

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND BUILDING PERMIT



This is to certify that

180 PARK AVENUE LLC /Efficiency Electric /Jeff Cannell

Located at

180 PARK AVE

PERMIT ID: 2013-00024

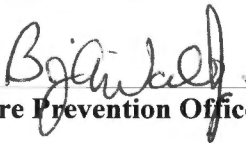
CBL: 048 A001001

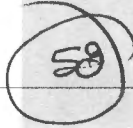
has permission to **install new supervised fire alarm system.**

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 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 procured prior to occupancy.


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**

PERMIT ID: 2013-00024

Located at: 180 PARK AVE

CBL: 048 A001001

City of Portland, Maine - Building or Use Permit Application

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

Permit No: 2013-00024	Issue Date:	CBL: 048 A001001
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Location of Construction: 180 PARK AVE	Owner Name: 180 PARK AVENUE LLC	Owner Address: 2367 CONGRESS ST PORTLAND, ME 04102		Phone:
Business Name:	Contractor Name: Efficiency Electric /Jeff Cannell	Contractor Address: 356 Windham Center Road Windham ME 04062		Phone (207) 892-5800
Lessee/Buyer's Name	Phone:	Permit Type: Fire Alarm System		Zone: R6
Past Use: Medical offices/ Health Clinic	Proposed Use: Medical offices/ Health Clinic	Permit Fee: \$150.00	Cost of Work: \$13,000.00	CEO District: 4
		FIRE DEPT: <input type="checkbox"/> Approved <input type="checkbox"/> Denied <input type="checkbox"/> N/A		INSPECTION: Use Group: Type:
Proposed Project Description: Install Fire Alarm for Health Clinic		Signature: _____		Signature: _____
		PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.) Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Signature: _____ Date: _____		

Permit Taken By: LDOBSON	Date Applied For: 01/04/2013	Zoning Approval	
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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..	Special Zone or Reviews <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minr Date: _____	Zoning Appeal <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use Interpretation	Historic Preservation <input checked="" type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date: _____
	<i>No scope of work, battery & voltage calcs, operations matrix, cut sheets</i>		

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

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

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: 2013-00024	Date Applied For: 01/04/2013	CBL: 048 A001001
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Location of Construction: 180 PARK AVE	Owner Name: 180 PARK AVENUE LLC	Owner Address: 2367 CONGRESS ST	Phone:
Business Name:	Contractor Name: Efficiency Electric /Jeff Cannell	Contractor Address: 356 Windham Center Road Windham	Phone (207) 892-5800
Lessee/Buyer's Name	Phone:	Permit Type: Fire Alarm System	

Proposed Use: Medical offices/ Health Clinic	Proposed Project Description: Install Fire Alarm for Health Clinic
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Dept: Zoning **Status:** Approved **Reviewer:** Marge Schmuckal **Approval Date:** 01/07/2013
Note: **Ok to Issue:**

Dept: Fire **Status:** Approved w/Conditions **Reviewer:** Ben Wallace Jr **Approval Date:** 02/20/2013
Note: Incomplete submission. **Ok to Issue:**

- 1) Fire protection systems 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.
- 2) Notice: The first scheduled final inspection fee is at no charge. Additional inspections shall be billed at \$75 for each inspector.
- 3) The fire alarm technician shall be present for the fire inspection. System acceptance and commissioning must be coordinated with alarm and suppression system contractors and the Fire Department. Call 874-8703 to schedule.
- 4) Visible signals are required per NFPA 101:9.6.3.5 in accordance with NFPA 72:18.5.4.4. Audible and visible notification signals are not required in exit stair enclosures by NFPA 101:9.6.3.5.5 and NFPA 101:9.6.3.6.4.
- 5) All smoke detectors shall be photoelectric.
- 6) A 4100 series Knox Box is required.
- 7) Supervising Station monitoring for addressable fire alarm systems shall be by point.
- 8) Through-penetrations and membrane penetrations in fire walls, fire barrier walls, and fire resistance rated horizontal assemblies shall be protected by firestop systems or devices in conformance with NFPA 101:8.3.5 (ASTM E 814 or ANSI/UL 1479). Providing firestop labels at each firestop system or device and an onsite manual containing the detail for each firestop system or device used for the project will streamline final inspection approvals.
- 9) Records cabinet, FACP, annunciator(s), and pull stations shall be keyed alike.
- 10) All fire alarm records required by NFPA 72 should be stored in an approved cabinet located at the FACP labeled "FIRE ALARM RECORDS".
- 11) A master box connection is not authorized for this building.
- 12) 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
- 13) In field installation shall be installed per code as conditions dictate.
- 14) The fire alarm system shall have a new fire alarm inspection sticker.

281300024

E-mail PDF



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: 180 Park Avenue CBL: 48-A-1

Exact location: (within structure) First Floor

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

Building owner: Portland Community Health

System Designer (point of contact): Must be Tim Matthews

Designer phone: 847-9280 E-mail: _____

Installing contractor: Efficiency Electric Certificate of Fitness No: M1001

Contractor phone: 329-6498 E-mail: _____

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 1/2 x 17s
- pdf copy (may be e-mailed)
- Designer qualifications
- Battery/ voltage drop calcs

COST OF WORK: \$13,000

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

RECEIVED
JAN 03 2013
Dept of Building Inspections
City of Portland Maine

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

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 1/2 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: [Signature] Date: 1/4/13

180 Park Ave
Jeff - 324-6498

RECEIVED

JAN 18 2013

FARADAY

Dept. of Building Inspections

8701 Intelligent Monitoring Module

Features

Intelligent Interface Modules for use with MPC-6000 & 7000 Control Panels

- Interfaces and Supervises Normally Open Contacts
- Compact Size Allows Mounting in Single Gang Box Behind Equipment
- Polarity Insensitive Technology
- Innovative Technology Supports Comprehensive System and Interface Communication
- Dynamic Supervision
- Two Wire Operation
- 8720 Device Program/Test Unit Electronically Programs and Verifies Device's Address and Tests Device's Functionality
-  Listed, CSFM and NYMEA Approved

Introduction

The FARADAY 8701 Intelligent interface module is designed to provide the means of interfacing direct shorting devices to the MPC-6000 & 7000 initiating circuit.

The 8701 Intelligent interface module provides the market's most advanced method of address programming and supervision, combined with sophisticated control panel communication. Each 8701 interface module incorporates microcomputer chip technology and its sophisticated bi-directional communication capabilities with the control panel.

Description

The 8701 is designed to monitor a normally open dry contact and reports the contact's status to the control panel.

The device's microcomputer chip has the capacity of storing, in memory, identification information as well as important operating status information.

FARADAY innovative technology allows all 8701 intelligent interface modules to be programmed by



using the 8720 Device Program/Test Unit. The 8720 is a compact, portable, menu driven accessory that makes programming and testing an interface device faster, easier and more dependable than previous methods. The 8720 eliminates the need for mechanical addressing mechanisms, such as program jumpers, DIP switches or rotary dials, because it electronically sets the 8701 interface's address into the interface's microcomputer chip non-volatile memory. Vibration, corrosion and other conditions that deteriorate mechanical addressing mechanisms are no longer a cause for concern. This 8701 is connected to the program/tester with the programming cable provided with the tester. This programming cable utilizes two (2) alligator clip connectors to attach to the 8701.

The 8701 Series has five leads, one for grounding, which are wired to the system with user supplied wire nuts.

The 8701 is fully compatible on the same circuit with detectors, addressable manual stations or any addressable intelligent modules.

All 8701 intelligent interface modules have been UL and ULC Listed.

Environmental operating conditions for all 8701 modules are 32°F (°C) to 120°F (49°C) with a relative humidity of not greater than 93% non-condensating.

Ordering Information

Model	Description	Shipping oz.	Weight kg.	Part No.
8701	Single Input	3.5	.1	500-034000FA

Electrical Ratings

Current Draw (Active or Standby): 1mA

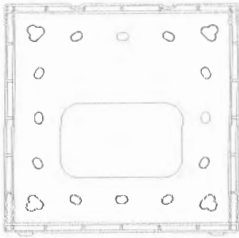


Siemens Building Technologies, Inc.
8 Fernwood Road • Florham Park, NJ 07932
Tel: (973) 593-2600 • Fax: (973) 593-6670
Web: www.faradayfirealarms.com

WARNING -The information contained in this document is intended only as a summary and is subject to change without notice. The devices described in this document have specific instruction sheets which cover various technical, limitation and liability information. Copies of these instruction sheets and the General Product Warning and Limitations Document, which also contains important information, are provided with the product and are available from the Manufacturer. Information contained in these documents should be consulted before specifying or using the product. For further information or assistance concerning particular problems contact the Manufacturer.

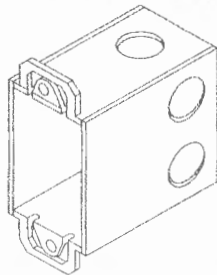
Mounting Matrix and Details

(A) UNIVERSAL MOUNTING PLATE



"AS" Mounting (item included with AS series devices)

(B) SINGLE-GANG, FLUSH (BO)

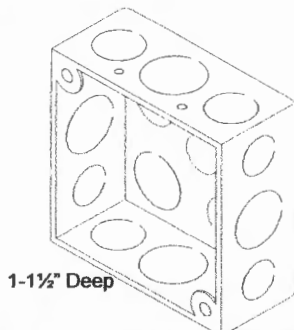


MAXIMUM NUMBER OF CONDUCTORS

AWG. #18	AWG. #16	AWG. #14	AWG. #12
4	4	4	4

Used with Series AH, AS, MH, NH, NS, ST

(D) 4" SQUARE, FLUSH (BO)



1-1/2" Deep

MAXIMUM NUMBER OF CONDUCTORS

AWG. #18	AWG. #16	AWG. #14	AWG. #12
4	4	4	4

Used with Series MH115, B6, B10, AH, AS, HS, MBDC, MTH, NH, NS, ST

(E) 4" SQUARE, DEEP, FLUSH (BO)

2-1/8" Deep

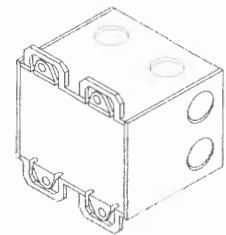


MAXIMUM NUMBER OF CONDUCTORS

AWG. #18	AWG. #16	AWG. #14	AWG. #12
8	8	8	8

Used with Series MH115, B6, B10, AH, AS, SETSF, SET-ULC, HS, MBDC, MTH, NH, NS, ST

(F) DOUBLE-GANG, FLUSH (BO)



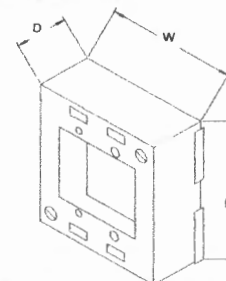
MAXIMUM NUMBER OF CONDUCTORS

AWG. #18	AWG. #16	AWG. #14	AWG. #12
4	4	4	4

Used with Series AH, AS, HS, MT, NH, NS, ST

(G) DOUBLE-GANG, SURFACE (BO)

L	W
4-3/4"	4-3/4"
D	GANG #
1-3/4"	2



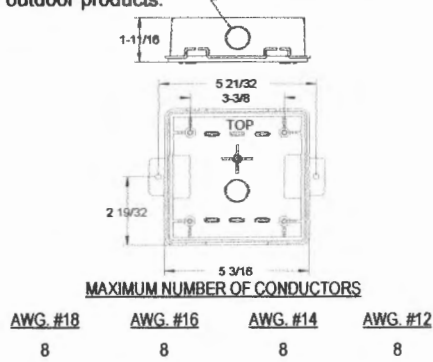
MAXIMUM NUMBER OF CONDUCTORS

AWG. #18	AWG. #16	AWG. #14	AWG. #12
4	4	4	4

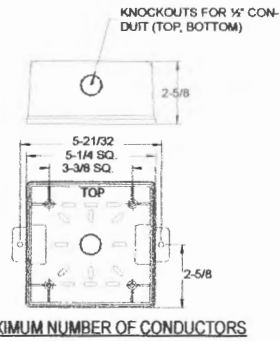
Used with Series AH, AS, NH, NS, ST

(I) WPBBS (ORDER CODE: RED 500-636137)

Plastic backbox for surface mounting series AS weather-proof outdoor products.



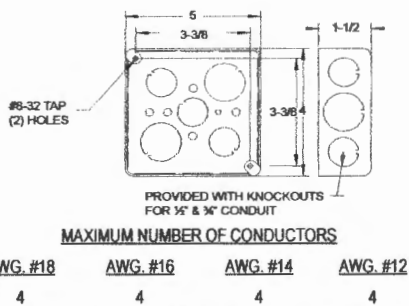
(M) MT-SUR-BOX BACKBOX (ORDER CODES: RED 500-693168, WHITE 500-636118)



Used with Series SET, HS, MTH, MTWP. For surface mounting MT products.

(J) BBS BACKBOX (ORDER CODES: RED 500-636110)

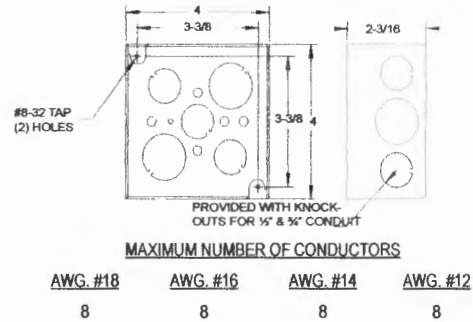
Standard steel backbox with knockouts for interior surface mounting, concealed conduit mounting or semi-flush applications.



Used with Series MH115, B6, B10, AH, AS, MBDC, MTH-15-115, NH, NS, ST

(N) DBBS BACKBOX (ORDER CODE: RED 500-636111)

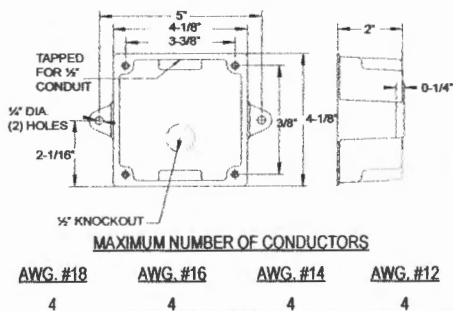
Standard steel backbox provided with knockouts for interior surface mounting, concealed conduit mounting or semi-flush applications.



Used with Series MH115, B6, B10, AH, AS, SETSF, HS, MBDC, MTH, NH, NS, ST

(K) WBBS WEATHER RESISTANT BACKBOX (ORDER CODES: RED 500-636129, WHITE 500-636131)

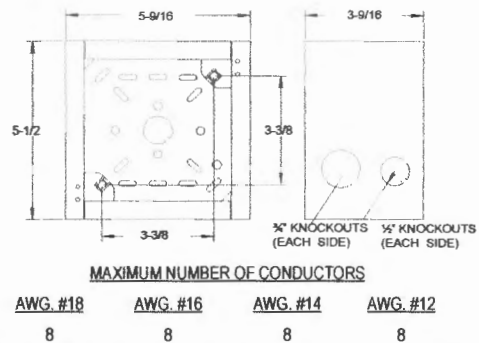
Sturdy die cast housing, threaded conduit hole and knockout for outdoor applications.



Used with Series MH115, B6, B10, SETSF, MBDC, MTH-15-115

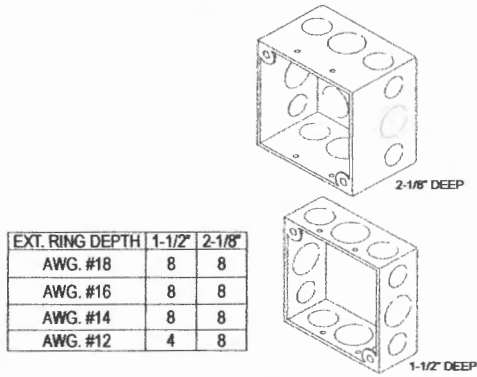
(P) SBBS BACKBOX (ORDER CODES: RED 500-636119, WHITE 500-636120)

For surface mounting speakers, chimes, and electronic applications.



Used with Series B6, B10, CH, SEF, SET, SETFL, HS, MBDC, MTH, NH, NS, ST

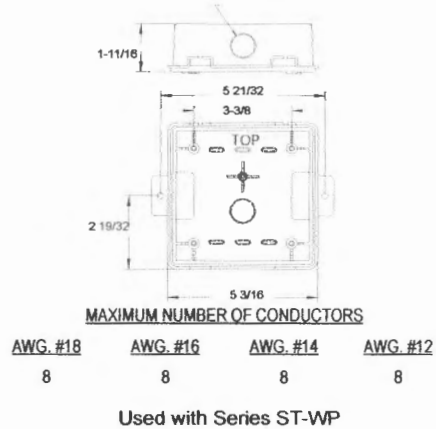
(Q) 4" SQUARE DEEP W/ EXTENSION RING, FLUSH (BO)



EXT. RING DEPTH	1-1/2"	2-1/8"
AWG. #18	8	8
AWG. #16	8	8
AWG. #14	8	8
AWG. #12	4	8

Used with Series CH, SEF, SET, SETFL

(T) WPSBBS (ORDER CODES: RED 500-636139, WHITE 500-636140)

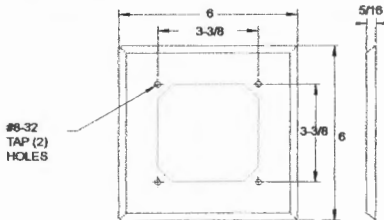


MAXIMUM NUMBER OF CONDUCTORS			
AWG. #18	AWG. #16	AWG. #14	AWG. #12
8	8	8	8

Used with Series ST-WP

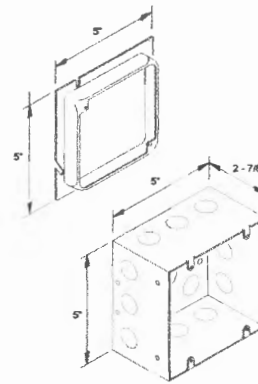
(R) SFPS SEMI-FLUSH PLATE (ORDER CODES: RED 500-636124, WHITE 500-636125)

Stamped aluminum surface wall plate which mounts behind the basic unit and serves to cover recessed backboxes in semi-flush mounting applications.



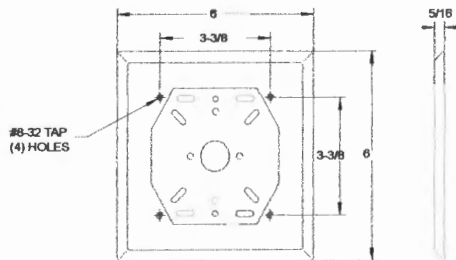
Used with Series MT, SET, SE, NH, NS, ST

(U) 5" SQUARE BACKBOX W/ EXTENSION RING, FLUSH (BO)



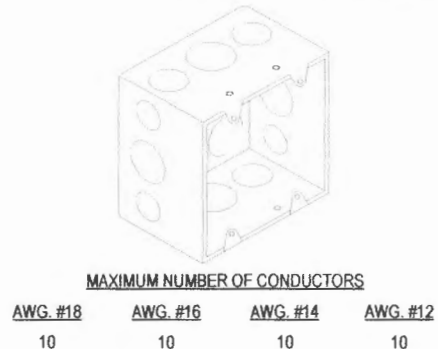
(S) APS ADAPTER PLATE (ORDER CODE: RED 500-630109)

Stamped aluminum adapter plate designed for applications where semi-flush installations cannot be used. The plate can be mounted to standard octagon or round backboxes single or double gang boxes or plaster rings. The backbox and basic unit are then fastened to the plate. This type mounting is referred to as a concealed conduit installation.



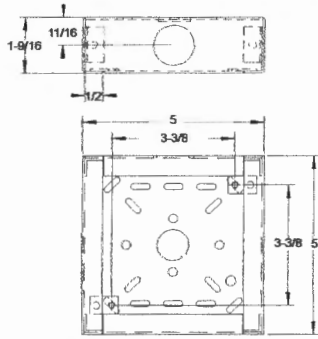
Used with Series MBDC

(W) 4 11/16" SQUARE, DEEP SURFACE (BO)



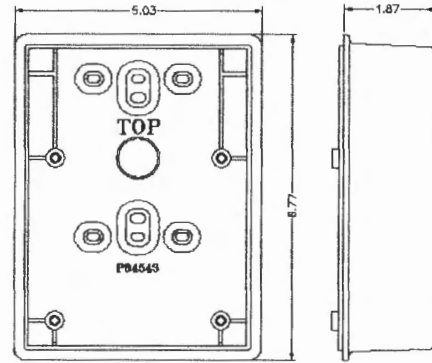
MAXIMUM NUMBER OF CONDUCTORS			
AWG. #18	AWG. #16	AWG. #14	AWG. #12
10	10	10	10

(X) SHBBS SQUARE, SURFACE BACKBOX
 (Order Codes: Red 500-636126, White 500-636127)



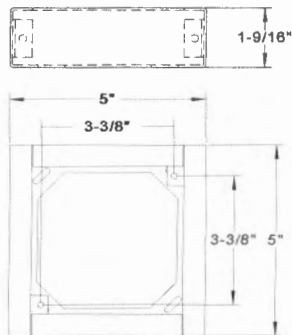
Used with Series AS, AH, NS, Z

(BB) SPSSB (ORDER CODES: RED 500-636114, WHITE 500-636115)



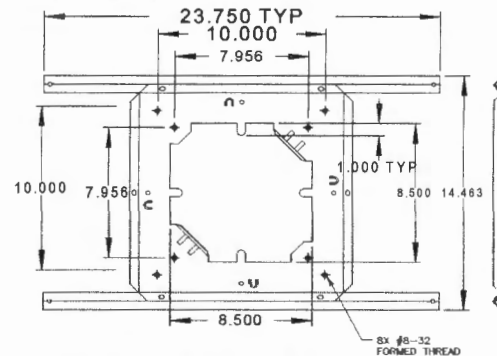
Used with Series SE-MC/HMC
 (wall mount speaker/ strobe)

(Y) SERS SQUARE SEMI-FLUSH EXTENSION RING (Order Codes: Red 500-636122, White 500-636123)



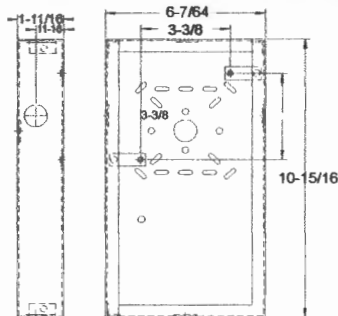
Used with Series CH, SEF, SET

(CC) SB-W 8" CEILING SUPPORT BRIDGE (ORDER CODE: WHITE 500-634882)

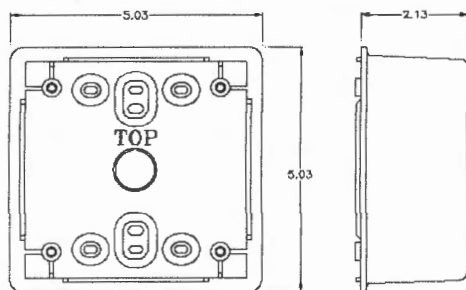


Used with Series S 8" Ceiling Speakers

(Z) SBL2S BACKBOX (Order Codes: RED 500-636121)

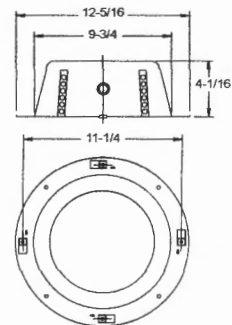


(AA) SPSB (Order Codes: Red 500-636112, White 500-636113)



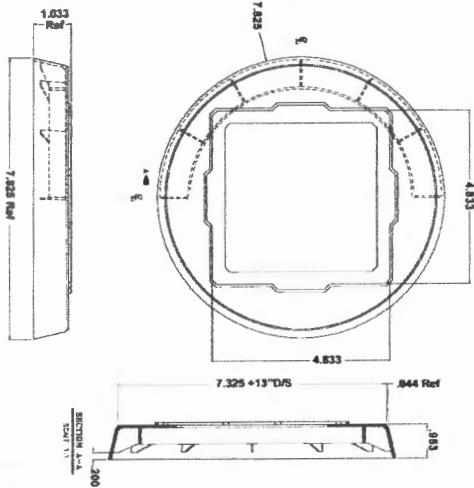
Used with Series SE Speakers

(DD) SE-1 8" CEILING SPEAKER BACKBOX (ORDER CODE: WHITE: 500-634881)



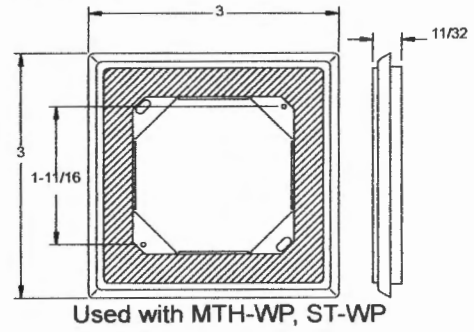
Used with 8" Ceiling Speakers

(EE) SPEXT EXTENSION RING (ORDER CODE: RED 500-636116, WHITE 500-636117)

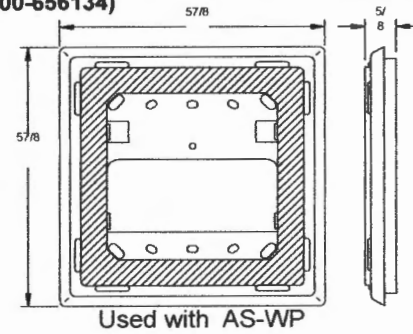


Used with Series SE-MC-C (ceiling mount strobe)

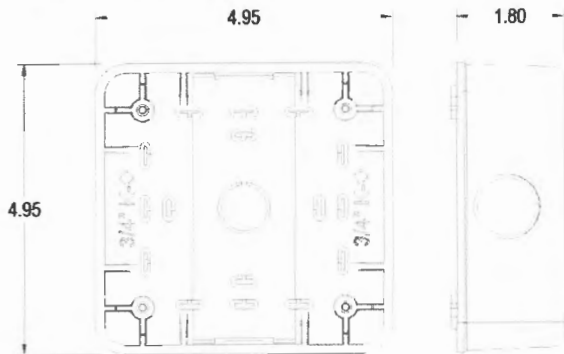
(GG) WFPS PLATE (ORDER CODES: RED 500-636135, WHITE 500-636136)



(HH) WFPAS PLATE (Order Codes: Red 500-363133, White 500-656134)



(FF) ZBB (ORDER CODES: RED 500-636193, WHITE 500-636194)



Used with Series Z

MOUNTING MATRIX

	Series SET-C	Series ST	Series ST-MC-RETRO	Series MH115	Series SE	Series B10-115	Series CH	Series SETSF-B	Series SETSF	Series MBDC	Series SET/SET Wall Mount	Series SE-C	Series MH	Series MTH	Series NH/NS	Series HS	Series AS/AH	Series AH-WB(3), MT-WP(4), MTH	Series Z
(A) Universal Mounting Plate (included with AS series devices)																			
(B) 1-GANG x 2" Deep - Flush (BO)		X										X		X			X		X
(D) 4" x 4" x 1.5" Deep - Flush (BO)		X	X	X		X			X					X	X	X	X		X
(E) 4" x 4" x 2.125" Deep - Flush (BO)		X	X	X	X	X		X	X				X	X	X	X	X		X
(F) 2-Gang x 3.5" Deep - Flush (BO)		X											X	X	X	X	X		X
(G) 2-Gang x 1.75" Deep - Surface (BO)		X												X	X	X	X		X
(I) WPBBS-R Weatherproof Backbox for AS-WP																			2
(J) BBS Surface (SP) Note 9		X		X	X				X					X					
(K) WBBS Weatherproof (SP)				X	X			X	X								X		3
(M) MT-SUR-BOX Surface & Weatherproof (SP)										X			X			X			4
(N) DBBS Surface (SP)		X		X	X			X	X				X	X	X	X			
(P) SBBS Surface (SP)		X	X			X	X	X	X	X			X	X	X	X	X		
(Q) 4" x 4" x 2.125" Box w/ 1.5" Extension Ring- Flush (BO)		X		X			X	X		X	X								
(R) SPT Semi-Flush Plate (SP)		X		X	X	X	X		X	X			X	X	X	X	X		
(S) APS Adapter Plate (SP)						X			X	X	X								
(T) WPSBBS-R Weatherproof Backbox for ST-WP																			1
(U) 5" Square Backbox w/ Extension Ring, Flush (BO)		X					X	X				X							
(W) 4.6875" x 4.6785" x 2.125" Deep Surface (BO)																			
(X) SHBBS (SP) Shallow Surface			X			X			X						X		X		
(Y) SERSSemi-Flush Extension Ring (Retrofit Appl.)		X					X				X								
(Z) SBLS-2 Surface (SP)		X	X	X		X	X	X	X										
(AA) SPSB Backbox for SE Speaker					X														
(BB) SPSSB Backbox for SE Speaker Strobe					X														
(EE) SPEXT Extension Ring												X							
(FF) ZBB																			X

MOUNTING NOTES

Caution: The mounting options figures show the maximum number of field wires (conductors) that can enter the backbox used with each mounting option. If these limits are exceeded, there may be insufficient space in the backbox to accommodate the field wires and stresses from the wires could damage the product.

Although the limits shown for each mounting option comply with the National Electrical code (NEC), Siemens recommends use of the largest backbox option and the use of approved field wires whenever possible, to provide additional wiring room for easy installation and minimum stress on the product from wiring.

Caution: Check that the installed product will have sufficient clearance and wiring room prior to installing backboxes and conduit, especially if sheathed multiconductor cable or 3/4" conduit fittings are used.

1. Mounting hardware for each mounting option is supplied.
2. Conduit entrances to the backbox should be selected to provide sufficient wiring clearance for the installed product. When extension rings are required, conduit should enter through the backbox, not the extension ring. Use Steel City #53151 (1-1/2" deep) or #53171 (2-1/8" deep) extension rings (as noted in the mounting options) or equal with the same cut-out area.

3. When terminating field wires, do not use more lead length than required. Excess lead length could result in insufficient wiring space for the appliance.
4. Use care and proper techniques to position the field wires in the backbox so that they use minimum space and produce minimum stress on the product. This is especially important for stiff, heavy gauge wires and wires with thick insulation or sheathing.
5. Do not pass additional wires (used for other than the appliance) through the backbox "unless the backbox is of a sufficient size to permit additional wiring as described in NEC 314.16 (B)". Such additional wires could result in insufficient wiring space for the appliance.

NOTE: Due to continuous development of our products, specifications and offerings are subject to change without notice in accordance with Siemens Inc. standard terms and conditions.

BACKBOX MOUNTING HEIGHTS for SIEMENS WALL MOUNTED HORIZONTAL STROBE APPLIANCES NFPA-72 (2007)

7.5.4.1* Wall-mounted appliances shall be mounted such that the entire lens is not less than 2030 mm (80 in.) and not greater than 2440 mm (96 inc.) above the finished floor or at the mounting height specified using the performance-based alternative 7.5.4.5

7.5.4.2 Where low ceiling heights do not permit mounting at a minimum of 2030 mm (80 in.), visible appliances shall be mounted within 150 mm (6 in.) of the ceiling. The room size covered by a strobe of a given value shall be reduced by twice the difference between the minimum mounting height of 2030 mm (80 inc.) and the actual, lower mounting height.

Backbox Mounting Options*	Series AS/AH Audible Strobe		Series ST-MC-RETRO Flush and Surface Retrofit Plate		Series NS Horn Strobe		Series Z and ST Strobe		Series MTH Multitone	
	80 IN	6 IN	80 IN	6 IN	80 IN	6 IN	80 IN	6 IN	80 IN	6 IN
(B) 1-Gang x 2" Deep - Flush (BO)	77 1/2"	8 1/2"			78 3/8"	7 5/8"	79 1/8"	6 7/8"		
(D) 4" x 4" x 1.5" Deep - Flush (BO)	77"	9"	83 15/16"		77 7/8"	8 1/8"	78 5/8"	7 3/8"	79 15/16"	6 1/16"
(E) 4" x 4" x 2.125" Deep - Flush (BO)	77"	9"	83 15/16"		77 7/8"	8 1/8"	78 5/8"	7 3/8"	79 15/16"	6 1/16"
(F) 2-Gang x 3.5" Deep - Flush (BO)	77 1/2"	8 1/2"			78 3/8"	7 5/8"	79 1/8"	6 7/8"	80 9/16"	5 7/16"
(G) 2-Gang x 1.75" Deep - Surface (BO)	77 1/2"	8 1/2"			78 3/8"	7 5/8"	79 1/8"	6 7/8"	80 9/16"	5 7/16"
(M) MT-SUR-BOX Surface & Weatherproof (SP)									79 3/8"	6 5/8"
(P) SBBS Surface (SP)									79 1/4"	6 3/4"
(Q) 4" x 4" x 2.125" Box w/ 1.5" Extension Ring - Flush (BO)										
(U) 5" Square Backbox w/ Extension Ring, Flush (BO)	69 1/2"	8 1/2"	83 7/16"		77 3/8"	7 5/8"	78 1/8"	6 7/8"	79 7/16"	5 9/16"
(X) SHBBS (SP) Shallow Surface	76 1/2"	9 1/2"			77 3/8"	8 5/8"	78 1/8"	7 7/8"		
(Y) 4" x 4" x 1.5" Box w/ 1.5" Extension Ring Plate (BO)										
(Z) SBL2S Surface (SP)			78"							
(FF) ZBB							78 1/8"	7 7/8"		

Backbox Mounting Options*	Series CH Chime Strobe		Series SET-V Speaker Strobe		Series SEF-C Speaker Strobe		Series SET-C Speaker Strobe	
	80 IN	6 IN	80 IN	6 IN	80 IN	6 IN	80 IN	6 IN
(P) SBB Surface (SP)	77 3/4"	8 1/4"	79 3/16"	6 13/16"	77 3/4"	8 1/4"	77 3/4"	8 1/4"
(Q) 4" x 4" x 2.125" Box w/ 1.5" Extension Ring - Flush (BO)	77 1/2"	7 1/2"	80	6"	78 1/2"	7 1/2"	78 1/2"	7 1/2"
(U) 5" Square Backbox w/ Extension Ring - Flush (BO)	78"	7"	79 1/2"	5 1/2"	78"	7"	78"	7"
(X) SHBB (SP) Shallow Surface								
(Y) 4" x 4" x 1.5" Box w/ 1.5" Extension Ring Plate - Flush (BO)	78 1/2"	7 1/2"	80"	6"				

* Measured from Bottom of Backbox

NOTES: (BO) = By Others (SP) = Siemens Product

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8/07 2M SBT/G

August 2007 - New Issue

Z Strobes, Horns, Horn/Strobes

Features

- UL listed. ULC, CSFM, and FM pending.
- ADA/NFPA compliant
- EZ Mount design, with separate base plate, provides ability to pre-wire the base and test the circuit wiring before the walls are covered
- The base plate is protected by a disposable cover and the appliances can quickly snap onto the base after the walls are painted.
- EZ Mount Universal Mounting Plate (ZBB) – uses single plate for ceiling and wall mount installations
- Wall Mount models feature field selectable candela settings of 15/30/75/110cd and 135/185cd
- Ceiling Mount models feature field selectable candela settings of 15/30/75/95cd and 115/177cd
- Strobes can be synchronized using the Siemens 5406B sync modules, MPC-6000 panel, MPC-7000 panel, or RSE-300 power supply with built-in sync protocol
- "Special Applications" listed with Siemens panels
- Strobes produce 1 flash per second
- Selectable Continuous Horn or Temporal (Code-3) Tones with selectable 90 or 95 dBA setting (ZH model)

Description

The Siemens Series Z notification appliances feature an easy snap on base that is designed to simplify the installation and testing of horns, strobes, and horn/strobes. The separate Series Z snap on base can be pre-wired so circuit wiring can be fully tested before the appliance is installed and before the walls are covered. Once all surrounding work is complete, the appliance can be simply installed by snapping it on the base. Shorting contacts in the base, which provide continuity for circuit testing, are permanently opened when the appliance is installed so any subsequent removal of the appliance will indicate a trouble condition on that circuit at the control panel when circuit supervision is enabled. The same base is used for all Series Z horns, strobes and horn/strobes to provide consistent installation and easy replacement of appliances if required. A locking screw is also included for the appliance to provide extra secure installation.

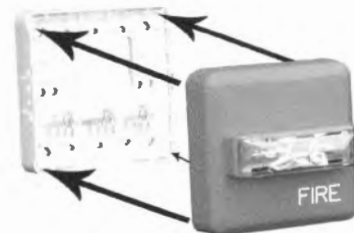
The Siemens Series Z appliances incorporate the same dependable circuitry and high efficiency optics that are used in Siemens ST strobes, NS horn/strobes and NH horns and have the same high performance ratings. The Series Z appliances are "Special Applications" listed with Siemens panels.



Series ZH



Series ZR



ZR AND ZH Mounting

Engineering Specifications

General

Audible/visual notification appliances shall be listed for indoor use and shall meet the requirements of FCC Part 15 Class B. These appliances shall be listed under UL Standard 1971, (Standard for Safety Signaling Devices for Hearing Impaired) and UL Standard 464 (Fire Protective Signaling). The appliances shall use a universal backplate that shall allow mounting to a single-gang, double-gang, 4-inch square, 4" octal, or a 3-1/2" octal backbox. Two wire appliance wiring shall be capable of directly connecting to the mounting back plate. Continuity checking of the entire NAC circuit prior to attaching any audible/visual notification appliances shall be allowed. A dust cover shall fit and protect the mounting plate. The dust cover shall be easily removed when the appliance is installed over the backplate. Removal of an appliance shall result in a trouble condition by the Fire Alarm Control Panel (FACP).

Strobes

Strobe appliances shall produce a minimum flash rate of 60 flashes per minute (1 flash per second) over the Regulated Input Voltage Range and shall incorporate a

Xenon flashtube enclosed in a rugged Lexan® lens. The strobes shall be available with two or four field selectable settings in one unit and shall be rated, per UL 1971, for up to 185 cd for wall mounting and 177 cd for ceiling mounting. The strobes shall operate over an extended temperature range of 32°F to 120°F (0°C to 49°C) and be listed for maximum humidity of 95% RH. Strobe inputs shall be polarized for compatibility with standard reverse polarity supervision of circuit wiring by a Fire Alarm Control Panel (FACP).

Audibles and Audible/Strobe Combinations

Horns and horn/strobes shall be listed for Indoor use under UL Standard 464. The horns shall be able to produce a continuous output or a temporal code-3 output that can be synchronized. The horns shall have at least 2 sound level settings of 90 and 95 dBA.

Synchronization Modules

When synchronization of strobes or temporal Code-3 audibles is required, the appliances shall be synchronized using the Siemens 5406B sync modules, MPC-6000 panels, MPC-7000 panels, or RSE-300 power supplies with built-in sync protocol. The strobes shall not drift out of synchronization at any time during operation. Au-

dibles and strobes shall be able to be synchronized on a 2-wire circuit with the capability to silence the audible if required. If the sync module or power supply fails to operate (i.e., contacts remain closed), the strobes shall revert to a non-synchronized flash rate. All notification appliances shall be listed for "Special Applications".

- Strobes are designed to flash at 1 flash per second minimum over their "Regulated Input Voltage Range".
- All candela ratings represent minimum effective strobe intensity based on UL Standard 1971.
- Series ZH Strobe products are listed under UL Standards 1971 and 464 for indoor use with a temperature range of 32°F to 120°F (0°C to 49°C) and maximum humidity of 93% (± 2%).
- Series ZH horns are listed under UL Standard 464 for audible signal appliances (Indoor use only).

Technical Information

For complete technical information, please consult the relevant installation sheets as well as the Siemens Compatibility Guide.

Ordering Information / Mounting Requirements / Approvals

Model Number	Order Code	Mounting Options#	Agency Approvals			
			UL	ULC	CSFM	FM
ZH-MC-R	500-636161	B, D, E, F	X	#	#	#
ZH-MC-W	500-636162	B, D, E, F	X	#	#	#
ZH-HMC-R	500-636163	B, D, E, F	X	#	#	#
ZH-HMC-W	500-636164	B, D, E, F	X	#	#	#
ZH-R	500-636159	B, D, E, F	X	#	#	#
ZH-W	500-636160	B, D, E, F	X	#	#	#
ZH-MC-CR	500-636165	B, D, E, F	X	#	#	#
ZH-MC-CW	500-636166	B, D, E, F	X	#	#	#
ZH-HMC-CR	500-636167	B, D, E, F	X	#	#	#
ZH-HMC-CW	500-636168	B, D, E, F	X	#	#	#
ZR-MC-R	500-636169	B, D, E, F	X	#	#	#
ZR-MC-W	500-636170	B, D, E, F	X	#	#	#
ZR-HMC-R	500-636171	B, D, E, F	X	#	#	#
ZR-HMC-W	500-636172	B, D, E, F	X	#	#	#
ZR-MC-CW	500-636174	B, D, E, F	X	#	#	#
ZR-MC-CR	500-636173	B, D, E, F	X	#	#	#
ZR-HMC-CR	500-636175	B, D, E, F	X	#	#	#
ZRS-HMC-CW	500-636176	B, D, E, F	X	#	#	#
ZBB-R	500-636193	Accessory - Includes base, dust cover, mounting screws and installation sheet				
ZBB-W	500-636194	Accessory - Includes base, dust cover, mounting screws and installation sheet				

X = listed/approved # = pending * = Refer to Data Sheet #9675 for mounting options.


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8709 Line Isolator Module for Use With MPC-6000 & 7000 Control Panels

Features

- Short Circuit Isolation
- Used on MPC-6000 & 7000 Intelligent Device Circuits
- Increased Fault Tolerance
- Style 4 or Style 6
- Up to 12 Per Loop
- Requires no Programming
- Does Not Occupy a Device Address
- Mounts in Either 4" Square, 2 1/8" Deep or a 3 1/2" Deep Double Gang Electrical Box
- Local LED Indicator
- Cover Plate Included
-  Listed, NYMEA and CSFM Submitted



Description

The 8709 loop isolator module provides short circuit protection on MPC-6000 & 7000 intelligent device circuits (FDLC). When a short is detected by the 8709, it isolates the affected segment of the circuit, allowing the remaining devices to continue operation. The 8709 is self-restoring, automatically reconnecting to circuit segment when the fault is removed.

The 8709 also includes a yellow LED which illuminates to indicate that the device has been activated. The 8709 mounts in either a 4" square, 2 1/8" deep or a 3 1/2" deep double gang electrical box and is supplied with a cover plate with an opening for the LED.

It can be wired in either a Style 4 or Style 6 configuration.

The 8709 does not occupy a device address on the intelligent device circuit and requires no programming. Up to twelve 8709s may be installed on each loop.

Ordering Information


Model	Description	Part No.
8709	Line Isolator Module	500-033170FA



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Models 8710, 8712, 8713 (FireSmart™) X1 Series Detectors**Features****Intelligent Detectors for use with MPC 6000 and 7000 Control Panels**

- Three models available Photo (8710), Photo-Thermal (8713) and 135°F Thermal, fixed and rate of rise (8712)
- High-Speed, Fault-Tolerant Communication
- Multi-color status L.E.D (green, amber, red)
- Field cleanable photo chamber
- Electronic addressing with field programmer model 8720
- Mounts in standard 8853 Series Base
- Low Profile Design
- Optional fully programmable relay base, audible base and duct housing
- Two Wire Operation
-  UL Listed, CSFM, NYMEA and FM Approved

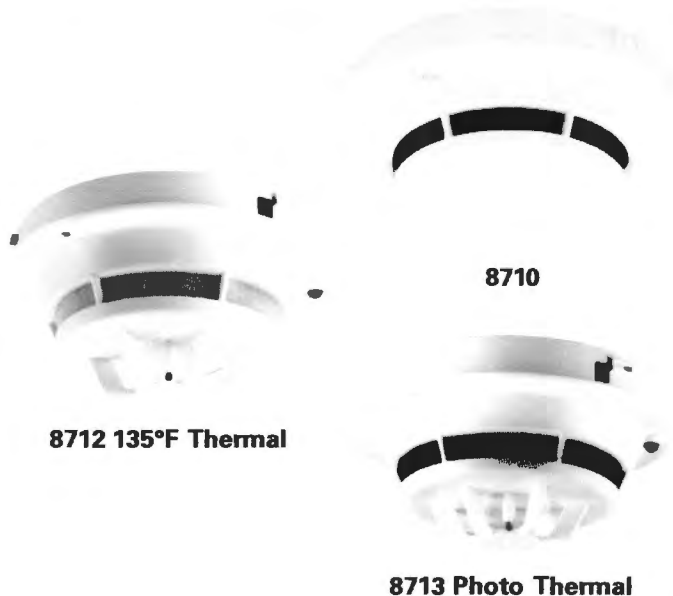
Introduction

The 8710 and 8713 intelligent photoelectric smoke detectors provide reliable smoke detection to meet today's critical life safety and property protection needs. The FireSmart series of detectors provide an extremely high degree of resistance to RFI, EMI and humidity. The FireSmart series detector utilizes a microprocessor with "on-board" EEPROM supporting the detectors sophisticated programming, error checking and self-diagnostic capabilities.

The 8710 is an intelligent smoke detector, the 8713 is a smoke detector with thermal assist, and the 8712 is a heat detector. The thermal sensors respond at 135°F. These devices are designed for use with the MPC-6000 and 7000 control panels and use the 8853 detector base.

Description

The 8710, 8712 and 8713 are two-wire, plug-in detectors that are compatible with the MPC-6000 and 7000 control panels. Each 8710 and 8713 have a dust resistant, field cleanable photo chamber and microprocessor based electronics. The 8712 and 8713 utilize a state-of-the-art thermistor for heat sensing. All detectors have low profile, high-temperature plastic covers for maximum protection of components and use surface mount electronic components for increased reliability. Every smoke detector is shipped with a red protective dust cover.



Smoke detectors utilize an infrared light emitting diode (IRLED) and a light sensing photodiode. Under normal conditions, light transmitted by the LED is directed away from the photodiode and scattered through the smoke chamber in a controlled pattern. The smoke chamber is designed to manage light dissipation and extraneous reflections from dust particles or other non-smoke airborne contaminants in such a way as to maintain stable, consistent detector operation. When smoke enters the chamber, light emitted from the IRLED is scattered by the smoke particles and is received by the photodiode.

When an alarm condition occurs, the detector "latches" in alarm and informed the control panel of its status. The detector is reset upon command from the control panel. The control panel also sets the detector's sensitivity.

Every time the control panel polls the detector, the multi-color LED will flash green to indicate that it has passed the internal self test and has communicated its status to the control panel. If the detector does not pass the self test, is dirty beyond the limits of its environmental compensation, or is in "trouble" in any way, the LED flashes amber and informs the panel of its status, allowing for easy identification of which detector is in trouble. When in alarm, the detector LED flashes red.

Detectors are assigned their address using the 8720 Field Programmer/Tester, which electronically stores address information in the detectors non-volatile memory. The 8720 can also be used for device testing and diagnostics.

The FireSmart series detectors can be on the same circuit as other 8700 series initiating devices such as manual stations, TRI Monitoring/Relay Modules, etc. Detectors are mounted in the standard 8853 or 8716 Relay Base, 8715 Audible Base, or 8840/8717 Duct Housing. Use the standard 8727C or 8727W (red) Remote Lamps when remote annunciation is required.

Smoke detectors are field cleanable per the instructions included on the installation sheet provided with the product. X1 series detectors are UL listed for operation within the standard UL specified temperature range of 32 to 100 degrees F (0 to 38 degrees C).

Application Data

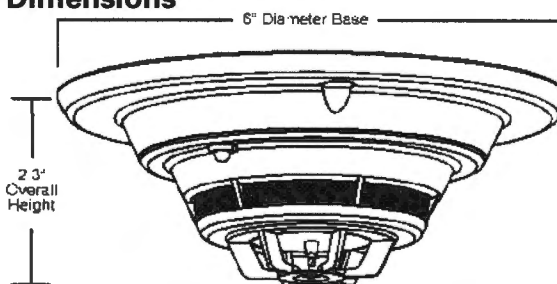
Installation of X1 series detectors require detector bases 8853, 8715, 8716, or 8840.

The 8710 and 8713 detectors can be applied within a maximum 30-foot center spacing (900 square foot area) as referenced in NFPA 72. This applications guideline is based on ideal conditions; specifically, smooth ceiling surfaces, minimal air movement and no physical obstructions between potential fire sources and the detector. Do not mount detectors in close proximity to ventilation or heating and air conditioning outlets. Exposed joints or beamed

ceilings may also affect safe spacing limitations of detectors. Should any questions arise regarding detector placement, observe NFPA 72 guidelines. Locating in close proximity to "noisy" electronic light ballasts or other sources of high level EMI or RFI should be avoided.

Good fire protection system engineering and common sense dictate how and when fire detection devices are installed and used. Contact your local Faraday authorized sales outlet whenever you need assistance applying these devices. Be sure to follow NFPA guidelines, the UL approved installation instructions provided with the product and local codes, as with any other fire protection equipment.

Dimensions



Technical Specifications

Operating Temperature

+32°F (0°C) to 100°F (38°C) per UL 269/268A

Humidity

0-93% Relative Humidity Non-Condensing

Current Draw

1 mA in alarm or stand-by mode

Ordering Information

Model	Description	Part No.
8710	Photoelectric Detector	500-034800FA
8713	Photo-Thermal Detector (FireSmart™)	500-033290FA
8712	135°F Fixed Thermal Detector	500-033380FA
8715	Audible Base	500-033210FA
8853	Detector Base	500-094151FA
8840	Air Duct Housing	500-095656FA
8717	Air Duct Housing with Relay	500-033280FA
8716	Relay Base	500-033220FA
8727W	Remote Lamp (red) for 4" octagon box	500-033310FA
8727C	Remote Lamp (red) for single gang box	500-033230FA
8720	Field Programmer	500-033260FA
8846	Detector base lock (Pkg. of 50)	500-695350FA



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**NO
EXCUSES!**



NFPA 72 section 6.2.2.1 states, "A record of installed software and firmware version numbers shall be maintained at the location of the fire alarm control unit." The FDB is large enough to hold Operating Manuals, Permits, Shut-Down Instructions and more.

Standard Features:

- Overall Dimensions are:
12" Wide x 13.1" High x 2.25" Deep
- CAT 30 Secured Locking Door
- Piano Hinged Door w/Notes Sticker
- Removable document holder can hold 1" of 8.5" x 11" paperwork
- Powder Coat Red Finish
- 16 Gauge CRS construction
- Embossed:
 - Key Ring Hooks
 - Business Card Holder
 - CD Case Slot
- 1.4 Oz. can of detector test gas
- Private labeling available



ISO 9001
REGISTERED
COMPANY



FDB

Fire Alarm Control Unit (FACU) Records & Document Box

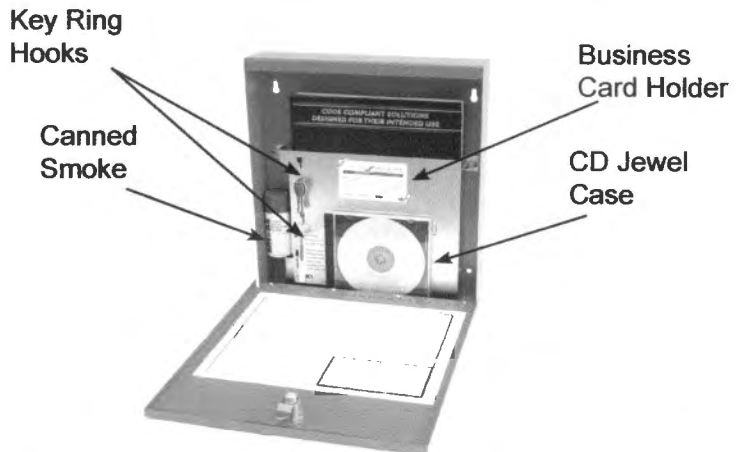
The Space Age FDB has been developed to be a code compliant solution to a mandated item specified by the National Fire Code (NFPA 72).

An internal galvanized sleeve holds the documents safely and securely. Access to the documents is via a high security CAT 30 Lock Set.

The galvanized sleeve also contains 2 hooks for key rings or thumb drives, a place for several business cards, a cutout for a 1.4 Oz. can of test gas and a slot where a standard CD "jewel" case can be stored.

Held in by two "wing nuts" the sleeve is easily removable to allow storage of a 1.5" 3 ring binder.

The door reads "FACU MAINTENANCE RECORDS" in 1" tall white lettering. Custom Logo and Lock Sets are available upon request.



REBOX

Space Age Electronics, Inc.
www.isae.com
800.486.1723 Toll Free
508.485.0966 Local
508.485.4740 Fax



Altronix®

AL602ULADA, AL802ULADA, AL1002ULADA **NAC Power Extenders**

Rev. AL602/802/1002ULADA- A051

Overview



The AL602ULADA, AL802ULADA and AL1002ULADA are extremely cost effective voltage regulated remote NAC Power Extenders. They may be connected to any 12 or 24 volt Fire Alarm Control Panel (FACP). Primary applications include Notification Appliance Circuit (NAC) expansion (supports ADA requirements) and will provide auxiliary power to support system accessories.

AL602ULADA

- 24VDC or 12VDC rated @ 6.5 amp max.
- Two (2) Class A or four (4) Class B outputs.

AL602ULADAJ

- Larger enclosure.

AL802ULADA

- 24VDC or 12VDC rated @ 8 amp max.
- Two (2) Class A or four (4) Class B outputs.

AL802ULADAJ

- Larger enclosure.

AL1002ULADA

- 24VDC rated @ 10 amp max.
- Two (2) Class A or four (4) Class B outputs.

AL1002ULADAJ

- Larger enclosure.

Specifications

- Two (2) Class A or two (2) Class B FACP inputs.
- Two (2) NC dry contact trigger inputs (AL802ULADA and AL1002ULADA only)
- Two (2) Class A or four (4) Class B indicating circuits.
- Two (2) Class B outputs may be paralleled for more power on an indicating circuit.
- One (1) Aux. Power Output @ 1 amp supply current (w/battery back up).
- Signal Circuit Trouble Memory - facilitates quickly locating intermittent system trouble and eliminates costly and unnecessary service calls. LED's indicate a prior fault (short, open, ground) has occurred on one or more signaling circuit outputs.
- 2-wire Horn/Strobe Sync mode allows audible notification appliances (Horns) to be silenced while visual notification appliances (Strobes) continue to operate.
- Horn/Strobe sync protocols include: Gentex®, System Sensor®, Faraday, Amseco.
- Temporal Code 3 Mode.
- Steady Mode.
- Input to Output Follower Mode (maintains synchronization of notification appliance circuits).
- March Time.
- Compatible with 24VDC or 12VDC fire panels.
- Common trouble inputs and outputs.
- Ground fault detection.
- Input 115VAC.
- AC fail supervision (form "C" contacts).
- Low battery supervision (form "C" contacts).
- Battery presence supervision (form "C" contacts).
- Power supply, logic board, red enclosure, cam lock, transformer & battery leads.
- Enclosure:
 - Combination knockouts re 1/2" and 3/4"
 - Accommodates up to two (2) 12VDC/12AH batteries.

Agency Approvals



UL Listed Control Units and Accessories for Fire Alarm Systems (UL 864), UL Listed Standard for Safety for Fire Protective Signaling Systems (UL 1481).



California State Fire Marshal Approved.



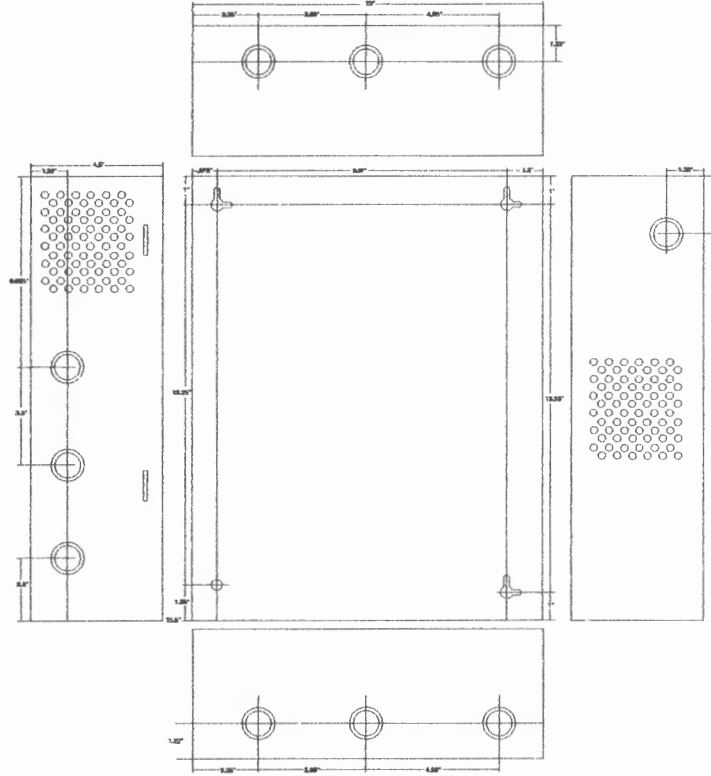
ME Approved NYC Department of Buildings Approved.



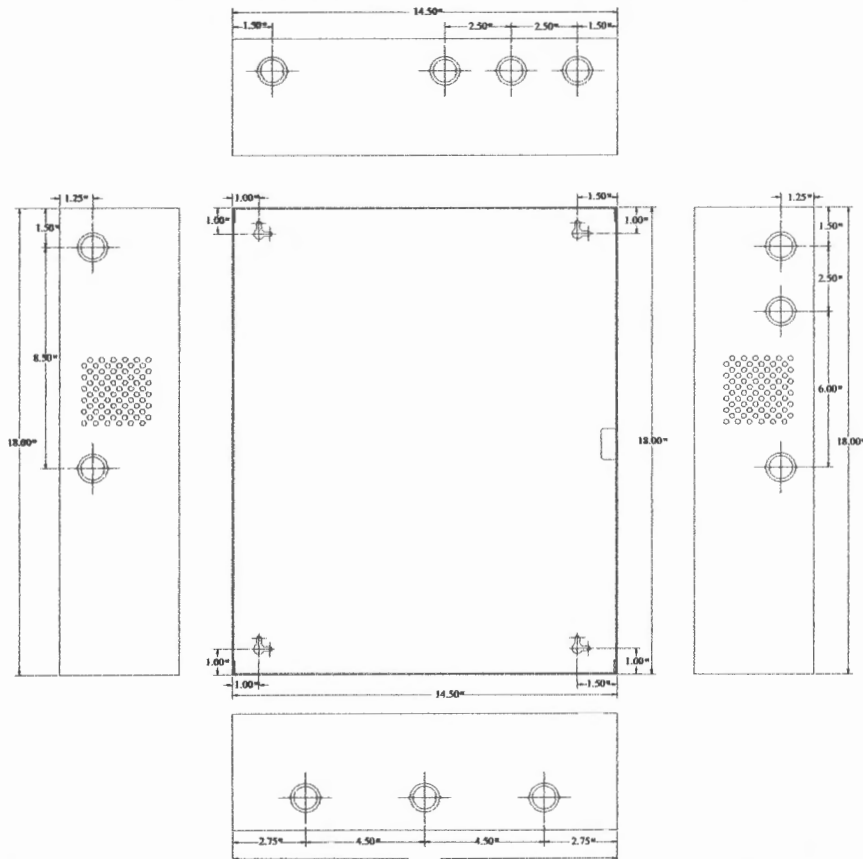
Factory Mutual Approved.

Enclosure Dimensions

AL602ULADA, AL802ULADA and AL1002ULADA: 15.5"H x 12"W x 4.5"D



AL602ULADAJ, AL802ULADAJ and AL1002ULADAJ: 18"H x 14.5"W x 4.625"D



Series PM6600 & PM6700 Manual Non-Code Keyed Stations**Features**

- MM101 Key Switch Cover
- Sturdy Metal Construction
- Enclosed Switch with Optional Glass Rod
- 10 Amp @ 120Vac, 5 Amp @ 24Vdc Switch Contact Rating
- Stations Available are: Single Action, Dual Action, Pre-Signal / General Alarm, Institutional, Weatherproof, and Explosion Proof
- UL, CSFM Listed & MEA approved
- Made in USA

Description

The PM6600/6700 series meets the requirements of the keyed reset station in every way. By using the standard Faraday MM101 series key, the user eliminates the need to search through many different reset keys. All stations are constructed of a solid die cast housing and come painted glossy red. The back switch plate is made of thick 14 Ga. plated steel and comes in a one gang size.

The electrical switch has a hefty 10 Amp @ 120 Vac normally open contact rating. All stations come with terminal block connections with the exception of the single action stations. These may be ordered with terminal blocks or pigtails (See ordering information for a more detailed description).

Explosion proof and weatherproof units come complete with their own back box. Optional PM6767 matching red surface interior back boxes are also available.

Operation**Alarm**

To activate the manual station, a firm downward pull of the recessed pull lever is required. Such action locks the lever in the down position, breaks the glass rod, (if used) and actuates the switch creating an alarm condition.

Reset

To restore an operated manual station to normal standby condition requires the use of a standard Faraday MM101 key. The lock, located at the top of the station, is turned with an inserted MM101 key.

PM6608/
PM6700 (right) &
PM 6696 (below)



This lets the front of the station swing down and allows the recessed pull down lever to be reset in the normal up position. Replacement of the glass rod (if used) is not necessary to reset the station. However, spare glass rods can be stored inside the station. To lock the station swing the front of the station back up to its original position and turn the MM101 key in the previously operated position.

Engineering Specification

Furnish and install where located on the drawings Faraday non-code pull stations. The stations should be pull down operation type with operation instructions provided on the station in raised letters. The station should be of metal construction, finished in fire alarm red/white, and shall be capable of proper operation with or without a break glass rod. Stations using any plastic parts other than the switch body, or requiring the use of a break glass rod to maintain a standby condition shall not be acceptable.

Upon operation the pull down lever shall lock into the alarm position and remain so until manually reset. A common Faraday MM101 key shall be required to gain access for resetting the station, testing the station or replacing the glass rod. Stations with test features that do not test the actual station actuating switch shall not be acceptable.

Stations shall contain one or more normally open alarm contacts. Wiring to the fire alarm system initiating circuit shall be via pressure type screw terminals or pigtail wires with in and out wiring required.

Specifications

Electrical

Contacts – All contacts except General Alarm: 10A @ 120 Vac, General Alarm: 5A @ 30 Vdc

Dimensions

4-3/4" (H) x 3-3/16" (W) x 7/8" (D)

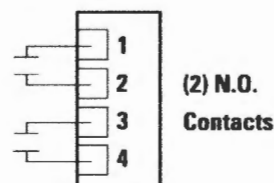
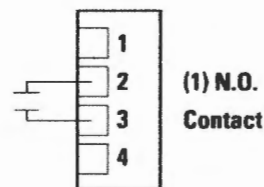
Weight

15-1/2 oz.

Mounting

Single gang box

Wiring



Ordering Information

Model	Description	Part No.
Single Action Stations		
PM6700	(RMS-1P-KL) Station, N.O., Pigtails	500-648504FA
PM6608	(RMS-1T-KL) Station, N.O., Terminals	500-648505FA
Dual Action Stations		
PM6696	(RMS-2T-LP-KL) Station, (2) N.O., Terminals	500-648507FA
Pre-Signal/General Alarm Stations		
PM6695	(RMS-1T-KS-KL) N.O. Pre-sig, N.O. Terminals	500-648265FA
Weatherproof Stations		
PM6699	(RMS-2T-WP-KL) (2) N.O. Terminals	500-648266FA
Accessories		
PM6698	(BB) Surface Back Box, Interior	500-648506FA
PM7601	Glass Rods (pack of 10)	500-648245FA
10531	(ST11130) Cover, surface mount w/horn	500-648563FA
10538	(ST11130) Cover, flush mount, w/ horn	500-648591FA
10539	(ST11200) Cover, flush mount, w/o horn	500-648253FA



Siemens Building Technologies, Inc.
8 Fernwood Road • Florham Park, NJ 07932
Tel: (973) 593-2600 • Fax: (973) 593-6670
Web: www.faradayfirealarms.com

WARNING - The information contained in this document is intended only as a summary and is subject to change without notice. The devices described in this document have specific instruction sheets which cover various technical, limitation and liability information. Copies of these instruction sheets and the General Product Warning and Limitations Document, which also contains important information, are provided with the product and are available from the Manufacturer. Information contained in these documents should be consulted before specifying or using the product. For further information or assistance concerning particular problems contact the Manufacturer.

NOTES

1. SEE E000 FOR ELECTRICAL LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. SEE SHEET A103 FOR ADDITIONAL PHASING INFORMATION.
3. CONNECT NEW EXIT/EMERGENCY LIGHTS TO LOCAL 120V LIGHTING CIRCUIT.
4. CONNECT NEW FIRE ALARM DEVICES TO EXISTING FIRE ALARM SYSTEM CONTROL PANEL LOCATED IN ELECTRICAL ROOM. VERIFY THAT EXISTING SYSTEM HAS THE CAPABILITY AND BATTERY CAPACITY TO SUPPORT ADDITIONAL DEVICES SHOWN. PROVIDE ALL AUXILIARY EQUIPMENT, BATTERIES, PROGRAMMING AND COMMISSIONING FOR A COMPLETE INSTALLATION. EXISTING FIRE ALARM CONTROL PANEL IS MANUFACTURED BY FARADAY MODEL # MFC-8000. INSTALLATION OF ALL NEW FIRE ALARM COMPONENTS SHALL BE COORDINATED WITH PROTECTION PROFESSIONALS OF FALMOUTH, ME. PHONE # (207)-775-9755 TO ENSURE PROPER INTEGRATION FOR A COMPLETE AND OPERABLE SYSTEM.

5. THE BUILDING DOES NOT CONTAIN A SPRINKLER SYSTEM FOR FIRE SUPPRESSION. NEW SMOKE DETECTORS AND NOTIFICATION DEVICES SHALL BE FURNISHED AND INSTALLED AS SHOWN. IN THE EVENT A DEVICE IS NOT SHOWN WHERE IT IS REQUIRED BY CODE, CONTRACTOR SHALL FURNISH AND INSTALL DEVICES AS NECESSARY TO COMPLY WITH CODE.
6. FIXTURES DENOTED AS "EX" ARE EXISTING FIXTURES THAT HAVE BEEN RE-INSTALLED IN NEW CEILING AND SERVICED AS REQUIRED BY NOTE 5 ON SHEET E200.
7. LIGHT SWITCHES, DEVICES, AND FIXTURES SHOWN IN BOLD DENOTED WITH LETTER DESIGNATIONS (I.E. "A") SHALL BE FURNISHED AND INSTALLED AS NEW.

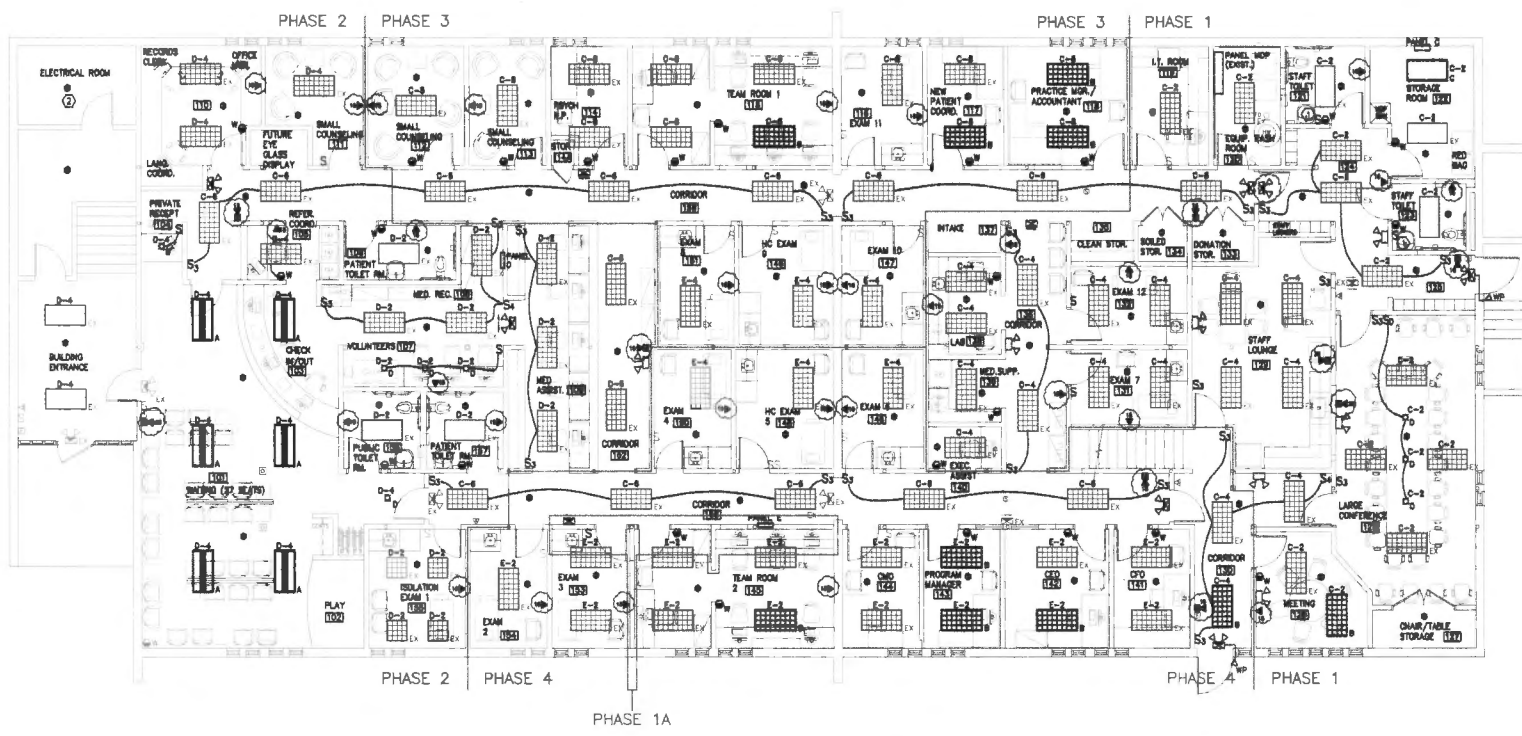
KEYED NOTES:

1. FURNISH TIME DELAY SWITCH FOR BATHROOM EXHAUST FANS. CONNECT EXHAUST FAN TO BATHROOM LIGHTING CIRCUIT. COORDINATE SWITCH WITH EQUIPMENT FURNISHED.
 2. VERIFY EXISTING SMOKE DETECTOR IN PACE ROOM. FURNISH AND INSTALL NEW SMOKE DETECTOR IF THERE IS NO EXISTING DETECTOR IN ROOM.
- REVISIONS PER FIRE MARSHALL REVIEW COMMENTS 10.18.12



Wilton Scott Architects
5 Main Street
Portland, Maine 04101
207.774.4811
www.wiltonscott.com

Architecture / Planning
Preservation Architecture
Interior Architecture



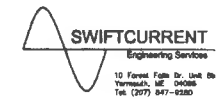
1 ELECTRICAL LIGHTING LAYOUT
SCALE 3/16" = 1'-0"

Portland
Community
Health Center

180 Park Avenue
Portland, Maine

CONSTRUCTION DOCUMENTS
August 31, 2012

ELECTRICAL LIGHTING
PLAN
3/16" = 1'-0"



E 201

LEGEND - SLC CIRCUITS AND NAC CIRCUITS

(1) GENERAL NOTES:

- A. FIRE ALARM SYSTEM WIRING SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE, APPLICABLE STATE AND LOCAL CODES, AND SHALL BE COORDINATED WITH THE LOCAL AUTHORITY HAVING JURISDICTION.
- B. CAUTION: DO NOT CONNECT ANY POWER TO THE CONTROL PANEL (BATTERIES OR 120V AC) UNTIL ALL OTHER FIELD WIRING IS TESTED AND CONNECTED.
- C. DO NOT INSTALL FIRE ALARM CONTROL PANEL OR SMOKE DETECTORS IN AN UNHEATED AREA.
- D. DO NOT INSTALL ANY AC CURRENT-CARRYING CONDUCTORS CLOSE TO OR IN THE SAME RACKS WITH FIRE ALARM SYSTEM CONDUCTORS.
- E. SOLID LINES REPRESENT CONNECTIONS TO BE MADE BY THE SYSTEM INSTALLER.
- F. ALL RELAYS ARE SHOWN IN NORMAL SUPERVISORY CONDITION. ALL RELAYS ARE FORM "C" TYPE.

INSTALLATION NOTES

- A. SMOKE DETECTORS SHALL NOT BE MOUNTED ANY CLOSER THAN 3" FROM ANY AIR DUCT (OPENINGS).
- B. ELEVATOR LOBBY SMOKE DETECTORS SHALL BE MOUNTED WITHIN 10' OF THE ELEVATOR DOOR.
- C. MANUAL PULL STATIONS SHALL BE MOUNTED PER ADA REQUIREMENTS: 48" AFF OR 42" AFF TO COMPLY WITH SIDE/FRONT REACH REQUIREMENTS.
- D. WALL MOUNTED HORN/STROBES & STROBES SHALL BE MOUNTED 6" FROM CEILING, OR 96" TO 80" AFF TO THE CENTER OF STROBE.
- E. HORN/STROBES & STROBES SHALL BE MOUNTED 15' FROM THE CORNER OF THE WALL. IF THIS IS NOT POSSIBLE, DEVICE SHALL BE CENTERED ON THAT WALL.
- F. CEILING MOUNTED HALLWAY DEVICES SHALL BE LOCATED IN A SYMMETRICAL MANNER DOWN CENTER OF HALLWAY WHEN POSSIBLE.

- (2) SEE INITIATION CIRCUITS AND NAC CIRCUITS FOR INTEGRATION OF BOTH SLC AND NAC CIRCUITS
- (3) ALL CABLING IS 14/2 FOR THE NAC CIRCUITS UNLESS OTHERWISE SHOWN
- (4) ALL CABLING IS 16/2 FOR THE SLC CIRCUITS UNLESS OTHERWISE SHOWN
- (5)

- | | |
|--|---------------------------------------|
| AC = ALARM CONTROL MODULE | K = KNOX BOX |
| R = ARM = ADDRESSABLE RELAY MODULE | LP = LOW AIR |
| AV = AUDIO VISUAL DEVICE | MM = MINI MODULE |
| (SET TO 75ohm UNLESS NOTED OTHERWISE) | PM = PULL STATION MINI MODULE |
| B = EXTERIOR BEACON | PS = PRESSURE SWITCH |
| CO = CO DETECTOR | RI = REMOTE INDICATOR |
| D = DUAL MODULE | S = SMOKE |
| DUCT=DUCT DETECTOR MINI MODULE | SA = SMOKE WITH AUDIBLE BASS |
| F = FLOW | T = TAMPER |
| FACP = MAIN FIRE PANEL | TS = TEST SWITCH |
| FS = FIRESMART SMOKE DETECTOR | V = VISUAL DEVICE ONLY |
| H = HEAT DETECTOR | (SET TO 75ohm UNLESS NOTED OTHERWISE) |
| CB = CIRCUIT BREAKER-ISOLATION MODULES | MH = MINI HORN |
| T.S. = TWISTED SHIELDED | RTS = REMOTE TEST MODULE |
| S/CO = SMOKE/CO DETECTOR (00HC341) | PS = PULL STATION |
| | CL = CORRIDOR LIGHT |



CONSULTANT:

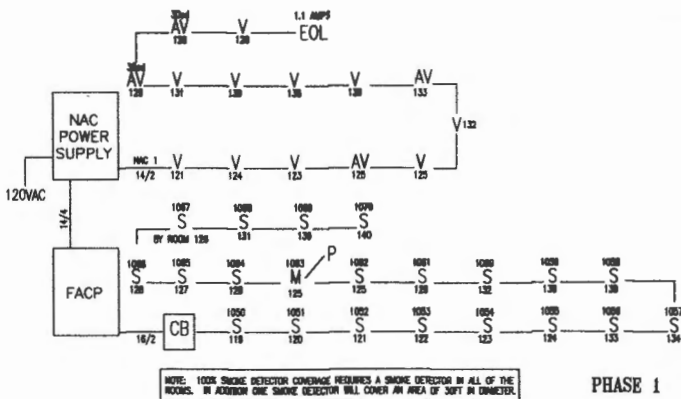
Portland Community Health Center
180 Park Avenue
Portland, ME

PROJECT:

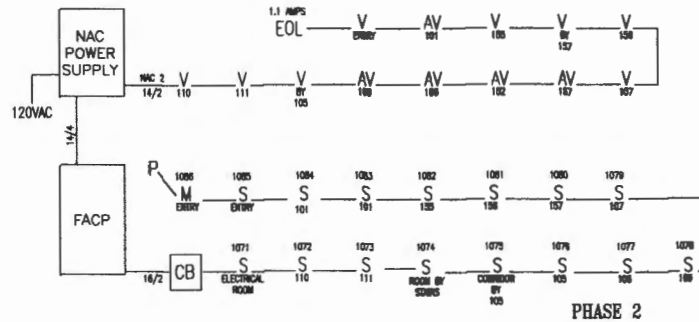
RISERS
PHASE 1 - 2 - 3 - 4

REVISIONS

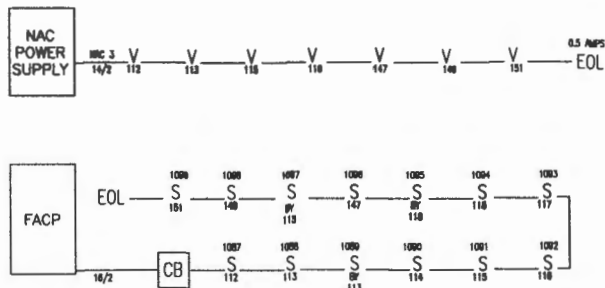
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SCALE: N/A
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APPROVED BY: -
SHEET: 1



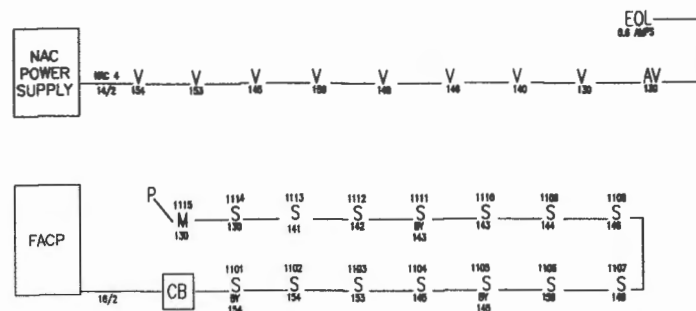
PHASE 1



PHASE 2



PHASE 3



PHASE 4

Protection Professionals

325 US Route 1
 Falmouth, ME 04105
 Ph 207-775-5755
 Fax 207-781-2064

Device List

No. 4622

List Date
11/6/2012

Bill To Name / Address
Efficiency Electric Inc 356 Center Road Windham, Maine 04062

Job Site
Portland Community Health Park Medical Building 180-190 Park Avenue Portland, ME 04102

CHANGING THIS DEVICE LIST DOES NOT ALTER THE ORIGINAL ESTIMATE
Attach copy to Purchase Order for accounting

Estimate No.

Item	Description	Qty To Order	Qty Ordered
Bat 12-18	Phase I		
500-033170FA	Battery	2	
500-033290FA	8709 Isolator Module	2	
500-094151FA	8713 Photo/Thermal Detector (FireSmart)	21	
500-648507FA	2 Wire Detector Base	21	
500-034000FA	MANUAL PULL STATION DUAL ACTION KEY RESET CAST METAL	1	
500-636161	8701 Mini-Module for Contact Devices	1	
500-636169	ZH-MC-R Horn/strobe, red, wall mount, Hi or Lo volume, 15cd, 30cd, 75cd, or 110cd	4	
AX-AL1002ULADA	ZR-MC-R Strobe only, red, wall mount, 15cd, 30cd, 75cd, or 110cd	10	
Bat 12-7	NAC power supply, 10 amps, two Class A and four Class B circuits at 2.5 amps/circuit, 1 amp Aux power	1	
06-SSU00672	12V 7AH Batteries SEC-1075	2	
	Fire Document box 12 inches wide X 13.1 inches high X 2.25 inches deep, CAT 30 keyed	1	
	Phase II		
500-033170FA	8709 Isolator Module	1	
500-033290FA	8713 Photo/Thermal Detector (FireSmart)	14	
500-094151FA	2 Wire Detector Base	14	
500-648507FA	MANUAL PULL STATION DUAL ACTION KEY RESET CAST METAL	1	
500-034000FA	8701 Mini-Module for Contact Devices	1	
500-636161	ZH-MC-R Horn/strobe, red, wall mount, Hi or Lo volume, 15cd, 30cd, 75cd, or 110cd	3	
500-636169	ZR-MC-R Strobe only, red, wall mount, 15cd, 30cd, 75cd, or 110cd	10	
	Phase III		
500-033170FA	8709 Isolator Module	1	
500-033290FA	8713 Photo/Thermal Detector (FireSmart)	13	

Ordered By: _____

Date: _____

Received By: _____

Date: _____

Protection Professionals

325 US Route 1
 Falmouth, ME 04105
 Ph 207-775-5755
 Fax 207-781-2064

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 Attach copy to Purchase Order for accounting

Estimate No.

Item	Description	Qty To Order	Qty Ordered
500-094151FA	2 Wire Detector Base	13	
500-636169	ZR-MC-R Strobe only, red, wall mount, 15cd, 30cd, 75cd, or 110cd	7	
500-033170FA	Phase IV 8709 Isolator Module	1	
500-033290FA	8713 Photo/Thermal Detector (FireSmart)	14	
500-094151FA	2 Wire Detector Base	14	
500-648507FA	MANUAL PULL STATION DUAL ACTION KEY RESET CAST METAL	1	
500-034000FA	8701 Mini-Module for Contact Devices	1	
500-636161	ZH-MC-R Horn/strobe, red, wall mount, Hi or Lo volume, 15cd, 30cd, 75cd, or 110cd	2	
500-636169	ZR-MC-R Strobe only, red, wall mount, 15cd, 30cd, 75cd, or 110cd	7	
	State of Maine Sales Tax		

Ordered By: _____

Date: _____

Received By: _____

Date: _____