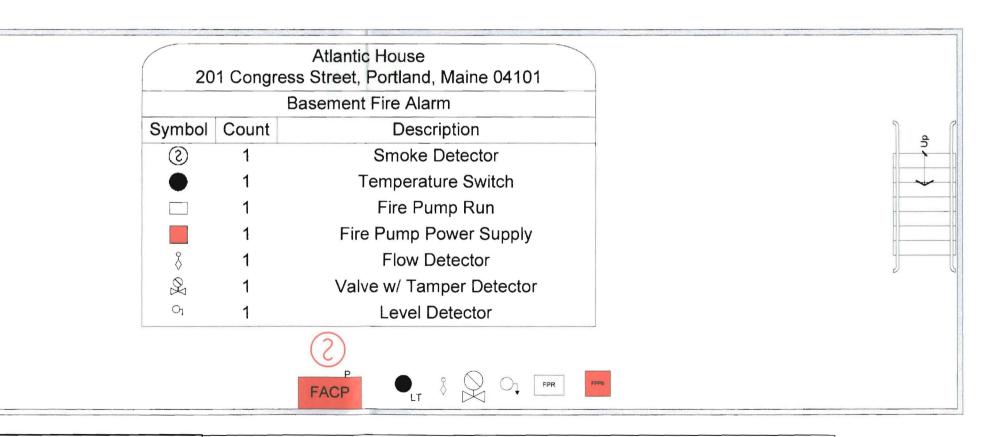


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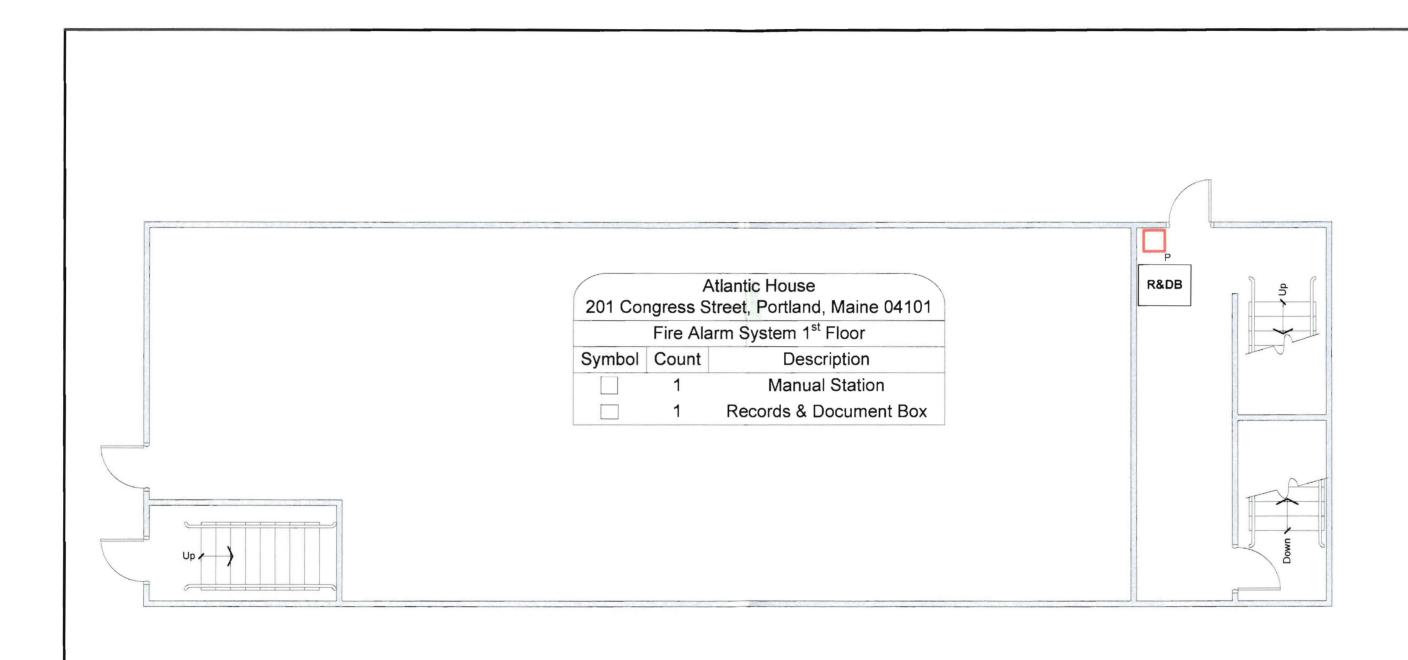




Robin Russell, Certified Engineering Technician, NICET Cert. # 110826

10 Manuel Drive, Portland, Maine 04103 (207) 347-5327

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