DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

CITY OF PORTLAND
BUILDING PERMIT

This is to certify that
HOBSON PIER INC /Protection One

Located at
390 COMMERCIAL ST

PERMIT ID: 2012-65617

CBL: 042 D002001

has permission to **install a supervised fire alarm system**

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

Notification of inspection and written permission procured before this building or part thereof is lathed or otherwise clsoed-in. 48 HOUR NOTICE IS REQUIRED.	A final inspection must be completed by owner before this building or part thereof is occupied. If a certificate of occupancy is required, it must be procured prior to occupancy.

(58)

Fire Prevention Officer

Code Enforcement Officer / Plan Reviewer

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

BUILDING PERMIT INSPECTION PROCEDURES
Please call 874-8703 (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.**

REQUIRED INSPECTIONS:

Final - Fire
Final - Electric

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

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

City of Portland, Maine - Building or Use Permit

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

Permit No:	Date Applied For:	CBL:
201265617	12/13/2012	042 D002001

Location of Construction:	Owner Name:	Owner Address:	Phone:
390 COMMERCIAL ST	HOBSON PIER INC	390 COMMERCIAL ST	
Business Name:	**Contractor Name:**	**Contractor Address:**	**Phone**
	Protection One	10 Manuel Drive Portland	(207) 347-5316
Lessee/Buyer's Name	**Phone:**	**Permit Type:**	
		Fire Alarm System	

Proposed Use:	Proposed Project Description:
Same: 1st floor Seafood Processing, 2nd floor vacant	Fire Alarm Permit for whole building.

Dept: Zoning **Status:** Approved **Reviewer:** Marge Schmuckal **Approval Date:** 12/13/2012

Note: **Ok to Issue:** ☑

Dept: Fire **Status:** Approved w/Conditions **Reviewer:** Ben Wallace Jr **Approval Date:** 12/21/2012

Note: **Ok to Issue:** ☑

1) All fire alarm records required by NFPA 72 should be stored in an approved cabinet located at the FACP labeled "FIRE ALARM RECORDS".
2) 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.
3) In field installation shall be installed per code as conditions dictate.
4) A master box connection is not authorized for this building.
5) The fire alarm system shall be certified by a master fire alarm company and have a new fire alarm inspection sticker.
6) All smoke detectors shall be photoelectric.
7) The FACP shall be installed in the corridor adjacent to and to the South of the North Stair. The door from the stair into the corridor shall be labeled FIRE ALARM. A Knox Box and exterior strobe shall be installed outside of the exterior door into the North stair on the opposite of the door's hinges.
8) The installation shall comply with the following:
   City of Portland Chapter 10, Fire Prevention and Protection;
   NFPA 1, Fire Code (2009 edition), as amended by City Code;
   NFPA 101, Life Safety Code (2009 edition), as amended by City Code;
   City of Portland Fire Department Rules and Regulations;
   NFPA 72, National Fire Alarm and Signaling Code (2010 edition), as amended by Fire Department Rules and Regulations; and
   NFPA 70, National Electrical Code (2011 edition) as amended by the State of Maine.
9) Records cabinet, FACP, annunciator(s), and pull stations shall be keyed alike.
10 Central Station monitoring for addressable fire alarm systems shall be by point.
11 System acceptance and commissioning must be coordinated with alarm and suppression system contractors and the Fire Department. Call 874-8703 to schedule.

City of Portland, Maine - Building or Use Permit Application

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

Permit No:	Issue Date:	CBL:
2012-65617		042 D002001

Location of Construction:	Owner Name:	Owner Address:	Phone:
390 COMMERCIAL ST	HOBSON PIER INC	390 COMMERCIAL ST	
Business Name:	**Contractor Name:**	**Contractor Address:**	**Phone**
	Protection One	10 Manuel Drive Portland	(207) 347-5316
Lessee/Buyer's Name	**Phone:**	**Permit Type:**	**Zone:**
		Fire Alarm System	WCZ
Past Use:	**Proposed Use:**	**Permit Fee:** / **Cost of Work:**	**CEO District:**
1st floor Seafood Processing, 2nd floor vacant	Same: 1st floor Seafood Processing, 2nd floor vacant	$250.00 / $23,000.00	

FIRE DEPT: ☑ Approved (conditional) ☐ Denied ☐ N/A

12/21/12

Signature:

INSPECTION: Use Group: Type:

Signature:

Proposed Project Description:
Fire Alarm Permit for whole building.

PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)

Action: ☐ Approved ☐ Approved w/Conditions ☐ Denied

Signature: Date:

Permit Taken By:	Date Applied For:
bjs	12/13/2012

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 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..

Zoning Approval

Special Zone or Reviews	Zoning Appeal	Historic Preservation
☐ Shoreland	☐ Variance	☑ Not in District or Landmark
☐ Wetland	☐ Miscellaneous	☐ Does Not Require Review
☐ Flood Zone	☐ Conditional Use	☐ Requires Review
☐ Subdivision	☐ Interpretation	☐ Approved
☐ Site Plan	☐ Approved	☐ Approved w/Conditions
Maj ☐ Minor ☐ MM ☐	☐ Denied	☐ Denied
Date: 12/13/12	Date:	Date:

CERTIFICATION

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT | ADDRESS | DATE | PHONE

RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE | DATE | PHONE

Fire Alarm Permit

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

Installation address: 390 Commercial Street CBL: 042 D002

Exact location: (within structure) 1st Tenant Pier Side from Commercial Street

Type of occupancy(s) (NFPA & ICC): Business

Building owner: Hobson's Pier, Inc.

System Designer (point of contact): Robin Russell (Must be)

Designer phone: (207) 347-5327 E-mail: rrussell@protection1.com

Installing contractor: Protection 1 Certificate of Fitness No: M1003

Contractor phone: (207) 347-5316 E-mail: jasongervais@protection1.com

This is a new application: YES ○ NO ○ New AES Master Box: YES ○ NO ◉
(Include Master Box approval form)

Amendment to an existing permit: YES ○ NO ◉ Permit no: _____

The following documents shall be provided with this application:

- ☑ Floor plans
- ☑ Wiring diagram
- ☑ Annunciator details
- ☑ Input/ Output Matrix
- ☑ Equipment data sheets
- ☑ Electrical Permit Pulled (check alarm/com)
- ☑ Scope of Work
- ☑ 11 ½ x 17s
- ☑ pdf copy (may be e-mailed)
- ☑ Designer qualifications
- ☑ Battery/ voltage drop calcs

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

COST OF WORK: $23,000

PERMIT FEE: $250.00
($10 PER $1,000 + $30 FOR THE FIRST $1,000)

RECEIVED
DEC 12 2012
Dept. of Building Inspections
City of Portland Maine

The designer shall be the responsible party for this application. Download a new copy of this application at www.portlandmaine.gov/fire for every submittal. Submit all plans in electronic PDF in addition to readable 11 ½ x 17s to the Building Inspections Department, 389 Congress Street, Room 315, Portland, Maine 04101.

Prior to acceptance of any fire alarm system, a complete commissioning and acceptance test must be coordinated with all fire system contractors and the Fire Department, and proper documentation of such test(s) provided.

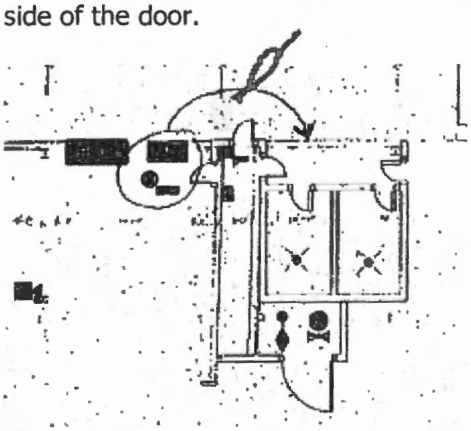
All installation(s) must comply with the *City of Portland Technical Standard for Signaling Systems for the Protection of Life and Property*, available at www.portlandmaine.gov/fire .

Applicant signature: Robin Russell Date: 12-9-12

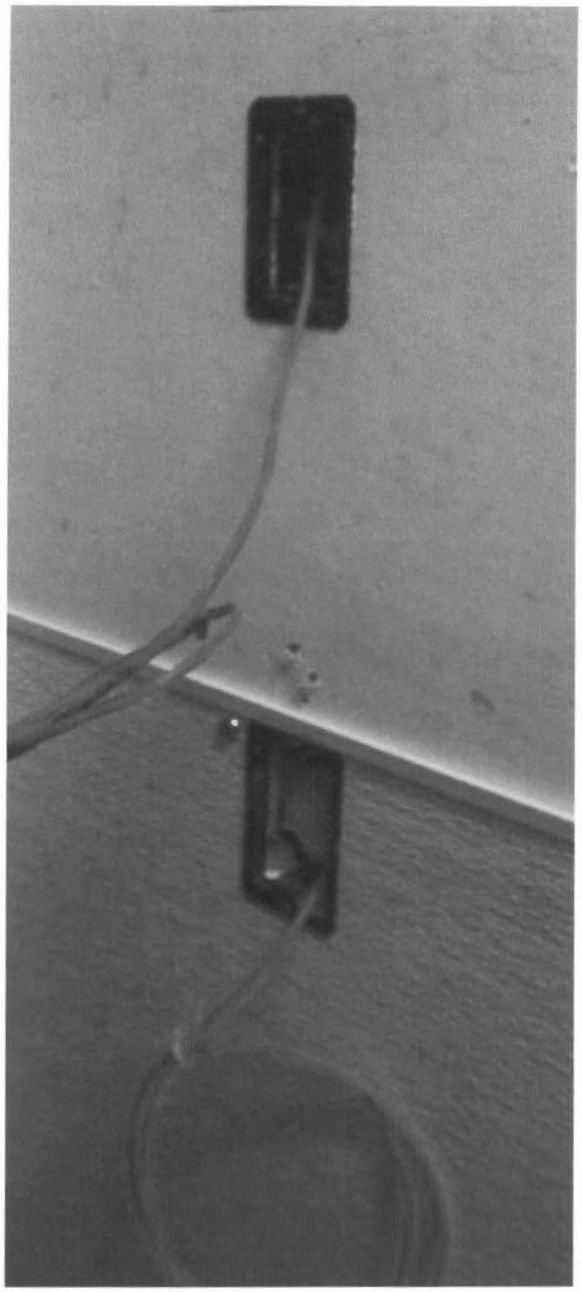
Benjamin Wallace - RE: 390 Commercial Street - Hobson's Pier - permit 201265621

From: Benjamin Wallace
To: Robin Russell
Date: 12/21/2012 7:09 PM
Subject: RE: 390 Commercial Street - Hobson's Pier - permit 201265621
CC: Chris Pirone; Jason Gervais; Jeanie Bourke; Timothy C. Parent
Attachments: Benjamin Wallace.vcf

Robin,
I'm going to approve a conditional fire alarm permit but beware the floor layout isn't as your floor plan showed. The South end of the second floor and a number of the spaces off the corridor have partitioned rooms within them. Also the left end of the studio space as you enter is partitioned off and the wall the plan shows in the studio has been removed so it's wide open. The dimension of the open studio space is approximately 60 x 32. 60 candela strobes at each end should do the open space but you'll still need strobes in the adjacent partitioned space and adjust for the partitioned spaces in the rest of the floor.
I want to see the fire alarm control panel get installed in the in the cross corridor on the South side of the North stair by the bathrooms. It's about the only space suitable for it. Be careful with placement of the FACP smoke detector. If they put FIRE ALARM signage on the door from the stair into the corridor we'll allow them to do away with the annunciator given the panel's proximity. Install an exterior strobe over the Knox box on the latch side of the door.



The walls of the stairs are required to be 1-hour fire rated. They have a number of deficiencies in the fire rating they will have to fix but I think the openings that were cut into the wall at the bottom of those stairs to install the fire alarm devices appears to also violate the fire barrier as well. There weren't even back boxes.



Thanks,
Ben

Lt. Benjamin Wallace Jr.
Fire Prevention Officer
Portland Fire Department
380 Congress Street
Portland, Maine 04101
(207)874-8400
wallaceb@portlandmaine.gov

>>> Benjamin Wallace 12/20/2012 2:51 PM >>>
Hi again,
The owner has submitted conflicting floor plans. As you can see from the attached plans that was submitted with the change of use permit the corridor appears to continue to the other end of the second floor with rooms

to each side and neither plan shows the correct configuration of the proposed Zumba space according to a discussion Jeanie and I had with the engineer the owner hired to provide a code analysis. I'm not sure which plan is correct but in any case neither are to scale so they'll need to have scalable architectural quality plans drawn up for the building and you can add you fire alarm design to those.
Thanks,
Ben

Lt. Benjamin Wallace Jr.
Fire Prevention Officer
Portland Fire Department
380 Congress Street
Portland, Maine 04101
(207)874-8400
wallaceb@portlandmaine.gov

>>> Robin Russell <RobinRussell@ProtectionOne.com> 12/20/2012 10:09 AM >>>

Ben,

I've attached updated drawings with the candela ratings for the strobes and horn/strobes. All the 1st horn/strobes are ceiling mounted except in smaller rooms. The 1st ceilings are all suspended; the building owner verified that they do not wash down the ceiling. There is no manufacturer that produces a weatherproof ceiling mounted horn-strobe, I've researched this in the past. In similar applications we have found that ceiling mounted horn-strobes work better in this environment in lieu of wall mounted weatherproof horn-strobes.

Unfortunately the panel would be very difficult to install in the stairwell. Please notice the new location for of the FACP, smoke and document box. It's located next to an existing electrical panel; this area is dry according to the owner.

The spaces that don't have notification devices are unoccupied at this time; the intend would be to satisfy the notification requirements before occupancy.

The drawings are what was provided by the customer; I have inputted horizontal dimensions; if this does not suffice I will have to ask the owner to have scaled drawings produced.

Let me know if you have other concerns.

Thanks

www.protection1.com

Protection1 SECURITY SOLUTIONS

NICET

Robin Russell
Executive Commercial Security Consultant
Portland ME Branch

From: Benjamin Wallace [mailto:wallaceb@portlandmaine.gov]
Sent: Thursday, December 20, 2012 9:01 AM
To: Robin Russell
Cc: Jason Gervais
Subject: 390 Commercial Street - Hobson's Pier - permit 201265621
Importance: High

Direct: 207-347-5327
Fax: 207-772-7355
rrussell@protectionone.com

Hi Robin,

A couple questions about this job.

1. Is the first floor fish processing suitable for interior horn/strobes or is it a damp location?
2. The first floor plan shows the FACP and smoke detector open to the rest of the space. Again I want to be sure the space is suitable for the panel and smoke detector installation or they're moved to a space that is suitable for them. One option would be to install them at the front door with the pull station in lieu of the annunciator.
3. There are no candella ratings indicated on any of the strobes so I have no way to verify the spacing. Please be sure to include the rating of the strobes on the floor plans and wiring diagrams. Also the plans need to be to scale for me to verify the spacing so that's required as well.
4. Are the spaces that don't have strobes private offices?

Thanks,
Ben

Lt. Benjamin Wallace Jr.
Fire Prevention Officer
Portland Fire Department
380 Congress Street
Portland, Maine 04101
(207)874-8400
wallaceb@portlandmaine.gov

Fire Alarm System 390 Commercial Street, Portland, Maine 04101

SCOPE of WORK: The submittal for this permit is to install a fire alarm system to monitor the building sprinkler system. See scope below:

- Install Silent Knight addressable fire alarm control in 1st Floor space closest to Commercial Street near sprinkler riser
- Install smoke detector above panel
- Install monitor modules for wiring to sprinkler water flow and tamper switches
- Install fire annunciator at 390 Commercial Street entrance closest to Commercial Street
- Install fire alarm notification in all occupied spaces; notification will be installed in empty spaces as they become occupied
- Install document box at fire alarm panel

SILENT KNIGHT

5808 Calculations
Version 12.30.10

Project Name: Hobson's Pier
Project ID: 390 Commercial Streey Calculatic
Prepared By: Robin Russell
Date: 12/9/2012

Standby Hours: 24
Alarm Mins: 5
Derating Factor: 1.2
Voltage Drop Warning Threshold %: 10

Panel ID: 5808
Location: 390 Commercial Street

Model: 5808 Add. Fire Alarm Control Panel
Volts: 24 VDC

Max NAC Current: 3.0 Amps
Max Panel Current: 6.0 Amps

Ckt.#	Circuit Name	Qty	Current Draw Standby	Current Draw Alarm	Wire AWG & Type	Ohms Per 1000 Ft.	Length(ft) One-Way	Actual Ohms	Volts @ EOL	%Drop
5808	5808 CTRL Panel	1	0.170	0.325						
SK	Photo, Photo-T	1	0.000	0.000						
SK	Ion		0.000	0.000						
SK	Heat, Heat-HT		0.000	0.000						
SK	Heat ROR		0.000	0.000						
SK	Beam, Beam-T		0.000	0.000						
SK	Duct		0.000	0.000						
SK	Acclimate		0.000	0.000						
SK	Control		0.000	0.000						
SK	Relaymon		0.000	0.000						
SK	Control-6		0.000	0.000						
SK	Monitor, Minimon	1	0.000	0.000						
SK	Monitor-2	1	0.001	0.001						
SK	Monitor-10		0.000	0.000						
SK	Pull-SA, Pull-DA	1	0.000	0.000						
SK	Relay		0.000	0.000						
SK	Relay-6		0.000	0.000						
SK	Zone		0.000	0.000						
SK	Zone-6		0.000	0.000						
SK	Isolator Module		0.000	0.000						
SSB224BI	Isolator Base		0.000	0.000						
B200SR	Sounder Base		0.000	0.000						
SSB224RB	Relay Base		0.000	0.000						
SSRTS151	Magnetic Remote Test		0.000	0.000						
SSRTS151KEY	Key Activated Test		0.000	0.000						
SSRA100Z	Remote LED		0.000	0.000						
5860	LCD Remote Annunc	1	0.020	0.025						
5824	Serial/Parallel Module		0.000	0.000						
5496	Power Expander		0.000	0.000						
5895XL	Power Expander		0.000	0.000						
5865-4	LED Annunciator (4G)		0.000	0.000						
5865-3	LED Annunciator (3G)		0.000	0.000						
5880	LED Driver Module		0.000	0.000						
5883	Relay Module		0.000	0.000	#14 Solid	2.52	2	0.01	20.39	0.06%
NAC #1	Notification Appl Circuit		0.000	1.514	#14 Solid	2.52	1	0.01	20.39	0.03%
NAC #2	Notification Appl Circuit		0.000	1.156	#14 Solid	2.52	1	0.00	20.40	0.02%
NAC #3	Notification Appl Circuit		0.000	0.955	#14 Solid	2.52	1	0.00	20.40	0.02%
NAC #4	Notification Appl Circuit		0.000	0.787	Total Alarm Current (Amps)					
	Total Standby Current (Amps)		0.192	4.764	Alarm Time In Minutes / 60		(5 Mins)			
	Standby Time In Hours		24	0.083	Total Alarm AH Required					
	Total Standby AH Required		4.602	0.397						
	Total Combined AH Required		5.00							
	Multiply By The Derating Factor		1.20							
	Minimum Battery AmpHours Required		6.00							

N/A

Command Shortcuts

Configure Circuits

Print Page

Protection 1 Branch 11660	System Outputs		
10 Manual Drive, Portland, ME 04103 PH# 1-800-310-5011	Control Unit Annunciation	Notification	Safety Control

System Inputs

	Actuate common alarm signal Indicator	Actuate audible alarm system	Actuate common supervisory signal Indicator	Actuate audible supervisory signal	Actuate common trouble signal Indicator			Actuate Basment floor evacuation signals	Actuate 1st Floor Evacuation Signals	Actuate 2nd Floor Evacuation Signals						Transmit fire alarm signal to supervising station	Transmit supervisory signal to supervising	Transmit trouble signal to supervising station
System Pull Stations	X	X							X	X						X		
System Smoke Detectors	X	X							X	X						X		
Sprinkler Water Flow	X	X							X	X						X		
Sprinkler Gate Valve Tamper			X	X													X	
FACP AC Loss					X	X												X
FACP Low Battery					X	X												X
FACP Ground Fault					X	X												X
Phone Line #1 Fail					X	X												X
Phone Line #2 Fail					X	X												X
Hobson's Pier, Inc.																		
390 Commercial Street																		
Portland, Maine 04101																		

SYSTEM SENSOR
advanced ideas. advanced solutions.

Job Name: Hobson's Pier Fire Alarm S...

Hobson's Pier, Inc.
390 Commercial Street
Portland, ME 04101
AHJ: City of Portland Fire Department

Prepared By:

Robin Russell 110826
Protection 1
10 Manuel Drive
Portland, ME 04103
(207) 347-5327

Circuit Information

Panel Name: 5808 Silent Knight
Circuit Name: NAC#1
Starting Voltage: Starting Voltage = 20.4

(1.5) amp circuit
Class B @ 14 AWG
DC 24 - volt Supply

Type and Model	Candela	Current (Amps)	Tone and Volume	Dist from last device	Dist from source (ft)	12	14	16	18
Horn/Strobe PC2R	95	0.194	Temporal, High	20	20	20.282	20.212	20.101	19.924
Strobe SR	15	0.066		30	50	20.128	19.968	19.711	19.305
Strobe SR	15	0.066		30	80	19.981	19.736	19.342	18.717
Horn/Strobe PC2R	95	0.194	Temporal, High	30	110	19.843	19.516	18.993	18.162
Horn/Strobe PC2R	95	0.194	Temporal, High	40	150	19.690	19.273	18.606	17.546
Horn/Strobe PC2R	95	0.194	Temporal, High	60	210	19.507	18.983	18.144	16.811
Horn/Strobe PC2R	95	0.194	Temporal, High	60	270	19.371	18.767	17.800	16.264
Horn/Strobe P2R	75	0.176	Temporal, High	50	320	19.297	18.649	17.612	*
Horn/Strobe PC2R	95	0.194	Temporal, High	50	370	19.258	18.587	17.513	*
Total current/amps 1.472	Total Dist:370				voltage drop	1.142	1.813	2.887	*

SYSTEM SENSOR
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Circuit Information

Panel Name: 5808 Silent Knight
Circuit Name: NAC #2
Starting Voltage: Starting Voltage = 20.4

(1.5) amp circuit
Class B @ 14 AWG
DC 24 - volt Supply

Type and Model	Candela	Current (Amps)	Tone and Volume	Dist from last device	Dist from source (ft)	12	14	16	18
Horn/Strobe PC2R	95	0.194	Temporal, High	220	220	19.172	18.452	17.298	*
Strobe SR	15	0.066		30	250	19.028	18.223	16.934	*
Horn/Strobe PC2R	95	0.194	Temporal, High	50	300	18.802	17.863	16.361	*
Horn/Strobe P2R	75	0.176	Temporal, High	40	340	18.652	17.625	*	*
Horn/Strobe PC2R	95	0.194	Temporal, High	40	380	18.530	17.432	*	*
Horn/Strobe P2R	75	0.176	Temporal, High	40	420	18.439	17.288	*	*
Horn/Strobe P2R	95	0.194	Temporal, High	25	445	18.400	17.226	*	*
Horn/Strobe P2R	95	0.194	Temporal, High	50	495	18.361	17.164	*	*
Total current/amps 1.388	Total Dist:495				voltage drop	2.039	3.236	*	*

SYSTEM SENSOR
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Circuit Information

Panel Name: 5808 Silent Knight
Circuit Name: NAC #3
Starting Voltage: Starting Voltage = 20.4

(1.5) amp circuit
Class B @ 14 AWG
DC 24 - volt Supply

Type and Model	Candela	Current (Amps)	Tone and Volume	Dist from last device	Dist from source (ft)	12	14	16	18
Horn/Strobe P2R	15	0.079	Temporal, High	50	50	20.215	20.107	19.933	19.657
Horn/Strobe P2R	75	0.176	Temporal, High	30	80	20.114	19.946	19.677	19.250
Strobe SR	15	0.066		30	110	20.034	19.819	19.475	18.928
Strobe SR	15	0.066		10	120	20.010	19.781	19.414	18.832
Horn/Strobe P2R	75	0.176	Temporal, High	50	170	19.903	19.611	19.144	18.402
Horn/Strobe P2R	15	0.079	Temporal, High	40	210	19.846	19.520	18.999	18.172
Strobe SR	15	0.066		10	220	19.835	19.503	18.971	18.127
Horn/Strobe P2R	15	0.079	Temporal, High	90	310	19.758	19.381	18.778	17.820
Strobe SR	15	0.066		40	350	19.737	19.348	18.724	17.735
Strobe SR	15	0.066		10	360	19.734	19.344	18.718	17.724
Total current/amps 0.919	Total Dist:360				voltage drop	0.666	1.056	1.682	2.676

SYSTEM SENSOR
advanced ideas, advanced solutions

Circuit Information

Panel Name: 5808 Silent Knight
Circuit Name: NAC #4
Starting Voltage: Starting Voltage = 20.4

(1.5) amp circuit
Class B @ 14 AWG
DC 24 - volt Supply

Type and Model	Candela	Current (Amps)	Tone and Volume	Dist from last device	Dist from source (ft)	12	14	16	18
Horn/Strobe P2R	75	0.176	Temporal, High	260	260	19.513	18.992	18.157	16.833
Horn/Strobe P2R	15	0.079	Temporal, High	20	280	19.459	18.906	18.021	16.615
Horn/Strobe P2R	75	0.176	Temporal, High	40	320	19.363	18.754	17.779	16.231
Strobe SR	15	0.066		30	350	19.313	18.674	17.652	16.029
Horn/Strobe P2R	75	0.176	Temporal, High	80	430	19.199	18.495	17.366	*
Horn/Strobe P2R	75	0.176	Temporal, High	90	520	19.136	18.393	17.205	*
Total current/amps 0.849	Total Dist:520				voltage drop	1.264	2.007	3.195	*

SILENT KNIGHT
by Honeywell

IntelliKnight® 5808 Single Loop Addressable Fire Alarm Control System

The convenience of an addressable fire alarm control panel in a cost-effective easy to use package.

IntelliKnight Model 5808 is a 127 point class leading single loop addressable fire alarm control/communicator system. 5808 provides you with the revolutionary value and performance of addressable sensing technology combined with exclusive, built-in digital communication, distributed intelligent power, easy to use interface. Powerful features such as drift compensation and maintenance alert are delivered in this powerful FACP from Silent Knight.

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

Description

The basic 5808 system can be enhanced by adding modules such as 5860 remote annunciator, 5824 serial/parallel printer interface module (for printing system reports), and 5496 intelligent power module. 5808 supports Hochiki or SK protocol devices. 5808 also features a powerful built-in dual line fire communicator that allows for reporting of all system activity to a remote monitoring location.

Features

- Built-in support for up to 99 SK detectors *and* 99 SK modules.
- Built in support for 127 Hochiki SD devices.
- Up to 125 zones and 125 output groups.
- Uses standard wire—no shielded or twisted pair required
- Built-in digital communicator.
- Central station reporting by point or by zone
- Supports Class B (Style 4) and Class A (Style 6 or 7) configuration for SLC.
- Distributed, intelligent power.
- Drift compensation.
- 13 pre-programmed output cadences, (including ANSI-3.41), and 4 programmable outputs.
- Notification circuits can be configured as 2 Class A (Style Z) or 4 Class B (Style Y), or auxiliary power for resettable, constant, or door holder power.
- Built-in annunciator with 80-character LCD display.
- RS-485 bus provides communication to system accessories.
- Built-in RS-232 and USB interface for programming via a PC.
- Upload or download programming, event history, or detector status via remote or direct connection.
- Improvements in SKSS deliver five times faster upload/downloads.
- Built-in synchronization for appliances from AMSECO, Gentex®, Faraday, System Sensor®, and Wheelock®.
- One Form C trouble relay rated at 2.5A at 27.4 VDC and two Form C programmable relays rated at 2.5A at 27.4 VDC.

Model 5808

- Programmable date setting for Daylight Saving Time
- Plex-2 door option combines a dead front cabinet door with a clear window, limiting access to the panel while providing single button operation of the reset and silence functions.

  Integrated dead front panel protects operator from exposure to electrical components.
- The FACP enclosure features a Plexiglass® viewing window to protect annunciator.
- Acknowledge function allows operator to keep track of event status.

Installation

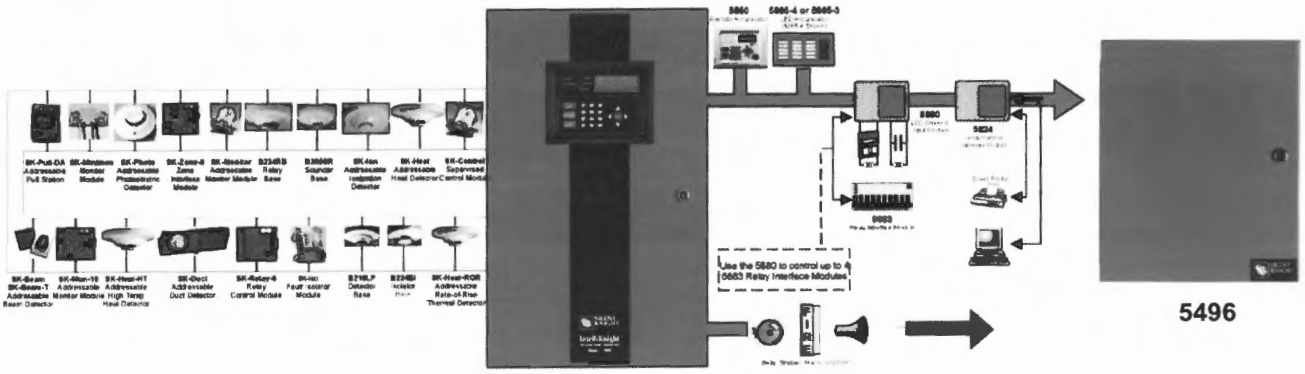
The 5800 can be surface or flush mounted.

Compatibility

The 5808 SLC supports multiple device types of the *same* protocol:

- SK (System Sensor)
- Hochiki SD

You cannot mix SD and SK devices on a FACP.



5808

5496

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,power-limited

Battery Charging Capacity: 7.0-35 AH

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
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.
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

SILENT KNIGHT
by Honeywell

MADE IN AMERICA

350386 Rev. H

SILENT KNIGHT
by Honeywell

5860 Remote Annunciator

Bring the power to control an IntelliKnight fire alarm control panel to every area within your facility.

Now you can operate and program your IntelliKnight system from up to eight locations throughout your facility. The 5860 remote annunciator provides the same advanced, easy-to-use interface found on the IntelliKnight panel's built-in annunciator. The 80-character display and ergonomically designed keypad allow for simple and error-free system operation. All operations—including reset, silence, detector status checking, fire drill, and programming—are identical.

Access to the system is through a firefighter's key or an access code. For security, a special installation code is needed for programming functions. The 5860 connects to the IntelliKnight panel via the RS-485 system bus. Wire runs can be up to 6000 feet from the panel.

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

Description
Features include an 80-character backlit LCD providing easy-to-understand system messages. The annunciator is ergonomically designed with over-sized buttons for the most frequently used features, like Reset and Silence.

In addition to status messages displayed on the LCD, there are five LEDs for alarm, supervisory, trouble, silence, and AC power status.

The annunciator is available in gray to match virtually any decor and red for applications where the annunciator must stand out. The annunciator enclosure can be surface or flush mounted. A trim ring kit is available for surface mounting.

Features
- 80-character backlit LCD display (4 lines with 20 characters on each line)
- Tactile and audible feedback
- Accepts user codes or fire fighter's key
- Larger keypad buttons for system reset and silence
- Install up to eight 5860s per FACP
- Available in red or light gray
- Support for simultaneous use of multiple 5860s
- RS-485 interface to panel
- Operation and appearance is identical to 5860 built-in annunciator
- On-board piezo sounder audibly indicates alarms, troubles, and supervisories
- Five status LEDs for alarm, supervisory, trouble, silence and AC power conditions
- Wiring lengths up to 6000 ft. from the FACP (depending on wire gauge and number of devices on SBUS)
- UL listed, complies with NFPA 72
- CSFM approved

Electrical Specifications
Operating Voltage: 24 VDC

Standby Current: 20 mA max

Alarm Current: 25 mA

Wiring Distance: 6,000 max. from FACP (depending on wire gauge and number of devices on the SBUS)

Max Per System: 8

Mechanical Specifications
Physical 9.1" W x 7.4" H x 1.5" D (23.1 W x 18.8 H x 3.8 D cm)

Shipping Weight: 2.8 lbs (1.3 kg)

Color
5860R: Red
5860: Gray

5860

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

Humidity: 10% – 93% non-condensing

Compatibility
The 5860 is compatible is the following FACP's:
- IntelliKnight 5820XL FACP
- IntelliKnight 5808 FACP
- IntelliKnight 5700 FACP

Approvals/Listings
NFPA 72; UL Listed;
CSFM 7170-0559: 135;
MEA 429-92-E Vol. IX;
FM Approved

5860 Remote Annunciator

Engineering Specifications

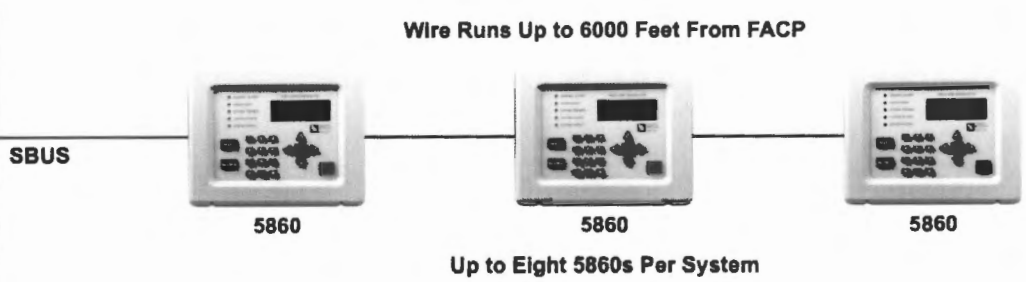
The main control must have a built-in annunciator and must support up to eight remote annunciators. Remote annunciators shall have the same control and display layout so as to match the appearance of the built-in annunciator. Remote annunciators shall be available in two colors, red or light gray.

Remote annunciators shall have identical functionality and operation as the built-in annunciator. All annunciators must have an 80-character LCD display and must feature five LEDs for: General Alarm, Supervisory, System Trouble, System Silence, and System Power.

All controls and programming keys are silicone mechanical type with tactile and audible feedback. Keys have a travel of .040 inches. No membrane style buttons will be permissible.

The annunciator must be able to silence and reset alarms through the use of a code entered on the annunciator keypad or by using a firefighter's key. The annunciator must have two levels of user codes that will limit the operating system programming to authorized individuals. The control panel must allow all annunciators to accommodate multiple user input simultaneously.

Compatible IntelliKnight FACP



Ordering Information

5860R	Remote Annunicator four line LCD annunciator with 20 characters per line. Red.
5860	Remote Annunciator.Four line LCD annunciator with 20 characters per line. Gray.

Accessories

5860TR	Red Trim Ring for surface mounting.
5860TG	Gray Trim Ring for surface mounting.

SILENT KNIGHT by Honeywell

MADE IN AMERICA

FORM# 350224 Rev E

SILENT KNIGHT
by Honeywell

SK-Minimon

Intelligent Mini Monitor Module

The SK-Minimon addressable mini monitor modules for use with Silent Knight IntelliKnight fire alarm control panels (FACP). The SK-Minimon is designed to be used with pull stations, water flow switches, and other applications requiring dry contact alarm initiation devices.

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

Description

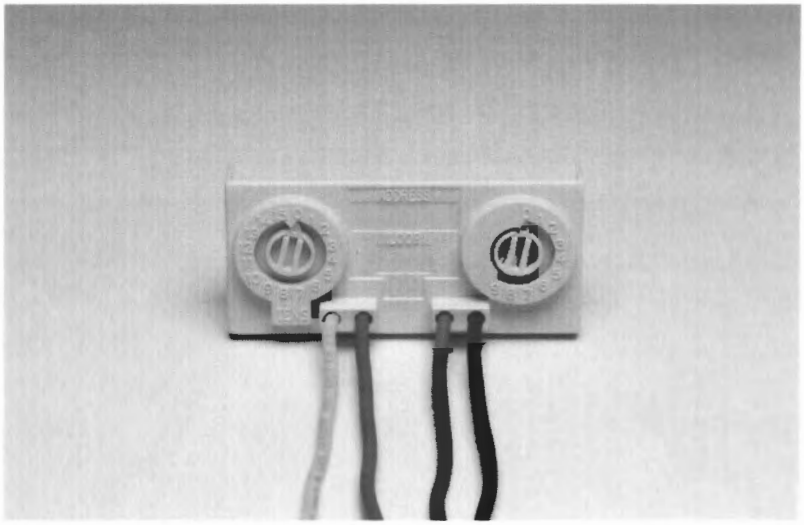
The SK-Minimon is an addressable monitor modules for use with the IntelliKnight fire alarm control panels (FACPs). The SK-Minimon acts as an interface to contact devices, such as waterflow switches and pull stations.

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

The SK-Minimon can be mounted in a single gang junction box directly behind the monitored device. Its small size and light weight allow it to be installed without rigid mounting requirements.

Features

- Single contact monitor
- SK-Minimon support for Class B (Style B) contact monitor wiring
- Small and lightweight size allows for flexible mounting options
- Rotary address switches for fast installation
- UL listed



SK-Minimon

Specifications

Electrical
Standby Current: 400 uA max @ 24 VDC with comm.
Voltage Range: 15 - 32 VDC
End of Line Resistance: 47 k Ohms

Physical
Dimensions:
2.75" W x 1.3" H x 0.5" D
Weight: 1.2 oz (37 g)

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

Humidity:
10% – 93% non-condensing

Compatibility

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

5700
5808
5820XL

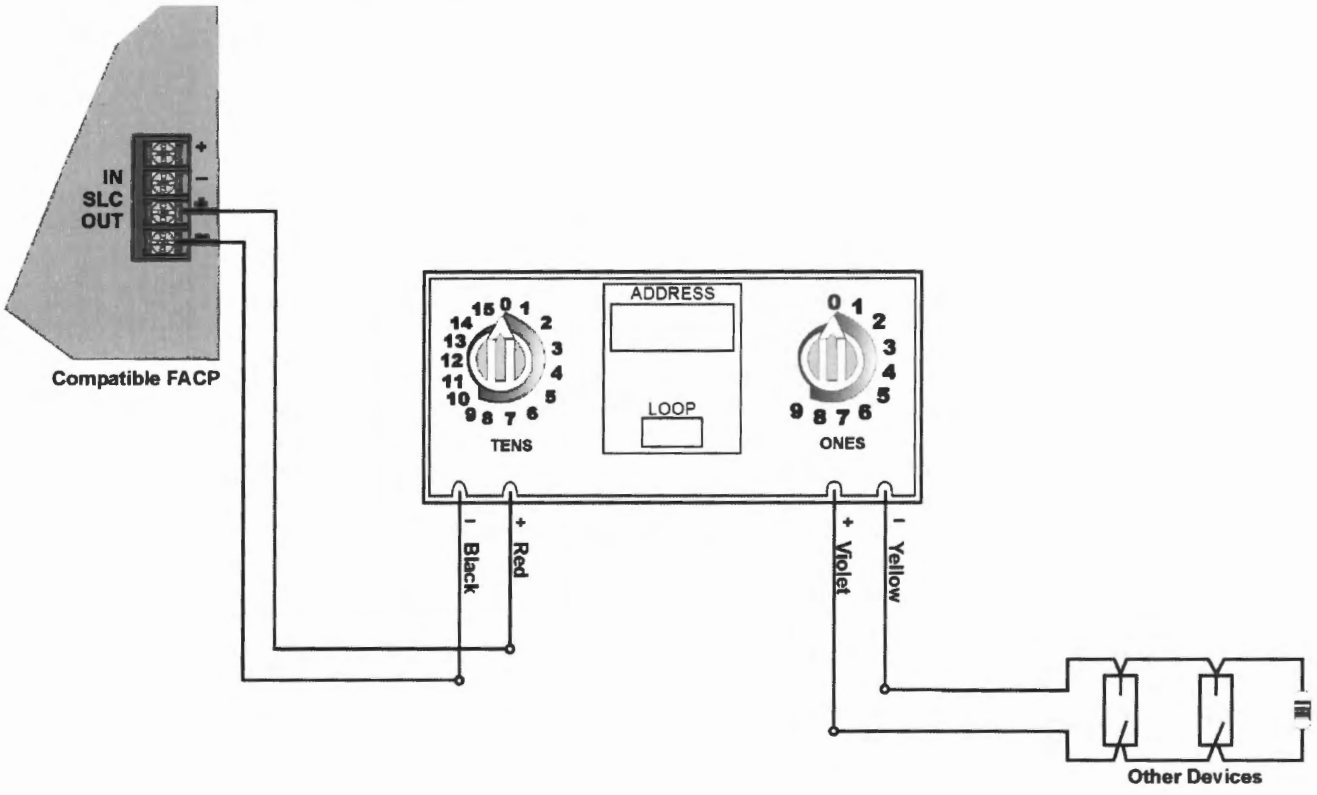
Approvals
UL approved
CSFM
FM Approved

SK-Minimon
Intelligent Monitor Module

Engineering Specifications

The contractor shall furnish and install where indicated on the plans, addressable monitor modules Silent Knight SK-Minimon. The modules shall be UL listed and compatible with Silent Knight's IntelliKnight FACPs. The device shall be capable of Styles A and B supervised wiring to the load device.

The SK-Minimon shall be installed inside a single gang junction box directly behind the monitored unit.



Wiring the SK-Minimon

SILENT KNIGHT
by Honeywell

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MADE IN AMERICA

FORM# 350133 Rev B

SILENT KNIGHT
by Honeywell

SK-Monitor-2

Intelligent Dual Monitor Module

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

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

Description

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

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

Features

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

SK-Monitor-2

Installation

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

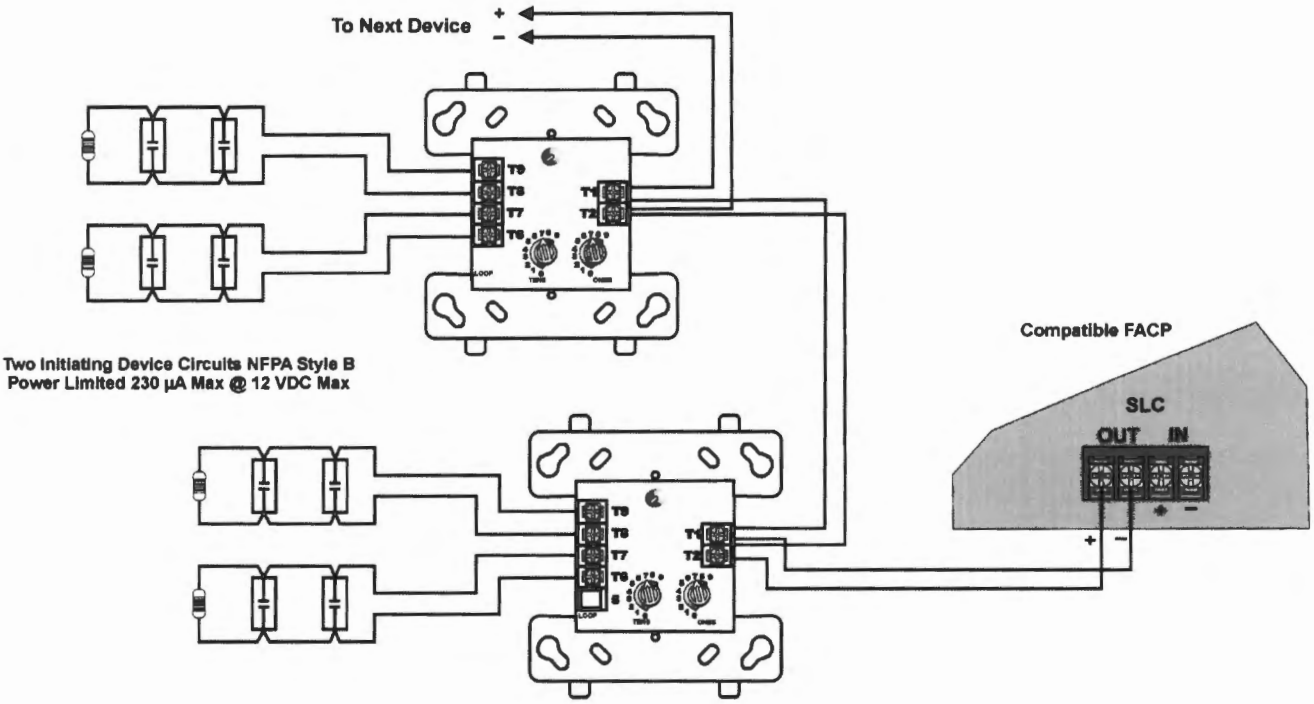
Compatibility

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

5700
5808
5820XL

Model SK-Monitor-2

Intelligent Dual Monitor Module



Wiring SK-Monitor-2 Modules

Specifications

Physical

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

Shipping Weight: 6.3 oz (196 g)

Electrical

Operating Voltage: 15 – 32 VDC

Current Draw (LED on): 6.4 mA max

Operating Current (LED flashing): 750 µA

End-of-Line Resistance: 47K Ω

Max IDC wiring resistance: 1,500Ω

SLC Line Loop Resistance: 40Ω max.

Environmental

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

Humidity: 10% – 93% non-condensing

Accessories

SMB500 4" Square Surface Mount Electrical Box

SILENT KNIGHT by Honeywell

MADE IN AMERICA

FORM# 350124 Rev B

SK-Photo and SK-Photo-T

Intelligent Photoelectric Smoke Sensors

The SK-Photo is a photoelectric smoke detector and the SK-Photo-T is a photoelectric smoke detector with thermal. These plug in smoke detectors, with integral communication, provide features that surpass conventional detectors and are for use with Silent Knight IntelliKnight Fire Alarm Control Panels (FACPs).

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

Description

SK-Photo and SK-Photo-T are plug-in type smoke sensors that combine a photoelectric sensing chamber with addressable analog communications. Point ID capability allows each detector's address to be set with rotary address switches, providing exact detector locations for selective maintenance when chamber contamination reaches unacceptable levels.

SK-Photo and SK-Photo-T have a unique optical sensing chamber that is engineered to sense smoke produced by a wide range of combustion sources. In the SK-Photo-T, dual electronic thermistors add 135°F (57°C) thermal technology to maximize detection.

Features

- Sleek, low-profile design
- Base included
- Reliable analog communications for trouble-free operation
- Age resistant polymer housing
- Dual electronic thermistor design on the SK-Photo-T
- Superior EMI resistance for reliability
- Simple field cleaning for code compliance
- Variety of mounting options to meet any application
- Dual LED indicators for 360° visibility
- Detector transmits signal to indicate maintenance is required
- Optional remote LED annunciator (System Sensor® PN RA100Z)
- Plug-in mounting provides ease of installation
- Tamper-proof feature available on mounting bases
- Listed for use in duct applications
- Rotary address switches for fast installation
- UL Listed
- FM Approved

Specifications

Physical

Height: 2.0" (5.0 cm)

Diameter: 4.1" (10.4 cm)

Shipping Weight: 5.2 oz. (147 g)

Electrical

Operating Voltage: 15–32 VDC

Standby Current:

300 µA @ 24 VDC Maximum

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

Environmental

Operating Temperature

SK-Photo: 32° – 120°F (0°C – 49°C)

SK-Photo-T: 32° – 100°F (0°C – 38°C)

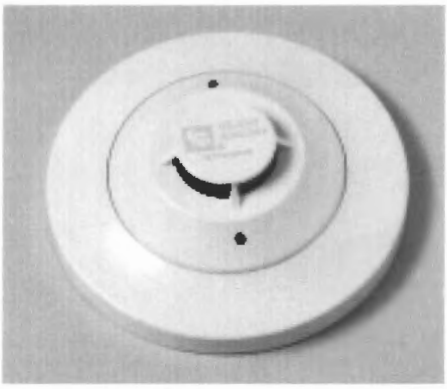
Humidity: 10% – 93% non-condensing

Other Ratings

SK-Photo-T Thermal: Fixed temperature set point 135°F (57°C)

Velocity: 0 – 4000 fpm (0 – 20 m/sec)

SK-Photo Insect Screen Hole Size: 0.016" (0.41 mm) nominal



SK-Photo (Base included)

Compatibility

The SK-Photo and SK-Photo-T are compatible with the following IntelliKnight FACPs:

5700
5808
5820XL

SK-Photo and SK-Photo-T are compatible with the following detector bases:

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

SILENT KNIGHT
by Honeywell

Model SK-Photo and SK-Photo-T Intelligent Photoelectric Smoke Sensors

Engineering Specifications

The contractor shall furnish and install where indicated on the plans, Intelligent photoelectric smoke sensors Silent Knight SK-Photo or SK-Photo-T with thermal. The combination detector head, and twist-lock base, shall be UL listed and compatible with Silent Knight's IntelliKnight fire control panels.

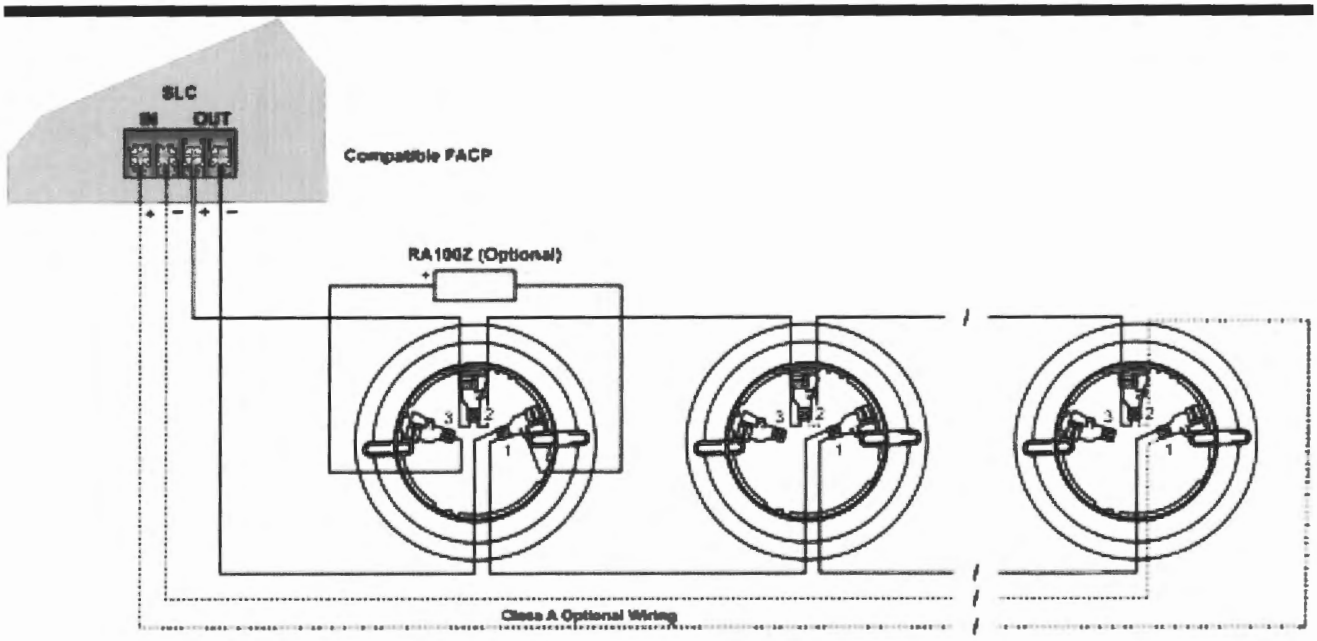
The base shall permit direct interchange with SK-Photo or SK-Photo-T. Base shall be the appropriate twist-lock base part number B210LP (included).

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

The calibration of the detector shall be capable of being selected and measured by the control panel without the need for external test apparatus.

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

The SK-Photo shall automatically perform a functional test of the detector. The test method shall simulate effects of products of combustion in the chamber to ensure testing of detector circuits.



Wiring SK-Series Detector Mounting Bases

SILENT KNIGHT by Honeywell

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MADE IN AMERICA

FORM# 350118 Rev A,

SILENT KNIGHT®
by Honeywell

SK-Pull-SA and SK-Pull-DA

Intelligent Pull Stations

The SK-Pull-SA and SK-Pull-DA are a single action or dual action addressable fire alarm pull station for use with Silent Knight's IntelliKnight fire control panel. Extremely easy to operate, the SK-Pull-DA and SK-Pull-SA provide a fast and practical means of manually initiating a fire alarm signal. The IntelliKnight panel recognizes each manual pull station by its specific address saving precious seconds in determining the location of an alarm.

For more information about the IntelliKnight system, or to locate 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®
- Reliable analog communications for trouble-free operation
- Braille text on station handle
- Handle latches in down position and the word *Activated* appears, clearly indicating the station has been pulled
- Rotary address switches for fast installation
- UL Listed, including UL 38, Standard of Manually Actuated Signaling System

SK-Pull-SA

SK-Pull-DA

Compatibility

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

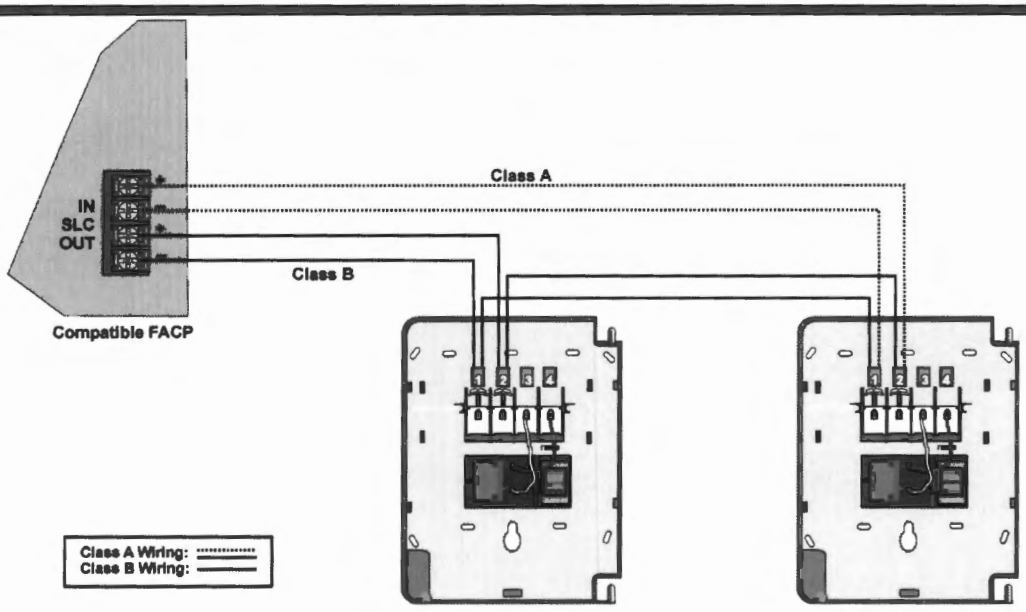
5600
5700
5808
5820XL

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

Engineering Specifications

The contractor shall furnish and install where indicated on the plans, Addressable Pull Stations, Silent Knight model SK-Pull-SA single action pull station or SK-Pull-DA, dual action pull station.

SK-Pull-DA or SK-Pull-SA meet the ADAAG controls and operating mechanisms guidelines, and the ADA requirements for a 5 lb. maximum pull force to activate the pull station.



Wiring SK-Pull-SA & SK-Pull-DA Pull Stations

Specifications

Physical

Height: 5.5" (14 cm)

Width: 4" (10.2 cm)

Depth: 5.4 oz. (3.7 cm)

Housing Material: LEXAN polycarbonate resin

Bi-Colored LED:
Blinking Green: Normal

Steady Red: Alarm

Switch: Single pole, single throw (SPST) normally open (N/O) switch which closes upon activation of the pull station

Electrical

Operating Voltage: 15–32 VDC

Average Operating Current (LED flashing): 300 µA

Wire Gauge: Up to 12 AWG (3.1 mm^2)

Environmental

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

Humidity: 10% – 93% non-condensing

Accessories

BG-TR	Optional trim ring.
SB-I/O	Surface backbox

SILENT KNIGHT by Honeywell

MADE IN AMERICA

FORM# 350135 Rev A

SYSTEM SENSOR

Indoor Selectable-Output Strobes and Horn Strobes for Ceiling Applications

SpectrAlert® Advance audible visible notification products are rich with features guaranteed to cut installation times and maximize profits.

SPECTRAlert ADVANCE from System Sensor

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 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 ceiling units
- Mounting plate shorting spring checks wiring continuity before device installation
- Electrically Compatible with legacy SpectrAlert devices
- Compatible with MDL sync module
- Listed for ceiling or wall mounting

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, ceiling-mount 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, making installations fast and foolproof while virtually eliminating costly and time-consuming ground faults.

To further simplify installation and protect devices from construction damage, SpectrAlert Advance utilizes a universal mounting plate with an onboard shorting spring, so installers can test wiring continuity before the device is installed.

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

Agency Listings

SIGNALING UL LISTED
S4011 (chimes, horn strobes, horns)
S5512 (strobes)

FM APPROVED
3023572

MEA approved
MEA452-05-E

7125-1653 186 (indoor strobes)
7125-1653 188 (horn strobes, chime strobes)
7135-1653 189 (horns, chimes)

SpectrAlert Advance Specifications

Architect/Engineer Specifications

General

SpectrAlert Advance 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 × 17/8-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 411/16 × 411/16 × 21/8-inch back box. The module shall also control two Style Y (class B) circuits or one Style Z (class A) circuit. The module shall synchronize multiple zones. Daisy chaining two or more synchronization modules together will synchronize all the zones they control. The module shall not operate on a coded power supply.

Physical/Electrical Specifications

Standard Operating Temperature	32°F to 120°F (0°C to 49°C)
Humidity Range	10 to 93% non-condensing
Strobe Flash Rate	1 flash per second
Nominal Voltage	Regulated 12 DC/FWR or regulated 24 DC/FWR[1]
Operating Voltage Range[2]	8 to 17.5 V (12 V nominal) or 16 to 33 V (24 V nominal)
Input Terminal Wire Gauge	12 to 18 AWG
Ceiling-Mount Dimensions (including lens)	6.8″ diameter × 2.5″ high (173 mm diameter × 64 mm high)
Ceiling-Mount Back Box Skirt Dimensions (BBSC-2, BBSCW-2)	7.1″ diameter × 2.2″ high (180 mm diameter × 57 mm high)
Ceiling-Mount Trim Ring Dimensions (sold as a 5 pack) (TRC-HS, TRCW-HS)	6.9″ diameter × 0.35″ high (175 mm diameter × 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 Candela Range	15	123	128	66	71
	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 Candela Range	135	NA	NA	228	207
	150	NA	NA	246	220
	177	NA	NA	281	251
	185	NA	NA	286	258

UL Max. Current Draw (mA RMS), 2-Wire Horn Strobe, Standard Candela Range (15–115 cd)

	8–17.5 Volts		16–33 Volts						
DC Input	**15**	**15/75**	**15**	**15/75**	**30**	**75**	**95**	**110**	**115**
Temporal High	137	147	79	90	107	176	194	212	218
Temporal Medium	132	144	69	80	97	157	182	201	210
Temporal Low	132	143	66	77	93	154	179	198	207
Non-Temporal High	141	152	91	100	116	176	201	221	229
Non-Temporal Medium	133	145	75	85	102	163	187	207	216
Non-Temporal Low	131	144	68	79	96	156	182	201	210
FWR Input									
Temporal High	136	155	88	97	112	168	190	210	218
Temporal Medium	129	152	78	88	103	160	184	202	206
Temporal Low	129	151	76	86	101	160	184	194	201
Non-Temporal High	142	161	103	112	126	181	203	221	229
Non-Temporal Medium	134	155	85	95	110	166	189	208	216
Non-Temporal Low	132	154	80	90	105	161	184	202	211

UL Max. Current Draw (mA RMS), 2-Wire Horn Strobe, High Candela Range (135–185 cd)

	16–33 Volts					16–33 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	275	281
Non-Temporal Medium	242	259	293	299	Non-Temporal Medium	219	232	262	267
Non-Temporal Low	238	254	291	295	Non-Temporal Low	214	229	256	262

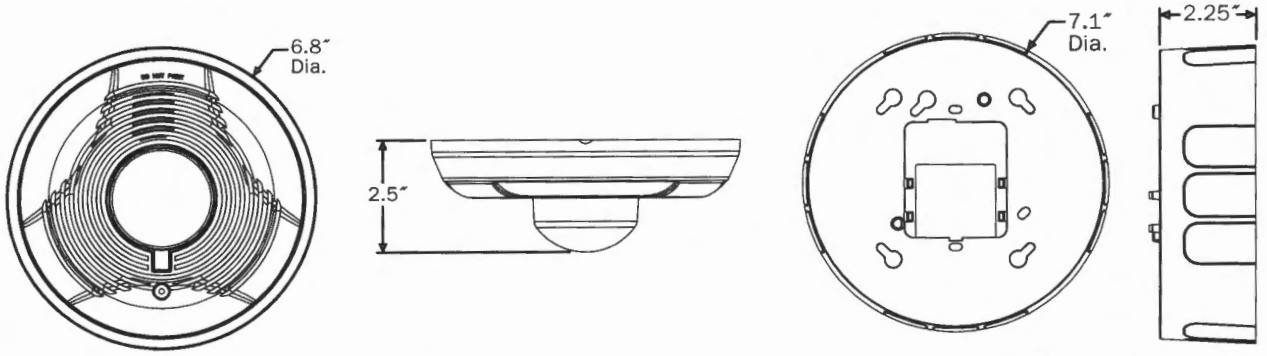
Horn Strobe Tones and Sound Output Data

Horn Strobe Output (dBA)

			8–17.5 Volts		16–33 Volts		24-Volt Nominal			
							Reverberant		Anechoic	
Switch 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†	Coded	High	82	82	88	88	93	92	101	101
8†	Coded	Medium	78	78	85	85	90	90	97	98
9†	Coded	Low	75	75	81	81	88	85	96	92

†Settings 7, 8, and 9 are not available on 2-wire horn strobes.

SpectrAlert Advance Dimensions



Ceiling-mount horn strobes

Ceiling back box skirt

SpectrAlert Advance Ordering Information

Model	Description
Ceiling Horn Strobes	
PC2R*	2-Wire Horn Strobe, Standard cd, Red
PC2RH	2-Wire Horn Strobe, High cd, Red
PC2W*†	2-Wire Horn Strobe, Standard cd, White
PC2WH*	2-Wire Horn Strobe, High cd, White
PC4R	4-Wire Horn Strobe, Standard cd, Red
PC4RH	4-Wire Horn Strobe, High cd, Red
PC4W	4-Wire Horn Strobe, Standard cd, White

Model	Description
Ceiling Strobes	
SCR	Strobe, Standard cd, Red
SCRH	Strobe, High cd, Red
SCW*	Strobe, Standard cd, White
SCWH	Strobe, High cd, White
Accessories	
BBSC-2	Back Box Skirt, Ceiling, Red
	Back Box Skirt, Ceiling, White
TRC-HS	Trim Ring, Ceiling, Red
TRCW-HS	Trim Ring, Ceiling, White

Notes:

* Add "-P" to model number for plain housing (no "FIRE" marking on cover), e.g., P2R-P.

† Add "-SP" to model number for "FUEGO" marking on cover, e.g., P2R-SP.

‡ "Standard cd" refers to strobes that include 15, 15/75, 30, 75, 95, 110, and 115 candela settings. "High cd" refers to strobes that include 135, 150, 177, and 185 candela settings.

SYSTEM SENSOR

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

AVDS00501 • 3/12

SYSTEM SENSOR

Indoor Selectable-Output Horns, Strobes, and Horn Strobes for Wall Applications

SPECTRAlert ADVANCE from System Sensor

SpectrAlert® Advance audible visible notification products 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 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 units
- Mounting plate shorting spring checks wiring continuity before device installation
- Electrically Compatible with legacy SpectrAlert devices
- Compatible with MDL sync module
- Listed for ceiling or wall mounting

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, wall-mount 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, making installations fast and foolproof while virtually eliminating costly and time-consuming ground faults.

To further simplify installation and protect devices from construction damage, SpectrAlert Advance utilizes a universal mounting plate with an onboard shorting spring, so installers can test wiring continuity before the device is installed.

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

Agency Listings

SIGNALING UL LISTED
S4011 (chimes, horn strobes, horns)
S5512 (strobes)

FM APPROVED
3023572

MEA approved
MEA452-05-E

7125-1653:186 (indoor strobes)
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 × 17/8-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 8 and 17.5 volts; 24-volt-rated notification appliance circuit outputs shall operate between 16 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 411/16 × 411/16 × 21/8-inch back box. The module shall also control two Style Y (class B) circuits or one Style Z (class A) circuit. The module shall synchronize multiple zones. Daisy chaining two or more synchronization modules together will synchronize all the zones they control. The module shall not operate on a coded power supply.

Physical/Electrical Specifications

Standard Operating Temperature	32°F to 120°F (0°C to 49°C)
Humidity Range	10 to 93% non-condensing
Strobe Flash Rate	1 flash per second
Nominal Voltage	Regulated 12 DC/FWR or regulated 24 DC/FWR[1]
Operating Voltage Range[2]	8 to 17.5 V (12 V nominal) or 16 to 33 V (24 V nominal)
Input Terminal Wire Gauge	12 to 18 AWG
Wall-Mount Dimensions (including lens)	5.6˝L × 4.7˝W × 2.5˝D (142 mm L × 119 mm W × 64 mm D)
Horn Dimensions	5.6˝L × 4.7˝W × 1.3˝D (142 mm L × 119 mm W × 33 mm D)
Wall-Mount Back Box Skirt Dimensions (BBS-2, BBSW-2)	5.9˝L × 5.0˝W × 2.2˝D (151 mm L × 128 mm W × 56 mm D)
Wall-Mount Trim Ring Dimensions (sold as a 5 pack) (TR-HS, TRW-HS)	5.7˝L × 4.8˝W × 0.35˝D (145 mm L × 122 mm W × 9 mm D)

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 Candela Range	15	123	128	66	71
	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 Candela Range	135	NA	NA	228	207
	150	NA	NA	246	220
	177	NA	NA	281	251
	185	NA	NA	286	258

UL Max. Horn Current Draw (mA RMS)

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

UL Max. Current Draw (mA RMS), 2-Wire Horn Strobe, Standard Candela Range (15–115 cd)

	8–17.5 Volts		16–33 Volts						
DC Input	15	15/75	15	15/75	30	75	95	110	115
Temporal High	137	147	79	90	107	176	194	212	218
Temporal Medium	132	144	69	80	97	157	182	201	210
Temporal Low	132	143	66	77	93	154	179	198	207
Non-Temporal High	141	152	91	100	116	176	201	221	229
Non-Temporal Medium	133	145	75	85	102	163	187	207	216
Non-Temporal Low	131	144	68	79	96	156	182	201	210
FWR Input									
Temporal High	136	155	88	97	112	168	190	210	218
Temporal Medium	129	152	78	88	103	160	184	202	206
Temporal Low	129	151	76	86	101	160	184	194	201
Non-Temporal High	142	161	103	112	126	181	203	221	229
Non-Temporal Medium	134	155	85	95	110	166	189	208	216
Non-Temporal Low	132	154	80	90	105	161	184	202	211

UL Max. Current Draw (mA RMS), 2-Wire Horn Strobe, High Candela Range (135–185 cd)

	16–33 Volts					16–33 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	275	281
Non-Temporal Medium	242	259	293	299	Non-Temporal Medium	219	232	262	267
Non-Temporal Low	238	254	291	295	Non-Temporal Low	214	229	256	262

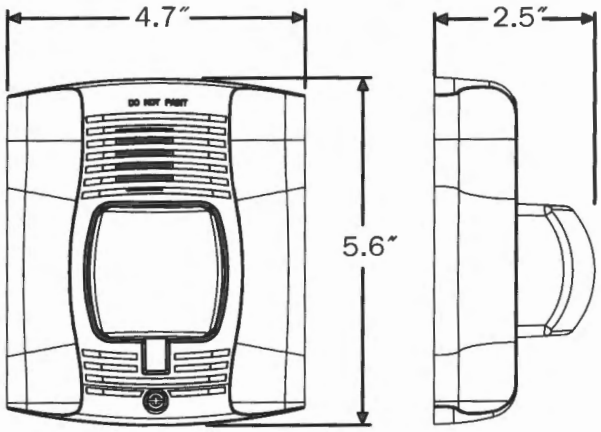
Horn Tones and Sound Output Data

Horn and Horn Strobe Output (dBA)

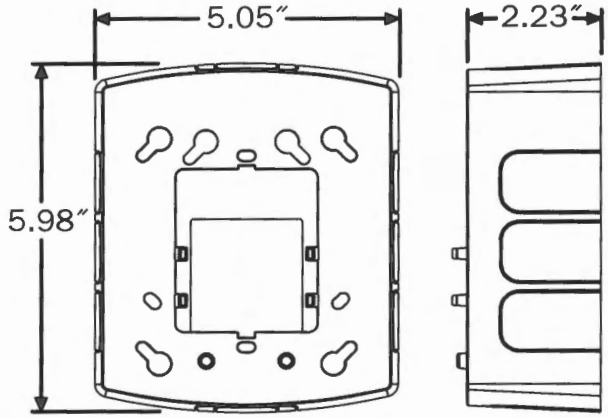
			8–17.5 Volts		16–33 Volts		24-Volt Nominal			
							Reverberant		Anechoic	
Switch Position	Sound Pattern	dB	DC	FWR	DC	FWR	DC	FWR	DC	FWR
1	Temporal	High	78	78	84	84	88	88	99	98
2	Temporal	Medium	74	74	80	80	86	86	96	96
3	Temporal	Low	71	73	76	76	83	80	94	89
4	Non-Temporal	High	82	82	88	88	93	92	100	100
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†	Coded	High	82	82	88	88	93	92	101	101
8†	Coded	Medium	78	78	85	85	90	90	97	98
9†	Coded	Low	75	75	81	81	88	85	96	92

†Settings 7, 8, and 9 are not available on 2-wire horn strobes.

SpectrAlert Advance Dimensions



Wall-mount horn strobes



Wall back box skirt

SpectrAlert Advance Ordering Information

Model	Description
Wall Horn Strobes	
P2R*†	2-Wire Horn Strobe, Standard cd‡, Red
P2RH*	2-Wire Horn Strobe, High cd, Red
P2W*	2-Wire Horn Strobe, Standard cd, White
P2WH*	2-Wire Horn Strobe, High cd, White
P4R*	4-Wire Horn Strobe, Standard cd, Red
P4RH	4-Wire Horn Strobe, High cd, Red
P4W	4-Wire Horn Strobe, Standard cd, White
Wall Strobes	
SR*†	Strobe, Standard cd, Red
SRH*†	Strobe, High cd, Red
SW*	Strobe, Standard cd, White
SWH*	Strobe, High cd, White

Model	Description
Horns	
HR	Horn, Red
HW	Horn, White
Accessories	
BBS-2	Back Box Skirt, Wall, Red
BBSW-2	Back Box Skirt, Wall, White
TR-HS	Trim Ring, Wall, Red
TRW-HS	Trim Ring, Wall 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.

SYSTEM SENSOR

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

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FIRE RISK MANAGEMENT, INC.

929 Worcester Road ◦ Framingham ◦ MA ◦ 01701
508 / 405-4405 ◦ 207 / 221-1295 fax)
www.fireriskmgt.com

October 16, 2012

Mr. Atsusho Tamaki
ISF Trading Co, Inc.
Hobson's Wharf
PO Box 772
Portland, ME 04104

Fire Protection / Life Safety Compliance Review of the Proposed Zumba Studio at Hobson's Wharf in Portland, Maine

Dear Mr. Tamaki:

As requested, Fire Risk Management, Inc. (FRM) has performed a fire protection / life safety compliance review of the proposed second floor Zumba Studio at Hobson's Wharf in Portland, ME (hereafter referred to as Studio). The review was based on the September 27, 2012 walk-through and a review of the fire protection / life safety codes applicable to the City of Portland. The following details the existing conditions, the applicable codes, and recommendations required for code compliance. This report will focus on the Second Floor area being proposed for the Studio.

APPLICABLE CODES

The following codes are applicable to the building:

- Maine Uniform Building and Energy Code (MUBEC), which is an amended version of the 2009 International Building Code.
- NFPA 101 – Life Safety Code (2009 Edition), as amended.
- NFPA 1 – Fire Code (2009 Edition), as amended.

EXISTING / PROPOSED CONDITIONS

The proposed second floor Studio is approximately 3,000 sq.ft. in area, with 750 sq.ft. being used for a storage / changing rooms / office space. The open area is currently vacant.

RECOMMENDATIONS / DISCUSSION

Based on the existing conditions and the proposed new use, we have the following recommendations:

- Provide sprinkler protection within the existing changing room and the storage room in the Studio. The ceiling could be removed from the storage closet to allow the ceiling sprinklers to provide protection. This should be completed regardless of the studio.
- Provide new exit signage for the Studio and the second floor exit corridor.
- Provide automatic monitoring of the sprinkler system to be able to automatically contact the fire department upon sprinkler waterflow.
- Provide fire alarm notification devices thoughout the building.

The addition of the sprinkler monitoring as well as the fire alarm notification devices will provide an increased level of safety for the additional occupants on the second floor.

Sincerely,

Jeffrey L. DeMaine, P.E.

City of Portland, Maine - Building or Use Permit Application

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

Job No:	Date Applied:	CBL:	
2012-07-4570-CH OF USE	**7/27/2012**	**042- D-002-001**	
Location of Construction: **390 COMMERCIAL ST / HOBSON'S WHARF**	Owner Name: **HOPSON'S PIER INC / ISF TRADING**	Owner Address: **390 COMMERCIAL ST PORTLAND, ME 04104**	Phone:
Business Name: **Nina's Zumba Studio**	Contractor Name: **Lessee: Nina Alves**	Contractor Address: **91 Bradley Street, Portland, ME 04102**	Phone: **831-1650**
Lessee/Buyer's Name: **Nina Alves**	Phone: **831-1650**	Permit Type: **BLDG CH of USE**	Zone: **WCZ**
Past Use: **Marine related uses and storage**	Proposed Use: **Change of use of partial 2nd floor from storage to personal service for a zumba studio as per plans**	Cost of Work: **$1,000.00** Fire Dept: ___ Approved ___ Denied ___ N/A Signature:	CEO District: Inspection: Use Group: Type: Signature:
Proposed Project Description: **Change of Use Storage to Zumba Studio**		Pedestrian Activities District (P.A.D.)	
Permit Taken By: Lannie			

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 electrial work.
3. Building permits are void if work is not started within six (6) months of the date of issuance. False informatin may invalidate a building permit and stop all work.

Zoning Approval

Special Zone or Reviews	Zoning Appeal	Historic Preservation
___ Shoreland	___ Variance	___ Not in Dist or Landmark
___ Wetlands	___ Miscellaneous	___ Does not Require Review
___ Flood Zone	___ Conditional Use	___ Requires Review
___ Subdivision	___ Interpretation	___ Approved
___ Site Plan	___ Approved	___ Approved w/Conditions
___ Maj ___ Min ___ MM	___ Denied	___ Denied
Date:	Date:	Date:

CERTIFICATION

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the appication is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT ADDRESS DATE PHONE

RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE DATE PHONE

City of Portland, Maine – Building or Use Permit Application 389 Congress Street, 04101, Tel: (207) 874-8703, FAX: 874-8716

Location of Construction: 390 Commercial St	Owner: I S F Trading Inc	Phone: 879-1575 – call	Permit No: 961[illegible]
Owner Address: P.O. Box 772 Ptld ME 04104	Lessee/Buyer's Name:	BusinessName: fi p/up	
Contractor Name: [illegible] Concrete Floors	Address: Gray ME 657-5101	Phone:	
Past Use: seafood processing plant	Proposed Use: seafood processing plant w/ liquid nitrogen tank	COST OF WORK: $15,000 / PERMIT FEE: $[illegible]95	
		FIRE DEPT. ☐ Approved ☐ Denied Signature:	INSPECTION: Use Group: 4 Type: Signature:
Proposed Project Description: build concrete base & inst liquid nitrogen tank (for freezing)		PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.) Action: Approved ☐ Approved with Conditions ☐ Denied ☐ Signature: Date:	
Permit Taken By: L Chase	Date Applied For: 11/12/96		

PERMIT ISSUED
NOV 25
CITY OF PORTLAND

Zone: CBL: Zoning Approval: Special Zone or Reviews: ☐ Shoreland ☐ Wetland ☐ Flood Zone ☐ Subdivision ☐ Site Plan maj ☐ minor ☐ mm ☐

Zoning Appeal ☐ Variance ☐ Miscellaneous ☐ Conditional Use ☐ Interpretation ☐ Approved ☐ Denied

Historic Preservation ☐ Not in District or Landmark ☐ Does Not Require Review ☐ Requires Review

Action: ☐ Approved ☐ Approved with Conditions ☐ Denied

Date: 11/[illegible]

1. This permit application doesn't 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 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.

PERMIT ISSUED WITH LETTER

CERTIFICATION

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provisions of the code(s) applicable to such permit

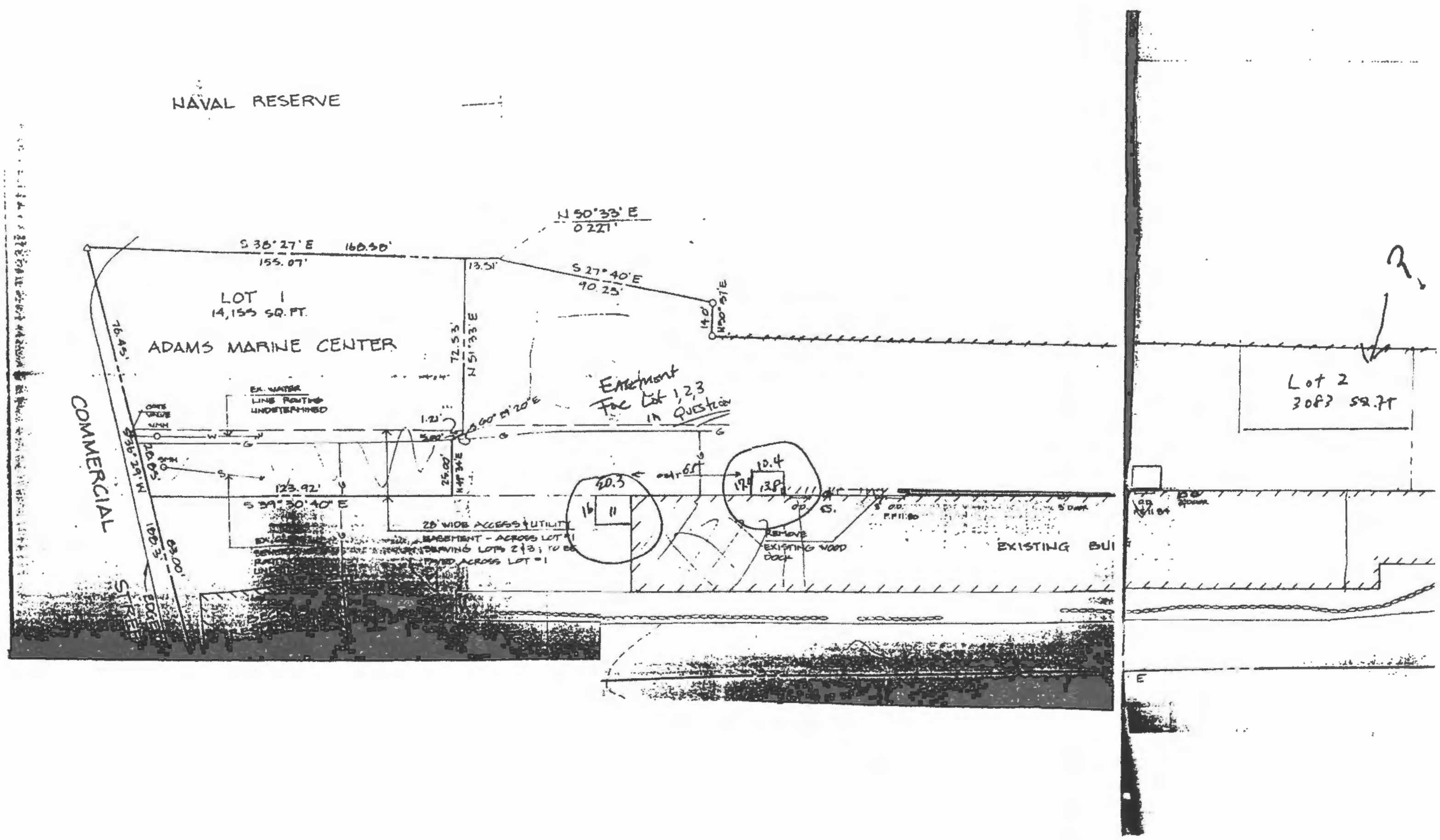
SIGNATURE OF APPLICANT ADDRESS: DATE: 11/12/96 PHONE: 879-1575

RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE PHONE:

CEO DISTRICT 2

A. Rowe

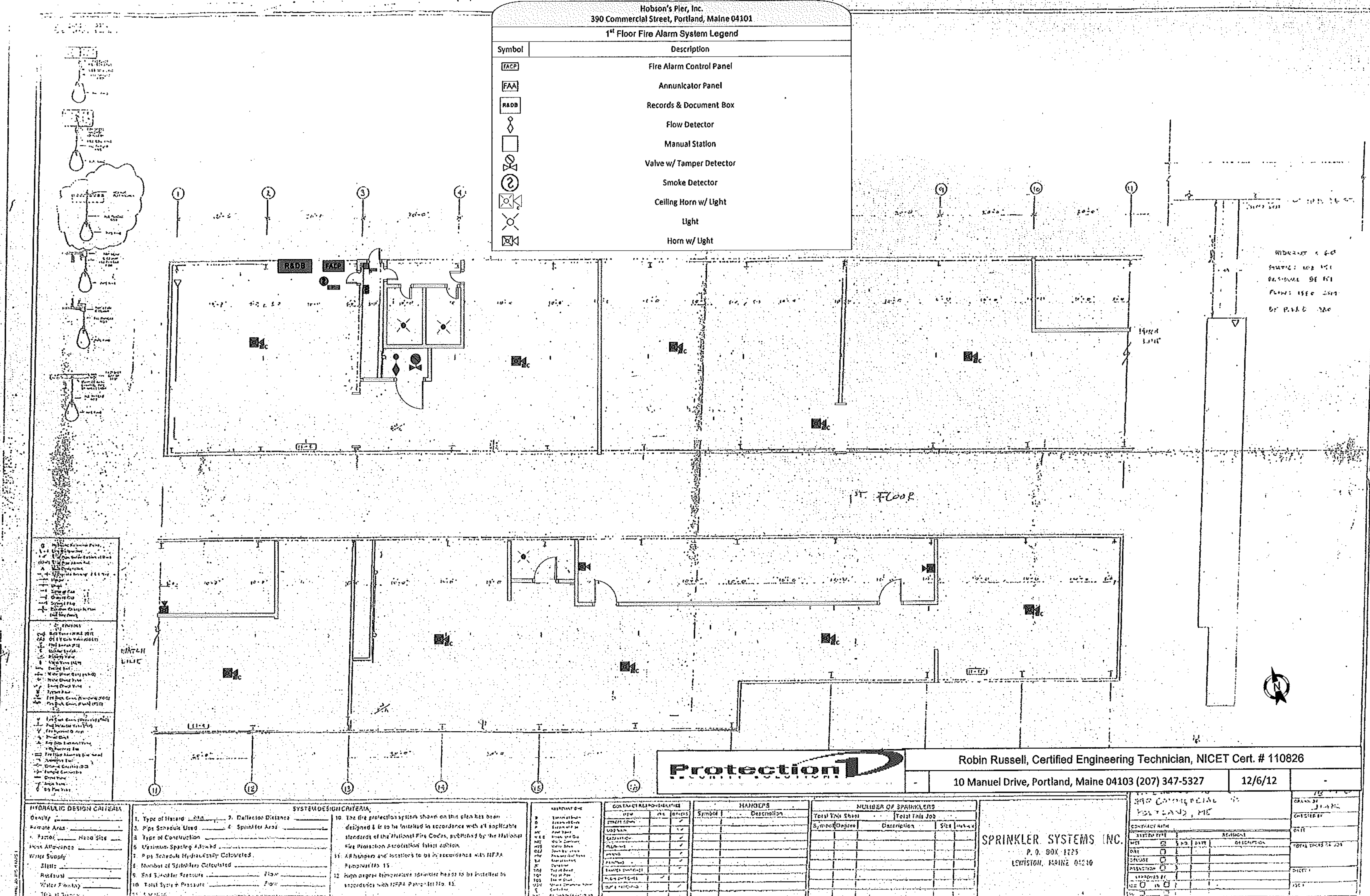
White–Permit Desk Green–Assessor's Canary–D.P.W. Pink–Public File Ivory Card–Inspector


NAVAL RESERVE
N 50°33' E
0.221'
S 38°27' E 168.58'
155.07'
S 27°40' E
40.25'
LOT 1
14,155 SQ. FT.
ADAMS MARINE CENTER
N 51°33' E
72.53'
13.51'
14.0'
COMMERCIAL
STREET
EX. WATER LINE ROUTING UNDETERMINED
Easement For Lot 1,2,3 in Question
123.92'
S 39°30'40" E
28' WIDE ACCESS & UTILITY EASEMENT - ACROSS LOT #1 SERVING LOTS 2 & 3; TO BE PAVED ACROSS LOT #1
REMOVE EXISTING WOOD DOCK
EXISTING BUI
Lot 2
3083 SQ.FT

Hobson's Pier, Inc.
390 Commercial Street, Portland, Maine 04101

1st Floor Fire Alarm System Legend

Symbol	Description
FACP	Fire Alarm Control Panel
FAA	Annunicator Panel
R&DB	Records & Document Box
	Flow Detector
	Manual Station
	Valve w/ Tamper Detector
	Smoke Detector
	Ceiling Horn w/ Light
	Light
	Horn w/ Light



Protection 1 Security Solutions

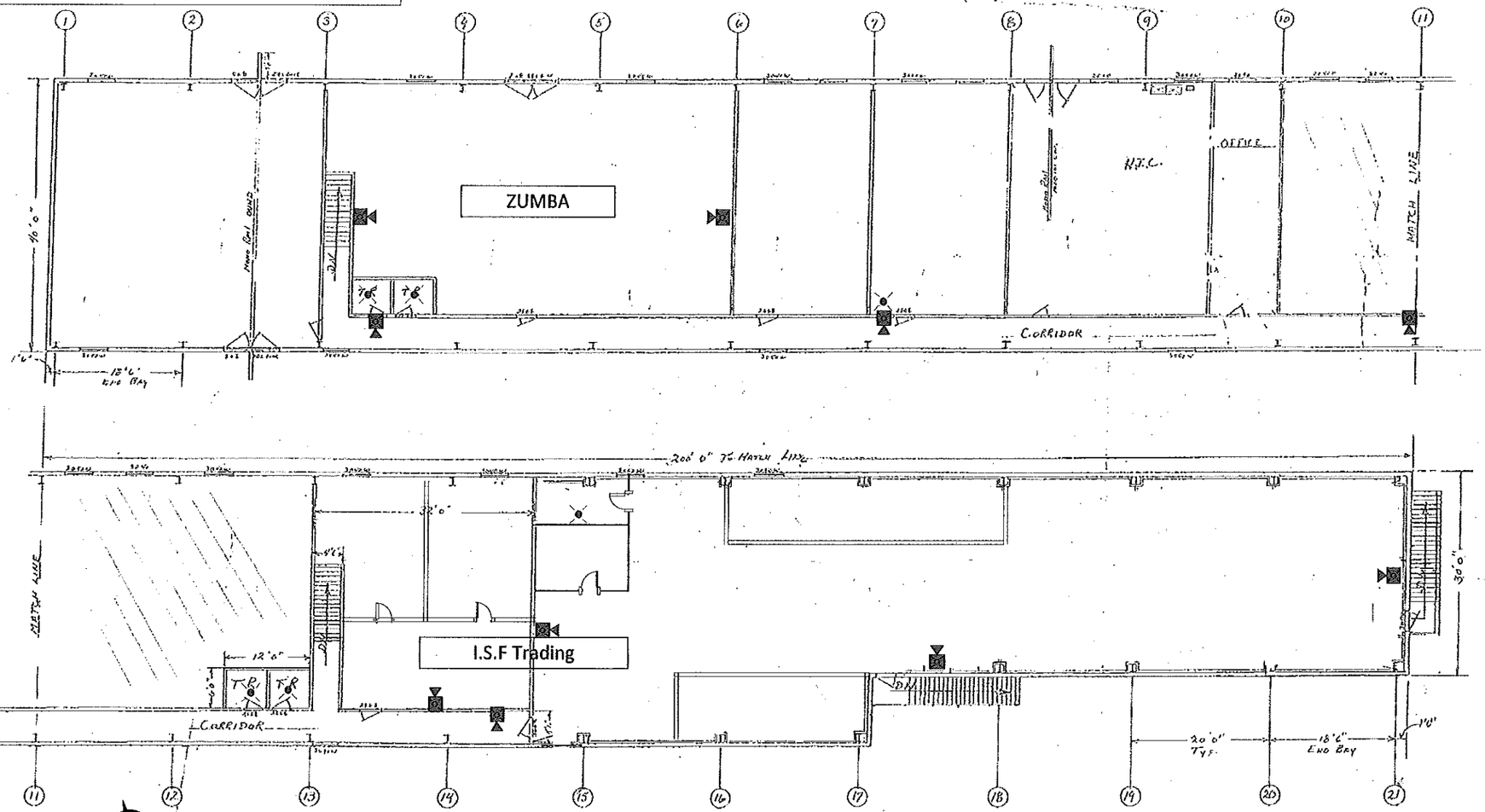
Robin Russell, Certified Engineering Technician, NICET Cert. # 110826

10 Manuel Drive, Portland, Maine 04103 (207) 347-5327 | 12/6/12

Hobson's Pier, Inc.
390 Commercial Street, Portland, Maine 04103

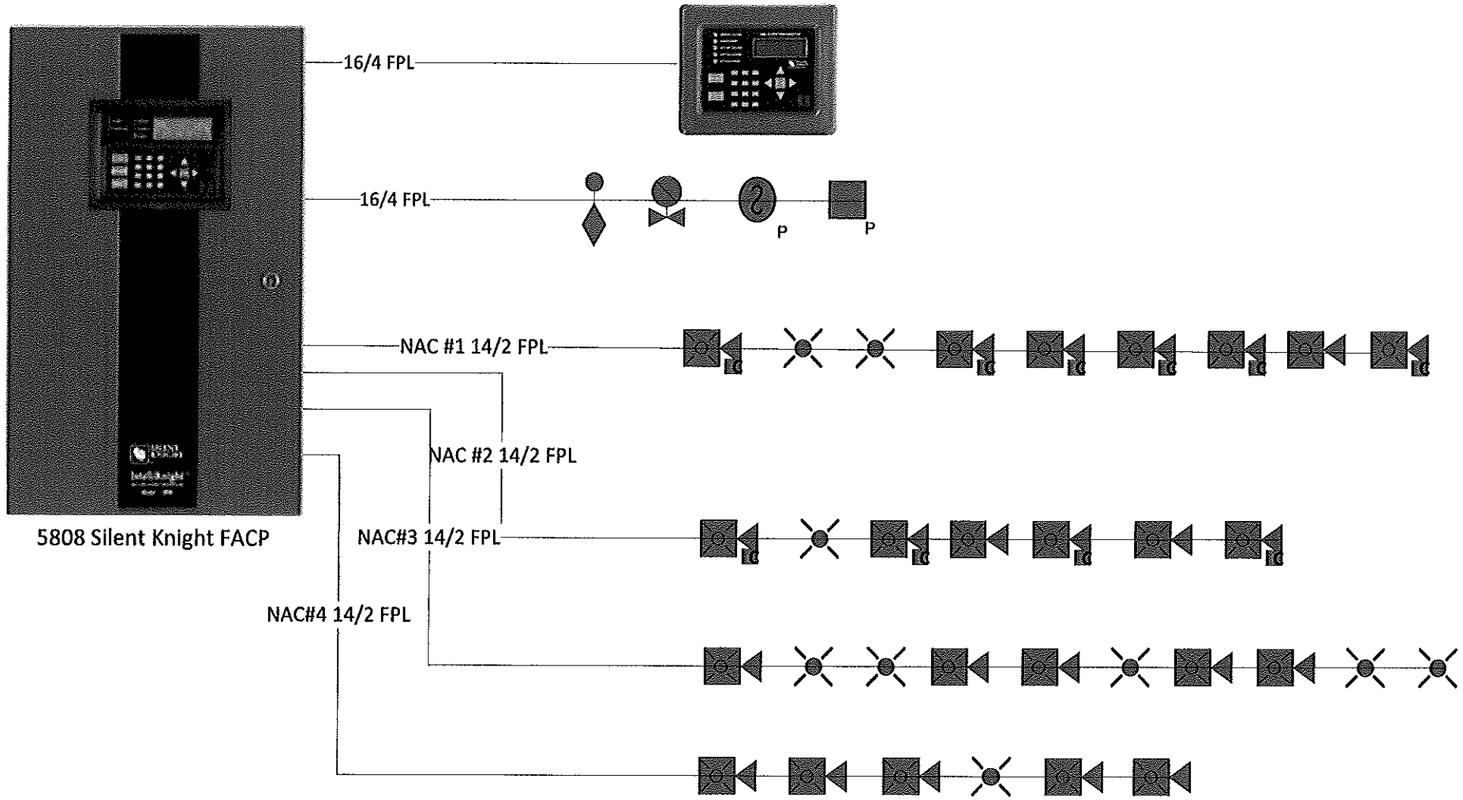
2nd Floor Fire Alarm System Legend

Symbol	Description
⊠	Horn w/ Light
☼	Light



Protection 1 SECURITY SOLUTIONS	Robin Russell, Certified Engineering Technician, NICET Cert. # 110826			
	-	10 Manuel Drive, Portland, Maine 04103 (207) 347-5327	12/6/12	-

HOBSON'S WHARF
YANKEE CONST. CORP.
SECOND FLOOR
R 2



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-	10 Manuel Drive, Portland, Maine 04103 (207) 347-5327	12/6/12	-