

Form # P 04

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

CITY OF PORTLAND

DEPT. OF BUILDING INSPECTION
CITY OF PORTLAND, ME

Please Read
Application And
Notes, If Any,
Attached

Permit Number: 0608066

RECEIVED

This is to certify that PARKER VAUGHAN STREET LLC d/b/a, Inc

has permission to Install fire alarm system

AT 249 VAUGHAN ST L 054 E033001

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

Apply to Public Works for street line and grade if nature of work requires such information.

Notification of inspection must be given and when permission procured before this building or part thereof is loaded or enclosed-in. 24 HOUR NOTICE IS REQUIRED.

A certificate of occupancy must be procured by owner before this building or part thereof is occupied.

OTHER REQUIRED APPROVALS
Fire Dept. _____
Health Dept. _____
Appeal Board _____
Other _____
Department Name _____

Chris August
6/8/06
Director - Building & Inspection Services

PENALTY FOR REMOVING THIS CARD

City of Portland, Maine - Building or Use Permit Application

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

Permit No: 06-0805	DEPT. OF BUILDING INSPECTION CITY OF PORTLAND, ME	
		054 F033001

Location of Construction: 249 VAUGHAN ST	Owner Name: PARKER VAUGHAN STREET LL	Owner Address: 477 CONGRESS ST 14TH FLOOR	Phone: 2078833473
Business Name:	Contractor Name: Norris, Inc.	Contractor Address: 2257 W Broadway South Portland	Phone: 2078833473
Lessee/Buyer's Name	Phone:	Permit Type: Fire Alarm System	Zone:

Past Use: Multi - unit	Proposed Use: Multi-unit/ install fire alarm system	Permit Fee: \$75.00	Cost of Work: \$5,650.00	CEO District: 2
Proposed Project Description: Install fire alarm system		FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied Sprinkler sys. to be connected		INSPECTION: Use Group: FIRE Type: 6/8/06 Signature: [Signature]
		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: 05/30/2006	Zoning Approval		
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"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Date: _____	Zoning Appeal <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date: _____	Historic Preservation <input 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: _____

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 _____

City of Portland, Maine - Building or Use Permit

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

Permit No: 06-0806	Date Applied For: 05/30/2006	CBL: 054 F033001
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Location of Construction: 249 VAUGHAN ST	Owner Name: PARKER VAUGHAN STREET LL	Owner Address: 477 CONGRESS ST 14TH FLOOR	Phone:
Business Name:	Contractor Name: Norris, Inc.	Contractor Address: 2257 W Broadway South Portland	Phone (207) 883-3473
Lessee/Buyer's Name	Phone:	Permit Type: Fire Alarm System	

Proposed Use: Multi-unit/ install fire alarm system	Proposed Project Description: Install fire alarm system
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Dept: Building	Status: Pending	Reviewer: Mike Nugent	Approval Date: 06/08/2006
Note:	Ok to Issue: <input checked="" type="checkbox"/>		
1) Must comply with NFPA 72			
Dept: Fire	Status: Approved with Conditions	Reviewer: Cptn Greg Cass	Approval Date: 06/05/2006
Note:	Ok to Issue: <input checked="" type="checkbox"/>		
1) Sprinkler system shall be connected to Fire alarm.			



General Building Permit Application

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

Location/Address of Construction: <u>249 VAUGHN STREET, PORTLAND, ME</u>		
Total Square Footage of Proposed Structure		Square Footage of Lot
Tax Assessor's Chart, Block & Lot Chart# Block# Lot#	Owner: <u>DAVID PARKER</u>	Telephone: <u>671-3055</u>
<u>54</u> <u>F</u> <u>33</u>		
Lessee/Buyer's Name (If Applicable)	Applicant name, address & telephone:	Cost of Work: <u>\$5650</u>
	<u>NORRIS, INC</u> <u>2257 W. BROADWAY</u> <u>SOUTH PORTLAND, ME 04116</u> <u>(207) 883-3473</u>	Fee: \$ <u>75.00</u>
		C of O Fee: \$ <u>0</u>
Current Specific use: _____		
If vacant, what was the previous use? _____		
Proposed Specific use: <u>Bed & BREAKFAST</u>		
Project description:		
<u>FIRE ALARM SYSTEM INSTALLATION</u>		
Contractor's name, address & telephone: <u>NORRIS, INC 2257 WEST BROADWAY SOUTH PORTLAND, ME</u> <u>04116</u>		
Who should we contact when the permit is ready: <u>JASON ROBERTS</u>		
Mailing address: _____ Phone: <u>883-3473</u>		

Please submit all of the information outlined in the Commercial Application Checklist. Failure to do so will result in the automatic denial of your permit.

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information visit us on-line at www.portlandmaine.gov, stop by the Building Inspections office, room 315 City Hall or call 874-8703.

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

Signature of applicant: <u>Peter D. Ruf</u>	Date: <u>5/30/06</u>
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This is not a permit; you may not commence ANY work until the permit is issued.

N

NORRIS, INC.

LOSS PREVENTION

BUILDING AUTOMATION

COMMUNICATIONS

SUBMITTAL PACKAGE

Project: 249 Vaughn Street,
Portland, Maine

System: Fire Alarm System

**Submitted
By:** Norris Inc.
2257 West Broadway
South Portland, Maine 04106
Telephone: (800) 370-3473

**Project
Manager:** Corey Chapman

**Electrical
Contractor:** Norris Inc.

Date: May 30, 2006

Norris, Inc.

2257 W. Broadway

South Portland, Maine 04106

24506

5/30/2006 Page: 1

800-370-3473

**** SUBMITTAL ****

NEW CUSTOMER

David Parker

249 Vaughn Street
Portland, ME 04101

NEWCUS.

Purchase Order #: DAVID PARKER

: **249 Vaughn St., Fire Alarm Revised**

Qty	Mfg-Item No.	Description
1	SFP-1024	Fire Alarm Control, Ten-Zone, Class B; 24VDC, 8 amp power supply,
2	PS-12120	Battery 12ah
2	MO-RJ31X	DACT RJ31X UL Telco Jack
2	MO-804R8	DACT phone cord - 8C 7 Foot
5	RMS1TKL	Pullstation, Red Die Cast (Notifier key)
1	2W-B	Photo Detector, 2-wire, 12/24 Vdc, Photo.
2	SPECIAL	Interconnect with sprinkler flow and tamper switches (FBO)
4	NS-24MCW-FR	Horn/Strobe 24 VDC 15/30/75/110 cd, Red
2	RSS-24MCW-FR	Strobe 24 VDC 15/30/75/110 cd, Red
9	MIZ-24S-R	24 VDC, CONTINUOUS/TEMPORAL, RED



NORRIS, INC.

LOSS PREVENTION

BUILDING AUTOMATION

COMMUNICATIONS

FAX TRANSMISSION – NORRIS, INC. FAX # (207) 879-0540

IMPORTANT INFORMATION FOR THE BUILDING OWNERS

SPECIAL NOTE REGARDING ALARM MONITORING SERVICES

Included within your alarm system package is a digital communicator, which sends a coded message to a private 24-hour central station if your alarm system is activated. This is a code requirement for most fire alarm systems. As a service to our customers, we offer central station monitoring services from our local UL Listed central station at extremely competitive rates.

If the central station monitoring contract is purchased through Norris Inc. prior to our scheduled start-up; we will connect, program, and test the communicator at no additional charge.

Should the building owners decide to obtain monitoring services from another company, then the costs for programming and testing the communicator will be the sole responsibility of the firm they have contracted with. Furthermore, if programming changes are made to the system by persons other than Norris Inc. technicians, then the company performing the changes shall be solely liable for any personal injury or loss of life or damage to or loss of property arising out of the use of or inability to use the system and it shall result in a waiver of any system warranties.

We appreciate that you understand the delicate nature of this life safety and/or security system and realize that serious problems may arise when modifications to the system are made including very simple programming changes.

Call Norris Inc. at 1-800-370-FIRE (3473) to make arrangements for central station monitoring services.

Any problems with this fax, please call (207) 883-3473 immediately
Shipping address: Norris Inc., 2257 West Broadway, South Portland, Maine 04106
Mailing address: Norris Inc., P.O. BOX 2551, South Portland, Maine 04116-2551



This is to certify that

NORRIS, INC.

is an authorized Engineered Systems Distributor for NOTIFIER

Signed for and on behalf of NOTIFIER



Vice President Domestic Sales

NOTIFIER, A Honeywell Company



Underwriters Laboratories Inc. ®

Northbrook, IL Santa Clara, CA
Melville, NY Research Triangle Park, NC
Camas, WA

A not-for-profit organization dedicated to public safety
and committed to quality service

Applicant ID No: 238321-001
Service Center No 0
Expires: 31-MAR-2007

CERTIFICATE OF COMPLIANCE

THIS IS TO CERTIFY that the Alarm Service Company indicated below is included by Underwriters Laboratories Inc. (UL) in its Product Directories as eligible to use the UL Listing Mark in connection with Certificated Alarm Systems. The only evidence of compliance with UL's requirements is the issuance of a UL Certificate for the Alarm System and the Certificate is current under UL's Certificate Verification Service.

Listed Service From: **SCARBOROUGH, ME**

Alarm Service Company: (238321-001)

Service Center: (238321-001)

NORRIS INC
2257 W BROADWAY
SOUTH PORTLAND ME 04106

NORRIS INC
2257 W BROADWAY
SOUTH PORTLAND ME 04106

The Alarm Service Company is Listed in the following Certificate Service Categories:

<u>File - Vol No.</u>	<u>CCN</u>	<u>Listing Category</u>
S5129 - 1	UUJS	[Signal and Fire Alarm Equipment and Services] (Protective Signaling Services) Local, Auxiliary, Remote Station and Proprietary

*****THIS CERTIFICATE EXPIRES ON 31-MAR-2007 *****

"LOOK FOR THE UL ALARM SYSTEM CERTIFICATE"

Engineering Manager
15-MAR-2006

NATIONAL FIRE PROTECTION ASSOCIATION

Norris Inc.

is a member of good standing
and is entitled to all rights and privileges
of membership.

Robert W. Grant
NFPA PRESIDENT

November 1988

DATE OF ISSUE



PEOPLE PROTECTING PEOPLE

NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES®

HEREBY CERTIFIES THAT

David S. Gagnon

HAS ATTAINED THE GRADE OF

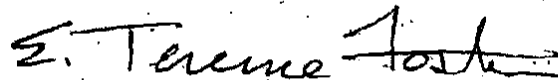
LEVEL IV

IN FIRE PROTECTION ENGINEERING TECHNOLOGY
FIRE ALARM SYSTEMS

AND RECOGNIZES THAT THROUGH EDUCATION,
EXPERIENCE, AND KNOWLEDGE THIS PERSON HAS
MET THE STANDARDS SET FORTH BY THIS INSTITUTE

Certification Valid through April 1, 2008

CERTIFICATION NUMBER 88203



CHAIRMAN OF THE BOARD OF GOVERNORS, NICET

SPONSORED BY THE NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS





NOTIFIER®

February 19, 2004

DN-5635 • 8-300

SFP-1024 Fire Alarm Control Panel With Built-In DACT

Section: Conventional Fire Alarm Control Panels

GENERAL

The NOTIFIER SFP-1024 is a 24-volt, ten-zone fire alarm control panel with a built-in communicator and remote-site upload/download capability. The integral communicator transmits event information (alarms, troubles, supervisories, faults, etc.) to a UL Listed central station. Selectable transmission formats allow the SFP-1024 to communicate to virtually all central stations.



MEA
122-96-E
Vol. II



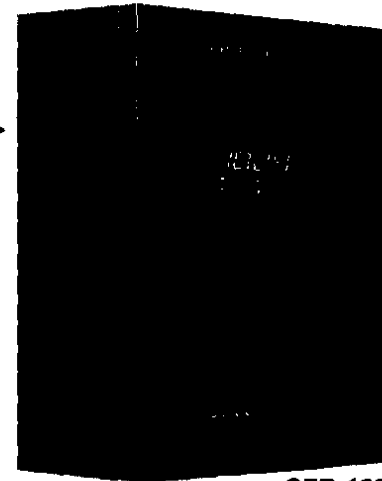
California
State Fire
Marshal
7165-0028:185

FEATURES

- Ten programmable Initiating Device Circuits (zones). Each zone may be programmed for:
 - ✓ Two-wire smoke detectors.
 - ✓ Normally open contact devices (pull, heat).
 - ✓ Four-wire smoke detectors.
 - ✓ Waterflow operation (silenceable or nonsilenceable).
 - ✓ Supervisory operation.
 - ✓ Auto-reset supervisory operation.
 - ✓ Remote switch for Reset, Drill, Silence and Acknowledge.
 - ✓ Auto-reset or latching, critical and noncritical process monitoring.
- Zones programmed for process monitoring require a contact closure for activation and can be used to monitor:
 - ✓ Temperature (high/low temp).
 - ✓ Water level. ✓ Gas detection. ✓ Loss of air flow.
 - ✓ Refrigeration. ✓ Tamper (non-fire). ✓ Open/Close.
- Two built-in, Class B (Style Y) Notification Appliance Circuits (NAC). ✓ Expandable to four. ✓ Class A option.
- Notification appliance circuits may be programmed:
 - ✓ Silenceable.
 - ✓ Non-Silenceable (a strobe circuit can keep flashing after the panel is silenced).
 - ✓ Auto-Silence (program 5 to 30 minutes).
 - ✓ Silence Inhibit (60 seconds).
 - ✓ Coding (March Time, Temporal, California).
- 6.0 amps notification appliance power meets the critical power requirements for ADA and UL 1971 devices.
- Two built-in, fully programmable, Form-A relays — expandable to four with two Form-C relays.
- Dual-line rotary- or Touch-Tone® -dial DACT interfaces to public telephone network (*leased phone lines are not required*).
- 24-volt operation.
- Built-in voltmeter measures:
 - ✓ Zone voltage.
 - ✓ Primary AC line voltage.
 - ✓ Battery voltage.
 - ✓ Notification appliance circuit(s) voltage.
 - ✓ Resettable 24 volt power.



**City and
County of
DENVER**



SFP-1024

- 230 VAC, 50 Hz international version available.
- Surface Mount Technology (SMT).
- Fully programmable via built-in keypad (no costly external programmers necessary).
- Complies with NFPA 72 (Local, Central Station and Remote Station [*DACT only - not polarity reversal*] Fire Alarm Systems).
- Reporting formats include Ademco Contact ID and 14 others.
- Integral battery charger for up to 60 hours of standby power.
- Fuseless, power-limited technology meets UL Power-Limiting Requirements.
- Programmable alarm presignal timer, alarm verification timer, and optional trouble reminder.
- Single-person walk test with 256-event walk-test buffer.
- Fire drill function.
- Zone disable capability (software).
- 256-event history buffer with time-and-date stamp, stored in permanent memory.
- Accurate real-time clock/calendar.
- Electronics and operational controls fully enclosed in lockable cabinet capable of housing up to 12 AH batteries.
- Optional LED-10N Remote Annunciators operate off serial, two-wire EIA-485 interface.
- Optional printer interface for on- or off-line printing of:
 - ✓ Text alarm end trouble status with time and date.
 - ✓ History files. ✓ Program entries. ✓ Walk Test data.

Windows® is a registered trademark of Microsoft Corporation.

NOTIFIER® is a Honeywell company.

This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice. For more information, contact NOTIFIER. Phone: (203) 484-7181 FAX: (203) 484-7118



NOTIFIER®

12 Clintonville Road, Northford, Connecticut 06472

**ISO 9001
CERTIFIED**
ENGINEERING & MANUFACTURING
QUALITY SYSTEMS



Made in the U.S.A.

Remote Site Upload/Download

The SFP-1024 may be downloaded or uploaded, without compromising the system fire protection at the protected premises.

- Download system programming.
- Upload key system information:
 - ✓ Current system status, history + walk test files.
 - ✓ Zone, AC line, NAC1, 2, 3 and 4, Resettable Power, Battery Voltages.
 - ✓ System programming.
- Upload or download within one minute without affecting normal fire panel functions.
- Multiple security techniques.
- Requires **PK-1024** programming kit and Hayes-compatible 1200-baud modem.
- Windows® 3.1 and Windows® 95/98 compatible.

Specifications

Single PC board design using Surface Mount Technology (SMT). Two modular telephone jacks for connection to RJ31X/Modules.

AC Power

- 120 VAC, 50/60 Hz, 2.3 amps.
- 230 VAC, 50 Hz, 1.2 amps ("E" suffix).
- Wire size: 14 AWG (2.0 mm²) with 600-volt insulation.
- Built-in brownout circuitry.
- Built-in voltmeter.

Communicator

- One line-active indicator for each of two phone lines.
- "Kiss-Off" signal LED.
- Dual "low telephone voltage detect" circuitry.
- Programmable event codes per each format.
- Up to 100 transmitted events/messages.
- Selectable/deselectable transmissions of 100 events.

Communication Formats

Express and Ademco Contact ID formats allow complete transaction to be communicated in under five seconds.

- Ademco Contact ID.
- 20 PPS, 3+1 standard and expanded.
- 20 PPS, 4+1 standard and expanded.
- 20 PPS, 4+2 standard and expanded.
- 4+1 and 4+2 Ademco Express.

Initiating Device Circuits (zones)

The SFP-1024 includes ten programmable Class B Initiating Device Circuits (zones). Use the CAC-10F Class A Converter Module to convert *all* Class B IDCs/NACs to Class A.

Each zone may support two-wire smoke detectors. Programming options include:

- Normally Open Contact devices (pull, heat).
- Four-wire smoke detectors.
- Waterflow (silenceable/non-silenceable) operation.
- Supervisory (standard/auto-reset) operation.
- Remote switch for Reset, Drill, Silence and Acknowledge.
- Critical and Noncritical Process Monitoring (standard/auto-reset).

All circuits are power-limited and fully supervised. They allow up to 100 ohms of line resistance and allow for use of 12 AWG (3.1 mm²) to 18 AWG (0.78 mm²) wire.

Notification Appliance Circuits

- Two Style Y (Class B) @ 3.0 amps each. Use the CAC-10F Class A Converter Module to convert *all* Class B NACs and IDCs to Class A.
- Option module adds two Style Z (Class A) NACs @ 1.5 amps each.
- All circuits are fully power-limited and meet the UL Power-Limiting Requirements for fuseless technology.

Auxiliary Outputs

- Resettable four-wire smoke detector power @ 500 mA.
- Nonresettable power @ 500 mA.
- Two fully programmable (activate from Common Alarm, Trouble, Supervisory, Process Monitoring or Comm. Fail) Form-A relays.
- Option module adds two fully programmable (activate from Common Alarm, Trouble, Supervisory, Process Monitoring or Comm. Fail) Form-C relays.

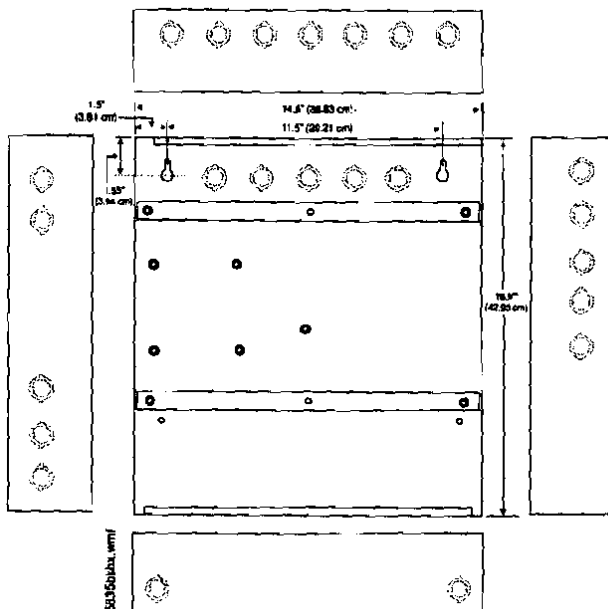
Compatible Devices, EIA-485 Port

- LED-10N** Ten-zone Remote Annunciator. Mounts to three-gang electrical box. *Requires LED-10IM.*
- AFM-16A** Annunciator Fixed Module, 16 Alarm LEDs, Common Trouble LED. Mounts to four-gang electrical box.
- LDM-32** Graphic Annunciator Interface Module.
- ACM-8R** Remote Form-C relay module. Provides eight mappable, Form-C relays driven by EIA-485. *Requires ABS-8R.*

NOTE: For more detailed information on *Compatible EIA-485 Devices* for use with the SFP-1024, please refer to the data sheets for the **LED-10N (DN-5846)**, **AFM-16A (DN-3440)**, **LDM Series (DN-551)**, or **ACM-8R (DN-3558)**.

Cabinet Specifications

The cabinet is gray with a dark blue overlay. Knockouts on the top, sides, and back provide ease of wire entry. The cabinet can be surface- or semi-flush mounted and is compact in design. **Door:** 17.11" H x 14.71" W (43.46 cm H x 37.374 cm W). **Backbox (below):** 16.90" H x 14.50" W x 4.50" D (42.93 cm H x 36.83 cm W x 11.748 cm D). **Trim Ring:** 20.020" H x 17.620" W (50.85 cm H x 44.75 cm W).



PRODUCT LINE INFORMATION

- SFP-1024** Ten-zone, 24 volt, Fire Alarm Control Communicator (includes backbox, 2X transformers, 6 Amps of NAC power, technical manual, and a frame & post operating instruction sheet).
- SFP-1024E** Same as SFP-1024 with 230 VAC, 50 Hz transformer.
- LED-10IM** LED-10N Remote Annunciator Interface Module.
- NAC-REM** Notification Appliance (Signal) Circuit, Relay Expander Module. Adds 2 NACs and 2 Form-C Relays.
- CAC-10F** Class A Converter Module. Converts Class B Initiating Device Circuits (zones) and standard Notification Appliance Circuits to Class A.
- PK-1024** Upload/download utility includes: programming software (Three 3.5" disks, IBM compatible, high density) and instruction manual.
- PRT-24** Printer Interface Module. Provides an EIA-232 printer output. Includes cable, DB9F and DB25 adapter.
- DP-1024** Internal Dress Panel (required for Canadian applications).
- ABS-8R** Metal enclosure for mounting ACM-8R module.
- MCBL-7** DACT phone cords, 7 ft./2.13 m long, (two required).
- BB-17** UL listed battery backbox. Required for batteries up to 18 A.H.
- PS Series** Batteries. SFP-1024 charging circuit is 7 - 17 AH. Refer to the PS Series (DN-1109) data sheet for ordering information.
- BAT Series** Batteries. SFP-1024 charging circuit is 7 - 17 AH. Refer to the BAT Series (DN-6933) data sheet for ordering information.

The chart below shows UL listed receivers compatible with the SFP-1024:

Format # (Addresses 16 & 42)	Osborne Radionics							
	Ademco 685 (1)	Silent Knight 9000	ITI CS-4000 (3)	FBI CP220FB	Hoffman Models 1 & 2	6000/ 6500 (5)	Sescoa 3000R (7)	Surguard MLR-2 (9)
0 4+1 Ademco Express	✓			✓				✓
1 4+2 Ademco Express	✓			✓	✓ (8)			✓
2 3+1/Standard/1800/2300	✓	✓ (2)	✓	✓ (4)	✓	✓ (5,6)	✓	✓
3 3+1/Expanded/1800/2300	✓	✓ (2)	✓	✓ (4)	✓		✓	✓
4 3+1/Standard/1900/1400	✓	✓ (2)		✓ (4)	✓		✓	✓
5 3+1/Expanded/1900/1400	✓	✓ (2)		✓ (4)	✓		✓	✓
6 4+1/Standard/1800/2300	✓	✓ (2)	✓	✓ (4)	✓	✓ (5)	✓	✓
7 4+1/Expanded/1800/2300	✓	✓ (2)		✓ (4)	✓		✓	✓
8 4+1/Standard/1900/1400	✓	✓ (2)		✓ (4)	✓		✓	✓
9 4+1/Expanded/1900/1400	✓	✓ (2)		✓ (4)	✓		✓	✓
A 4+2/Standard/1800/2300	✓	✓ (2)	✓	✓ (4)	✓	✓ (5)	✓	✓
B 4+2/Expanded/1800/2300	✓	✓ (2)		✓ (4)	✓		✓	✓
C 4+2/Standard/1900/1400	✓	✓ (2)		✓ (4)	✓		✓	✓
D 4+2/Expanded/1900/1400	✓	✓ (2)		✓ (4)	✓		✓	✓
E Ademco Contact ID	✓			✓	✓			✓

KEY:

- (1) With 685-8 Line Card with Rev 4.4d software.
- (2) With 9002 Line Card Rev 9035 software or 9032 Line Card with 9326A software.
- (3) Rev. 4.0 software.
- (4) FBI CP220FB Rec-11 Line Card with Rev 2.6 software and a memory card with Rev 3.8 software.
- (5) Model 6500 with Rev 600 software.
- (6) Model 6000 with Rev 204 software.
- (7) With Rev B control card at Rev 1.4 software and Rev C line card at Rev 1.5 software.
- (8) Model 2 only.
- (9) Version 1.62 software.



November 7, 2002

DN-6885 • 1-80

i³™ Series Photoelectric Smoke Detectors

for use with the SFP-2402 and SFP-2404

Section: Conventional Initiating Devices

GENERAL

System Sensor's i³™ Series photoelectric and photoelectric/thermal smoke detectors represent a significant advancement in conventional detection, incorporating three key features: installation ease, intelligence, and instant inspection.

Installation ease. The i³™ Series redefines installation ease with its plug-in design. This allows an installer to pre-wire the bases included with the heads. The large wire-entry port and in-line terminals provide ample room for neatly routing the wiring inside the base. The base accommodates a variety of backbox mounting methods, as well as direct mounting with drywall anchors. To complete the installation, i³™ Series heads plug into the base with a simple Stop-Drop 'N Lock™ action.

Intelligence. i³™ Series detectors offer a number of intelligent features to simplify testing and maintenance. Drift compensation and smoothing algorithms, to minimize nuisance alarms, are standard in the i³™ Series. When connected to the 2W-MOD loop test/maintenance module, or an SFP-2402/-2404 panel, two-wire i³™ detectors are capable of generating a remote maintenance signal when they need cleaning. This signal is indicated by LEDs located at the module and at the panel. To read the sensitivity of i³™ detectors, the SENS-RDR is a wireless device that displays sensitivity in terms of percent-per-foot obscuration.

Instant inspection. The i³™ Series provides wide-angle red and green LED indicators for instant inspection of detector condition. The LEDs indicate: normal standby, out-of-sensitivity, alarm, or freeze trouble conditions. The "EZ Walk" loop test feature is available on two-wire i³™ Series detectors when connected to the 2W-MOD loop test/maintenance module or an SFP-2402/-2404 panel. The "EZ Walk" feature verifies the initiating loop wiring by providing LED status indication at each detector.

FEATURES

- Plug-in detector line — mounting base included.
- Large wire-entry port.
- In-line terminals with SEMS screws.
- Mounts to octagonal and single-gang backboxes, 4" (101.6 mm) square backboxes, or directly to ceiling.
- Stop-Drop 'N Lock™ attachment to base.
- Removable detector cover and chamber for easy cleaning.
- Built-in remote maintenance signaling.
- Drift compensation and smoothing algorithms.
- Simplified sensitivity measurement.
- Wide-angle, dual-color LED indication.
- Loop testing via "EZ Walk" feature.
- Built-in test switch.

SPECIFICATIONS

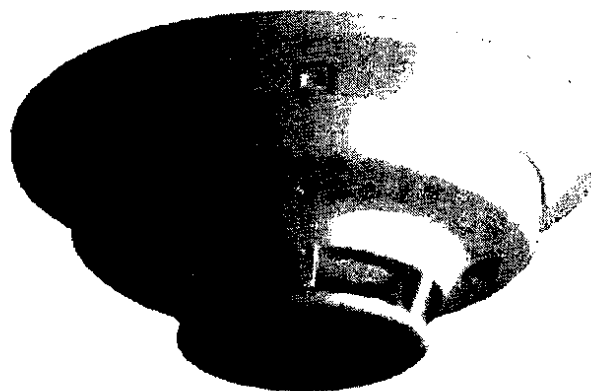
Physical Specifications

Operating temperature range: for models 2W-B and 4W-B: 32°F to 120°F (0°C to 49°C); for thermal models 2WT-B and 4WT-B: 32°F to 100°F (0°C to 37.8°C).

Storage temperature range: -4°F to +158°F (-20°C to +70°C).

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State Fire
Marshal
7272-1209:210MARYLAND
State Fire Marshal
Permit # 2093

Approved



88859101.jpg



Operating humidity range: 10% – 95% RH, non-condensing.

Thermal sensor: 135°F (57.2°C) fixed (models 2WT-B, 4WT-B).

Freeze trouble: 41°F (5°C) (models 2WT-B and 4WT-B).

Sensitivity: 2.5%/foot (0.762%/meter) nominal.

Input terminals: utilize 14 to 22 AWG wire.

Dimensions (including base): 5.3" (134.62 mm) diameter, 2.0" inches (50.8 mm) high.

Weight: 6.3 oz. (178.8 grams).

Mounting options: 3.5" (88.9 mm) octagonal backbox; 4" (101.6 mm) octagonal backbox; single-gang backbox; 4" (101.6 mm) square backbox with a plaster ring; or direct mount to ceiling.

Electrical Specifications

Operating voltage: 12/24 V non-polarized nominal; 8.5 V minimum; 35 V maximum.

Maximum ripple voltage: 30% of nominal (peak to peak).

Standby current: 50 µA maximum average. **Peak standby current:** for two-wire models: 100 µA; not applicable for four-wire models.

Maximum start-up capacitance: for two-wire models: 0.1 µF; not applicable for four-wire models.

Latching alarm: reset by momentary power interruption.

i³™ and Stop-Drop 'N Lock™ are trademarks of System Sensor®, an operation of Honeywell.

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This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice. For more information, contact NOTIFIER. Phone: (203) 484-7161 FAX: (203) 484-7116



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Maximum initial start-up time: for two-wire models: 45 seconds; for four-wire models: 15 seconds.

Maximum alarm current: for two-wire models: 130 mA limited by control panel; for four-wire models: 20 mA @ 12 V, 23 mA @ 24 V.

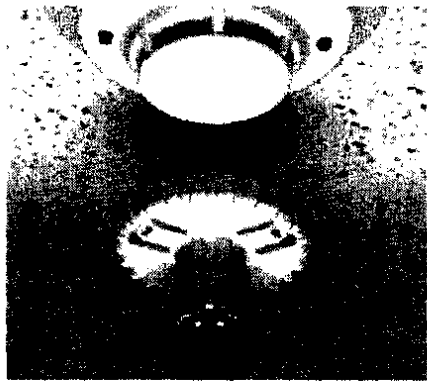
Alarm contact ratings: for four-wire models: 0.5 A @ 30 VAC/VDC; not applicable for two-wire models.

Alarm reset voltage: 2.5 V.

Alarm reset time: 0.3 seconds.

ARCHITECTURAL/ENGINEERING SPECIFICATIONS

Smoke detector shall be a System Sensor i²™ Series model number _____, Listed to Underwriters Laboratories UL 268 Fire Protection Signaling Systems. The detector shall be a photoelectric type (models 2W-B, 4W-B) or a combination photoelectric/thermal (models 2WT-B, 4WT-B) with thermal sensor rated at 135°F (57.2°C). The detector shall include a mounting base for mounting to 3.5" (88.9 mm) and 4" (101.6 mm) octagonal, single-gang, and 4" (101.6 mm) square backboxes with a plaster ring, or directly mount to the ceiling using drywall anchors. Wiring connections shall be made by means of SEMS screws. The detector shall allow pre-wiring of the base and the head shall be a plug-in type. The detector shall have a nominal sensitivity of 2.5%/foot (0.762%/meter) as measured in the UL smoke box. The detector shall be capable of automatically adjusting its sensitivity by means of drift compensation and smoothing algorithms. The detector shall provide dual-color LED indication which blinks to indicate power-up, normal standby, out-of-sensitivity, alarm, and freeze trouble (models 2WT-B, 4WT-B) conditions. When used in conjunction with the 2W-MOD module, two-wire models shall include a maintenance signal to indicate the need for maintenance at the alarm control panel, and shall provide a loop testing capability to verify the circuit without testing each detector individually.



6885pho4.jpg

LED MODES

6885LED1.tbl

LED Modes	Green LED	Red LED
Power Up	Blink every 10 seconds.	Blink every 10 seconds.
Normal (standby)	Blink every 5 seconds.	OFF
Out of Sensitivity	OFF	Blink every 5 seconds.
Freeze Trouble	OFF	Blink every 10 seconds.
Alarm	OFF	Solid ON.

Power-up Sequence for LED Indication

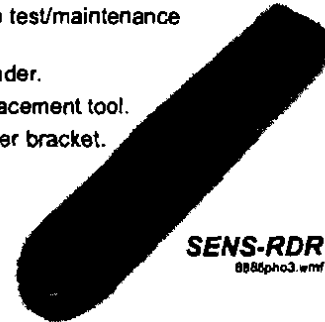
Condition	Duration
Initial LED status indication	80 seconds.
*** (if excessive electrical noise is present)	4 minutes.

PRODUCT LINE INFORMATION

- 2W-B** Two-wire photoelectric smoke detector.
- 2WT-B** Two-wire photoelectric smoke detector with 135°F (57.2°C) fixed thermal sensor.
- 4W-B** Four-wire photoelectric smoke detector.
- 4WT-B** Four-wire photoelectric smoke detector with 135°F (57.2°C) fixed thermal sensor.

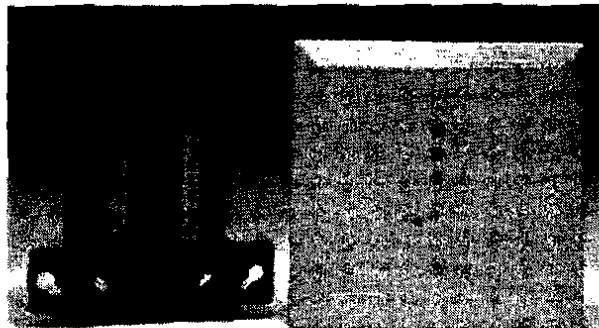
Accessories:

- 2W-MOD** Two-wire loop test/maintenance module.
- SENS-RDR** Sensitivity reader.
- RT** Removal/replacement tool.
- A77-AB2** Retrofit adapter bracket.



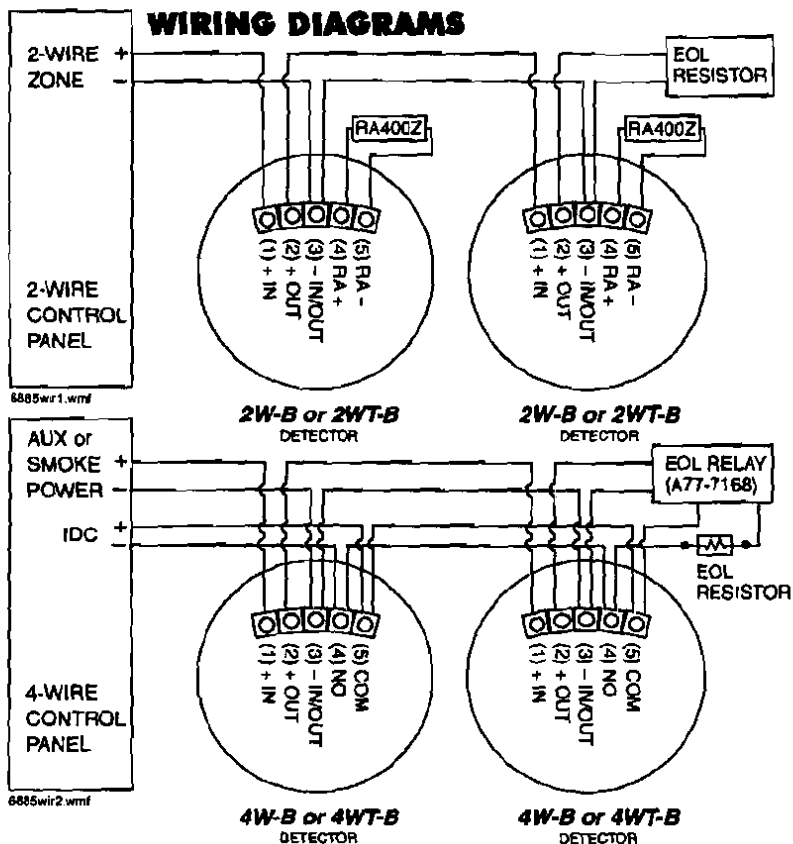
SENS-RDR
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2W-MOD



6885pho2.wmf

WIRING DIAGRAMS



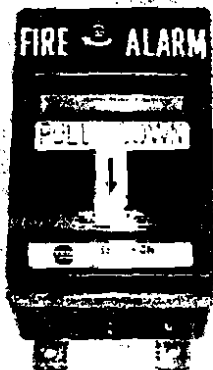
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6885wr2.wmf



Fire Alarm Systems

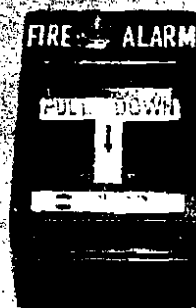
MANUAL PULL STATION



-RMS-6T-EXP



-RMS-IT



-RMS-IT-KL

GENERAL DESCRIPTION

The MRM-RMS series manual pull station is a high quality non-toxic die cast station manufactured entirely in the USA. Their low profile and smooth edges off an attractive yet highly reliable design.

All components are pre-painted or have plated surfaces to inhibit corrosion or scratching. electrically, the MRM-RMS manual stations are equipped with a 10 Amp snap action switch offered in many contact arrangements including gold contacts.

The MRM-RMS stations can be used with or without a break glass rod with replacement requiring no special tool. The break glass rod helps deter nuisance false alarms.

FEATURES

- UL/FM/CSFM/MEA Listed
- Manufactured entirely in USA
- Low Profile Design
- Terminal or Pigtail Connection
- 10 Amp SPST, SPDT or DPDT Contacts
- Gold Contacts Available
- Single or Double Action
- Operates with or without a Break Glass Rod
- Allen Wrench or Key Lock/Reset
- Institutional Type Station Available, Needs a Key to Activate and Reset an Alarm
- Durable Non-Toxic Die Cast Aluminum
- Plated Metal Surfaces to Inhibit Corrosion
- Pre-Finished Components, Red is Standard
- Special Colors and/or Finishes Available
- Surface or Semi-Flush Mounting
- LED Option (Red, Green, Yellow)
- Special Silk Screening Available on the Dual Action Cover, "Lift & Pull for Halon Release", "Tornado", "Emergency", etc.



March 30, 2004

DN-8601 • J-134

Wheelock NS Series horn Strobes and NH Series Horns

Section: Audio/Visual Devices

GENERAL

The Wheelock Series NS Horn Strobe Appliances will satisfy virtually all requirements for indoor, wall mount applications.

The Series NH Horn and the horn portion of the Series NS include a selectable continuous horn tone or temporal pattern (Code 3) with selectable dBA settings of 90 or 95 dBA.

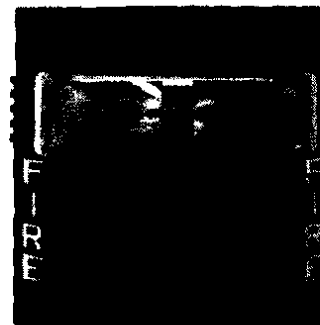
Strobe options include 1575cd or Wheelock's patented Multi-Candela strobe with field selectable candela settings of 15/30/75/110cd.

These versatile Horn Strobe Appliances may be synchronized when used in conjunction with the Wheelock SM or DSM Sync Modules or a Power Supply with the Wheelock patented Sync Protocol. Additionally, the audible may be silenced while maintaining strobe activation.

All models of the Series NS and NH are designed for maximum performance, reliability and cost-effectiveness while meeting or exceeding the latest requirements of NFPA 72/ANSI 117.1/UFC and UL Standards 1971 and 464 as well as meeting ADA requirements concerning photosensitive epilepsy.

FEATURES

- Field Selectable Candela Settings 15/30/75/110cd (24 VDC Multi-Candela models) or 1575cd in 12 or 24 VDC
- Selectable Continuous Horn or Temporal (Code 3)
- 2 Selectable dBA settings of 90 and 95 dBA in both tones
- 12 and 24 VDC models with UL "Regulated Voltage" using filtered DC or unfiltered VRMS input voltage
- Patented Universal Mounting Plate
- Wall Mount
- ADA/NFPA/UFC/ANSI compliant
- Complies with OSHA 29, Part 1910.165
- NH horn is selectable 12 or 24 VDC in 1 unit
- Synchronize with Wheelock SM or DSM Sync Module or the Power Supply with built-in sync protocol
- Patent pending Universal Mounting Plate for single-gang, double-gang, 4" (10.16 cm) square, or 100 mm European backboxes, or Wheelock's SHBB shallow surface backbox.
- Fast installation with IN/OUT screw terminals using #12 to #18 AWG wires



NS Horn Strobe

NH Horn



Multi-Candela Indicator
(bottom of Strobe Lens)

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QUALITY SYSTEMS

GENERAL NOTES

- Strobes are designed to flash at 1 flash per second minimum over their "Regulated Voltage Range". Note that NFPA-72 specifies a flash rate of 1 to 2 flashes per second and ADA Guidelines specify a flash rate of 1 to 3 flashes per second.
- All candela ratings represent minimum effective Strobe intensity based on UL Standard 1971.
- Series NS Strobe products are listed under UL Standard 1971 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 NH horns are listed under UL Standard 464 for audible signal appliances (Indoor use only).
- "Regulated Voltage Range" is the newest terminology used by UL to identify the voltage range. Prior to this change UL used the terminology "Listed Voltage Range".

Table 1: Ratings Per UL Standard 1971

Model	Input Voltage VDC	Regulated Voltage Range VDC/FWR	Strobe Candela (CD)
NS-24MCW	24	16.0 - 33.0	15/30/75/110
NS-241575W	24	16.0 - 33.0	15 (75 on Axis)
NS-121575W	12	8.0 - 17.5	15 (75 on Axis)

Table 2: *Average RMS Current Ratings

NS-24MCW with High (95 dBA) Setting				
Voltage	15cd	30cd	75cd	110cd
16.0 VDC	.077	.113	.195	.268
24.0 VDC	.085	.087	.134	.174
33.0 VDC	.069	.082	.117	.134
NS-24MCW with Low (90 dBA) Setting				
Voltage	15cd	30cd	75cd	110cd
16.0 VDC	.070	.106	.186	.261
24.0 VDC	.052	.072	.126	.158
33.0 VDC	.045	.060	.097	.114

Table 3: *Average RMS Current Ratings

NS-241575W		
Voltage	High (95) dBA	Low (90) dBA
16.0 VDC	.120	.116
24.0 VDC	.094	.093
33.0 VDC	.102	.078
NS-121575W		
Voltage	High (95) dBA	Low (90) dBA
8.0 VDC	.341	.324
12.0 VDC	.251	.265
17.5 VDC	.216	.188

NOTE: All CAUTIONS and WARNINGS are identified by the symbol . All warnings are printed in bold capital letters.

WARNING! PLEASE READ THESE SPECIFICATIONS AND ASSOCIATED INSTALLATION INSTRUCTIONS CAREFULLY BEFORE USING, SPECIFYING OR APPLYING THIS PRODUCT. FAILURE TO COMPLY WITH ANY OF THESE INSTRUCTIONS, CAUTIONS OR WARNINGS COULD RESULT IN IMPROPER APPLICATION, INSTALLATION AND/OR OPERATION OF THESE PRODUCTS IN AN EMERGENCY SITUATION, WHICH COULD RESULT IN PROPERTY DAMAGE, AND SERIOUS INJURY OR DEATH TO YOU AND/OR OTHERS.

Table 4: *Average Mean Current Ratings NH Horn 24 Volt Models

Voltage	High (95) dBA	Low (90) dBA
16.0 VDC	.019	.017
24.0 VDC	.029	.022
33.0 VDC	.039	.027

*Average RMS Current is per UL average RMS method and Average Mean Current is per UL average mean method. NH models use average mean current. For rated In Rush and Peak current across the UL listed voltage range for both filtered DC and unfiltered VRMS (FWR), see installation instructions.

Table 5: dBA Ratings for Series NS/NH Horn

Description	Volume	Reverberant dBA @ 10 ft. per UL 464		Anechoic dBA @ 10 ft.	
		12 VDC	24 VDC	12 VDC	24 VDC
Continuous Horn	High	83	87	89	95
	Low	76	81	84	90
Code 3 Horn	High	79	82	89	95
	Low	72	76	84	90

SYNC MODELS/POWER SUPPLY

MODEL NUMBER	INPUT VOLTAGE (VDC)	AVERAGE MEAN CURRENT @ 24 VDC	MOUNTING OPTIONS
SM-12/24-R	24	.028	W
DSM-12/24-R	24	.035	W

NOTES:

SM Sync Module is rated for 3.0 amperes @ 24 VDC;
DSM Sync Module is rated for 3.0 amperes per circuit. The maximum number of interconnected DSM Modules is twenty (20).



wheelock INC.

Helping People Take ActionSM

SERIES RSS & RSSP SINGLE & MULTI-CANDELA STROBES & STROBE PLATES

DESCRIPTION

Wheelock's patented Series RSS Strobe Appliances and Series RSSP Strobe Plates have lower current draw while maintaining outstanding performance, reliability and cost effectiveness. These versatile appliances will satisfy virtually all requirements for indoor, wall or ceiling mount applications.

Strobe options for wall mount models include 1575 or Wheelock's Patented MCW multi-candela strobe with field selectable candela settings of 15/30/75/110cd or the high intensity MCWH strobe with field selectable 135/185cd. Ceiling mount models include the patented MCC multi-candela ceiling strobe with field selectable intensities of 15/30/75/95cd or the high intensity MCCH strobe with field selectable 115/177cd.

All models may be synchronized using the Wheelock SM, DSM Sync Modules or the PS-12/24-8CP and PS-12/24-8MP Power Supplies with Wheelock's Patented Sync Protocol. Synchronized strobes can eliminate possible restrictions on the number of strobes in the field of view. Wheelock's synchronized strobes offer an easy way to comply with ADA recommendations concerning photosensitive epilepsy as well as meeting the requirements of NFPA 72.

Wheelock's Series RSS Strobes employ a Patented Integral Strobe Mounting Plate that can be mounted to a single gang, double gang, 4" square, 100mm European backboxes or the SHBB surface backbox. If the flush backbox has side or top space between it and the finished wall, the NATP (Notification Appliance Trimplate) may be used. It provides an additional .65" of trim for the Appliance. An attractive cover plate is provided for a clean, finished appearance on all models.

The Series RSSP Multi-Candela Strobe Plates are a cost effective way to retrofit required wall strobe appliances to bells, horns, chimes, multitones or speakers and easily mounts to standard 4" backboxes or for surface mount use with Wheelock's SBL2 surface backbox.

For Weatherproof Series RSS See Datasheet S9004

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Series RSS

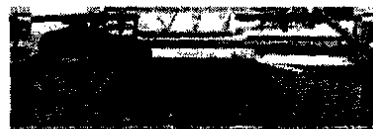


Series RSSP



RSS Round

New Look



Multi-Candela Indicator
(bottom of Strobe Lens)

Features


- Approvals include: UL Standard 1971, New York City (MEA), California State Fire Marshal (CSFM), Factory Mutual (FM), and Chicago (BFP) See approvals by model in Specifications and Ordering Information
- ADA/NFPA/UFC/ANSI compliant. Meets OSHA 29 Part 1910.165
- Wall mount Multi-Candela models are available with Field Selectable Candela Settings of 15/30/75/110cd or 135/185cd. Single Candela models are available in 1575cd
- Ceiling mount Multi-Candela models are available with field selectable candela settings of 15/30/75/95cd or 115/177cd. (Round or Square)
- Strobes produce 1 flash per second over the regulated voltage range
- 12 and 24 VDC models with wide UL "Regulated Voltage" using filtered (DC) or unfiltered VRMS input voltage
- Synchronize using Wheelock's sync modules or power supplies with built-in sync protocol
- Fast installation with IN/OUT screw terminals using #12 to #18 AWG wire

NOTE: All CAUTIONS and WARNINGS are identified by the symbol . All warnings are printed in bold capital letters.

WARNING: PLEASE READ THESE SPECIFICATIONS AND ASSOCIATED INSTALLATION INSTRUCTIONS CAREFULLY BEFORE USING, SPECIFYING OR APPLYING THIS PRODUCT. FAILURE TO COMPLY WITH ANY OF THESE INSTRUCTIONS, CAUTIONS OR WARNINGS COULD RESULT IN IMPROPER APPLICATION, INSTALLATION AND/OR OPERATION OF THESE PRODUCTS IN AN EMERGENCY SITUATION, WHICH COULD RESULT IN PROPERTY DAMAGE, AND SERIOUS INJURY OR DEATH TO YOU AND/OR OTHERS.

General Notes

- Strobes are designed to flash at 1 flash per second minimum over the Regulated Voltage Range. Note that NFPA-72 specifies a flash rate of 1 to 2 flashes per second and ADA Guidelines specify a flash rate of 1 to 3 flashes per second.
- All candela ratings represent minimum effective Strobe intensity based on UL Standard 1971.
- Series RSS & RSSP Strobe products are listed under UL Standard 1971 for indoor use with a temperature range of 32° F to 120° F (0° C to 49° C) and maximum humidity of 93% (± 2%).
- "Regulated Voltage Range" is the newest terminology used by UL to identify the voltage range. Prior to this change, UL used the terminology "Listed Voltage Range".

RSS/RSSP 24VDC Models	RSS/RSSP - Wall Mount 							RSS - Ceiling Mount					
	241575W	24MCW				24MCWH		24MCC			24MCCH		
	1575cd	15cd	30cd	75cd	110cd	135cd	185cd	15cd	30cd	75cd	95cd	115cd	177cd
24 vdc	0.060	0.041	0.063	0.109	0.140	0.195	0.270	0.045	0.070	0.119	0.159	0.195	0.270
UL max*	0.090	0.060	0.092	0.165	0.220	0.300	0.420	0.065	0.105	0.189	0.249	0.300	0.420
RSS/RSSP 24VDC Models	RSS/RSSP Wall Mount	* RMS current ratings are per UL average RMS method. UL max current rating is the maximum RMS current within the listed voltage range (16-33v for 24v units). For strobes the UL max current is usually at the minimum listed voltage (16v for 24v units). For audibles the max current is usually at the maximum listed voltage (33v for 24v units). For unfiltered FWR ratings, see installation instructions.											
	121575W												
	12 vdc												
UL max*	0.255												

Product	Series
Multitone Appliances	AMT, MT
Horns	AH, NH, HS
Motor Bells	MB-G6/G10
Speakers	ET-1010/1080, E70, ET70
Chimes	CH70

WARNING: CONTACT WHEELOCK FOR THE CURRENT "INSTALLATION INSTRUCTIONS" AND "GENERAL INFORMATION" SHEET (PB2380) ON THESE PRODUCTS. THESE DOCUMENTS UNDERGO PERIODIC CHANGES. IT IS IMPORTANT THAT YOU HAVE CURRENT INFORMATION ON THESE PRODUCTS. THESE MATERIALS CONTAIN IMPORTANT INFORMATION THAT SHOULD BE READ PRIOR TO SPECIFYING OR INSTALLING THESE PRODUCTS, INCLUDING:

- TOTAL CURRENT REQUIRED BY ALL APPLIANCES CONNECTED TO SYSTEM SECONDARY POWER SOURCES.
- FUSE RATINGS ON NOTIFICATION APPLIANCE CIRCUITS TO HANDLE PEAK CURRENTS FROM ALL APPLIANCES ON THOSE CIRCUITS.
- ADDING, REPLACING OR CHANGING APPLIANCES OR CHANGING CANDELA SETTINGS WILL AFFECT CURRENT DRAW. RECALCULATE CURRENT DRAW TO INSURE THAT THE TOTAL AVERAGE CURRENT AND TOTAL PEAK REQUIRED BY ALL APPLIANCES DO NOT EXCEED THE RATED CAPACITY OF THE POWER SOURCE OR FUSES.
- COMPOSITE FLASH RATE FROM MULTIPLE STROBES WITHIN A PERSON'S FIELD OF VIEW.
- THE VOLTAGE APPLIED TO THESE PRODUCTS MUST BE WITHIN THEIR "REGULATED VOLTAGE RANGE".
- INSTALLATION OF 110 CANDELA STROBE PRODUCTS IN SLEEPING AREAS.
- INSTALLATION IN OFFICE AREAS AND OTHER SPECIFICATION AND INSTALLATION ISSUES.
- USE STROBES ONLY ON CIRCUITS WITH CONTINUOUSLY APPLIED OPERATING VOLTAGE. DO NOT USE STROBES ON CODED OR INTERRUPTED CIRCUITS IN WHICH THE APPLIED VOLTAGE IS CYCLED ON AND OFF AS THE STROBES MAY NOT FLASH.
- FAILURE TO COMPLY WITH THE INSTALLATION INSTRUCTIONS OR GENERAL INFORMATION SHEETS COULD RESULT IN IMPROPER INSTALLATION, APPLICATION, AND/OR OPERATION OF THESE PRODUCTS IN AN EMERGENCY SITUATION, WHICH COULD RESULT IN PROPERTY DAMAGE AND SERIOUS INJURY OR DEATH TO YOU AND/OR OTHERS.
- CONDUCTOR SIZE (AWG), LENGTH AND AMPACITY SHOULD BE TAKEN INTO CONSIDERATION PRIOR TO DESIGN AND INSTALLATION OF THESE PRODUCTS, PARTICULARLY IN RETROFIT INSTALLATIONS.



wheelock INC.

Helping People Take ActionSM

SERIES MIZ-24S MINI HORN TEMPORAL (CODE 3) OR CONTINUOUS TONE

Description:

Wheelock Series MIZ piezoelectric Mini Horns are compact electronic alarm appliances that are listed under UL Standard 464 for Audible Appliances in Public Mode Fire Protection Systems. The Series MIZ-24S models provide a field selectable Continuous or Code 3 horn tone when connected directly to a fire alarm control panel. They can also provide a synchronized code 3 horn tone using the Wheelock SM, DSM Sync Modules or PS-12/24-8CP and PS-12/24-8MP Power Supplies. The series MIZ appliances are attractive, offer high sound output along with low current draw and are ideal for alarm signaling in individual rooms, apartments, hotels, motels and offices. Color choices of red or off-white will blend with any décor.



SERIES MIZ



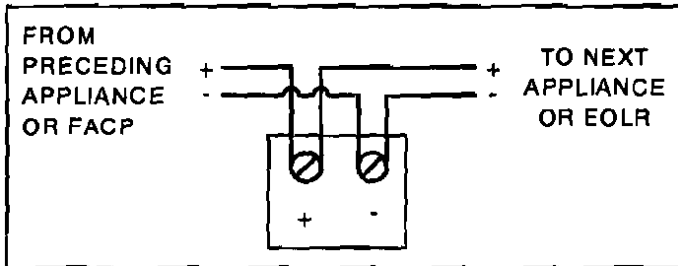
Applications:

- Individual Rooms
- Apartments
- Hotels
- Motels
- Offices

Features:

- Approvals include: UL Standard 464, California State Fire Marshal (CSFM), New York City (MEA), Factory Mutual (FM), and Chicago (BFP)
- Field selectable settings for Temporal (Code 3) or Continuous Horn
- Synchronized code 3 horn when used with Wheelock's Sync Module
- Designed to meet or exceed NFPA/ANSI standards
- Convenient mounting to any standard single-gang box
- Beauty plugs to cover mounting screws
- No additional trimplate required for flush mounting
- Fast installation with In/Out screw terminals using #12 to #18 AWG
- High sound output with low current draw
- Available in red or off-white color

Wiring Diagrams (for all models)



Specifications and Ordering Information

Model	Order Code	Description	Mounting Options**	Agency Approvals				
				UL	MEA	CSFM	FM	BFP
MIZ-24S-R	8485	24 Volt, Red	B	X	X	X	X	*
MIZ-24S-W	8484	24 Volt, White	B	X	X	X	X	*

*PENDING

**Refer to Data Sheet S7000 for Mounting Options.

General Notes:

- Mini Horn models are Listed for indoor use with a temperature range of 32° F to 120° F (0° C to 49° C) and maximum humidity of 93% RH ±2%.
- Rated Input voltage (either filtered DC or unfiltered full-wave-rectified FWR): 16-33 VDC (for 24 VDC MIZ-24S models)


Architects and Engineers Specifications

The notification appliance shall be a Wheelock MIZ-24S audible appliance or approved equal. The Notification Appliance shall be electronic and shall have field selectable settings for Temporal (Code 3) or continuous horn and support coded systems operation. The anechoic sound pressure measurement on Temporal (Code 3) setting shall be 87 dBA minimum at 24VDC. The anechoic sound pressure measurement on Continuous Horn setting shall be 87 dBA minimum at 24 VDC. Operating voltages shall be 24 VDC using filtered power or unfiltered power supply (full-wave-rectified). All models shall have provision for standard reverse polarity type supervision and IN/OUT wiring using terminals that accept #12 to #18 AWG wiring. The appliances shall be mounted indoors and mount on standard single-gang electrical backboxes requiring no additional trimplates or adapters.

Table 1: UL Listed Models and Ranges

Model	Regulated UL Voltage	Average RMS Current* (AMPS)	Reverberant dBA Per UL 464 @ 10 ft		Anechoic dBA @ 10 ft		Mounting Options
			Continuous	Code 3	Continuous	Code 3	
			dBA	dBA	dBA	dBA	
MIZ-24S	24 VDC	0.025	83.2	78.8	87.9	87.9	B
	UL max*	0.026	85.8	81.3	90.6	89.7	B

* RMS current ratings are per UL average RMS method. UL max current rating is the maximum RMS current within the listed voltage range (16-33v for 24v units). For strobes the UL max current is usually at the minimum listed voltage (16v for 24v units). For audibles the max current is usually at the maximum listed voltage (33v for 24v units). For unfiltered FWR ratings, see installation instructions.

NOTE: All CAUTIONS and WARNINGS are identified by the symbol . All warnings are printed in bold capital letters.

WARNING: PLEASE READ THESE SPECIFICATIONS AND ASSOCIATED INSTALLATION INSTRUCTIONS CAREFULLY BEFORE USING, SPECIFYING OR APPLYING THIS PRODUCT. FAILURE TO COMPLY WITH ANY OF THESE INSTRUCTIONS, CAUTIONS OR WARNINGS COULD RESULT IN IMPROPER APPLICATION, INSTALLATION AND/OR OPERATION OF THESE PRODUCTS IN AN EMERGENCY SITUATION, WHICH COULD RESULT IN PROPERTY DAMAGE, AND SERIOUS INJURY OR DEATH TO YOU AND/OR OTHERS.

WARNING: CONTACT WHEELOCK FOR THE CURRENT "INSTALLATION INSTRUCTIONS" (P84408) AND "GENERAL INFORMATION" SHEET (P82380) ON THESE PRODUCTS. THESE DOCUMENTS UNDERGO PERIODIC CHANGES. IT IS IMPORTANT THAT YOU HAVE CURRENT INFORMATION ON THESE PRODUCTS. THESE MATERIALS CONTAIN IMPORTANT INFORMATION THAT SHOULD BE READ PRIOR TO SPECIFYING OR INSTALLING THESE PRODUCTS, INCLUDING:

- TOTAL CURRENT REQUIRED BY ALL APPLIANCES CONNECTED TO SYSTEM SECONDARY POWER SOURCES.
- FUSE RATINGS ON NOTIFICATION APPLIANCE CIRCUITS TO HANDLE PEAK CURRENTS FROM ALL APPLIANCES ON THOSE CIRCUITS.
- THE VOLTAGE APPLIED TO THESE PRODUCTS MUST BE WITHIN THEIR RATED VOLTAGE RANGE.
- FAILURE TO COMPLY WITH THE INSTALLATION INSTRUCTIONS OR GENERAL INFORMATION SHEETS COULD RESULT IN IMPROPER INSTALLATION, APPLICATION, AND/OR OPERATION OF THESE PRODUCTS IN AN EMERGENCY SITUATION, WHICH COULD RESULT IN PROPERTY DAMAGE AND SERIOUS INJURY OR DEATH TO YOU AND/OR OTHERS.
- CONDUCTOR SIZE (AWG), LENGTH AND AMPACITY SHOULD BE TAKEN INTO CONSIDERATION PRIOR TO DESIGN AND INSTALLATION OF THESE PRODUCTS, PARTICULARLY IN RETROFIT INSTALLATIONS.

Wheelock products must be used within their published specifications and must be PROPERLY specified, applied, installed, operated, maintained and operationally tested in accordance with their installation instructions at the time of installation and at least twice a year or more often and in accordance with local, state and federal codes, regulations and laws. Specification, application, installation, operation, maintenance and testing must be performed by qualified personnel for proper operation in accordance with all of the latest National Fire Protection Association (NFPA), Underwriters' Laboratories (UL), National Electrical Code (NEC), Occupational Safety and Health Administration (OSHA), local, state, county, province, district, federal and other applicable building and fire standards, guidelines, regulations, laws and codes including, but not limited to, all appendices and amendments and the requirements of the local authority having jurisdiction (AHJ).

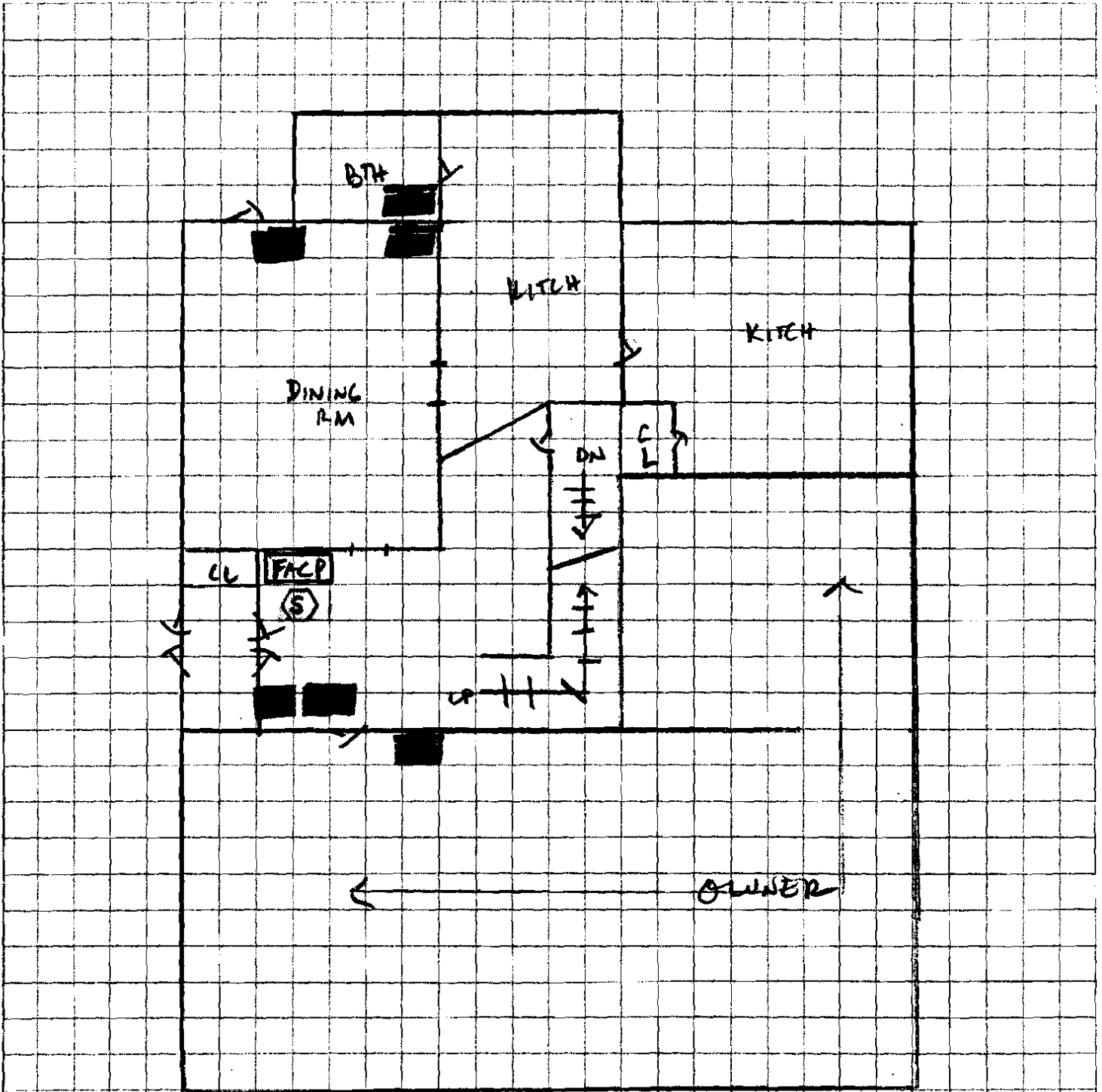
NOTE: Due to continuous development of our products, specifications and offerings are subject to change without notice in accordance with Wheelock Inc. standard terms and conditions.

**WE SUPPORT AND ENCOURAGE NICET CERTIFICATION
3 YEAR WARRANTY**

NATIONAL SALES OFFICE
800-631-2148
Canada 800-397-5777
E-Mail: info@wheelockinc.com
<http://www.wheelockinc.com>

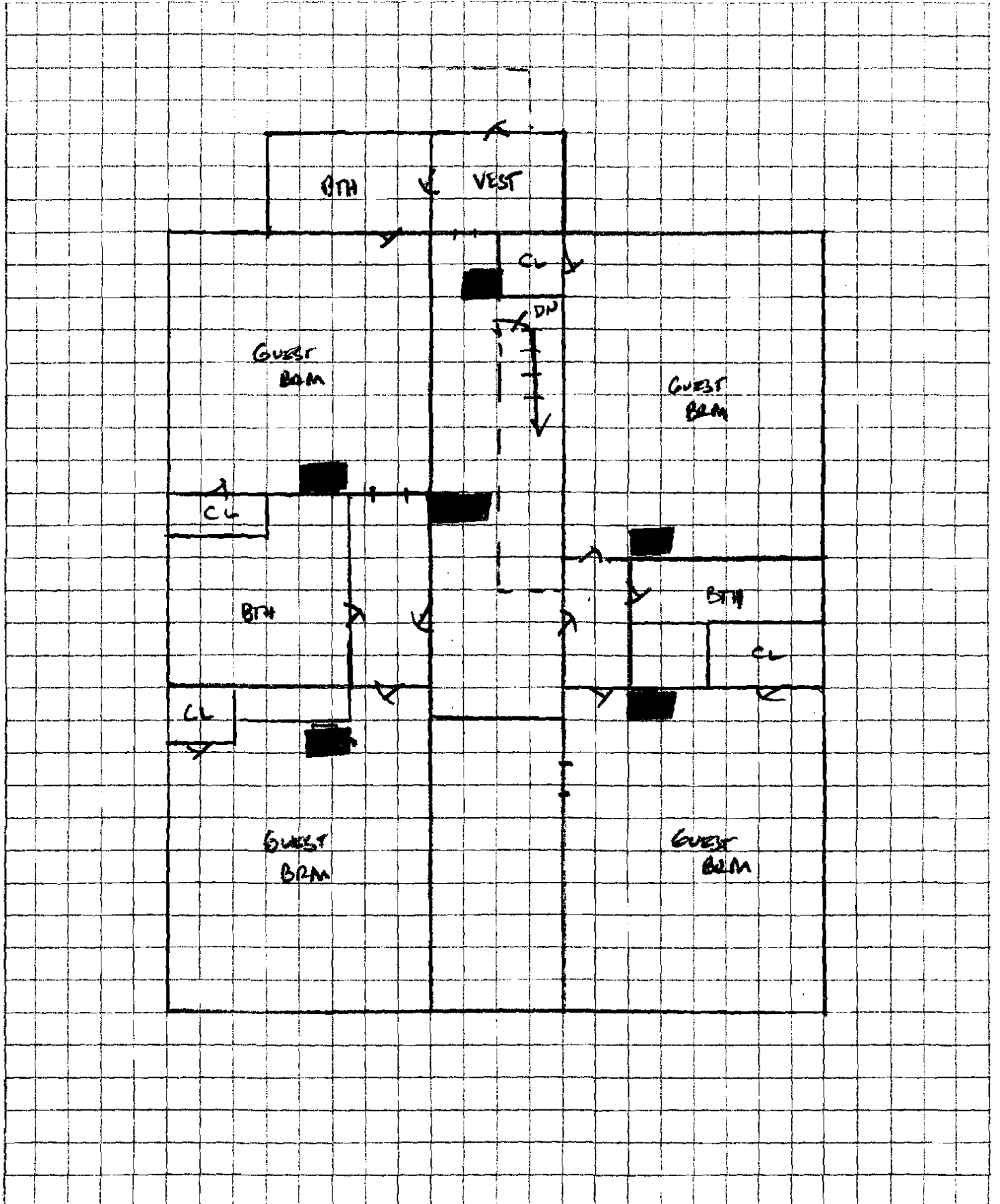


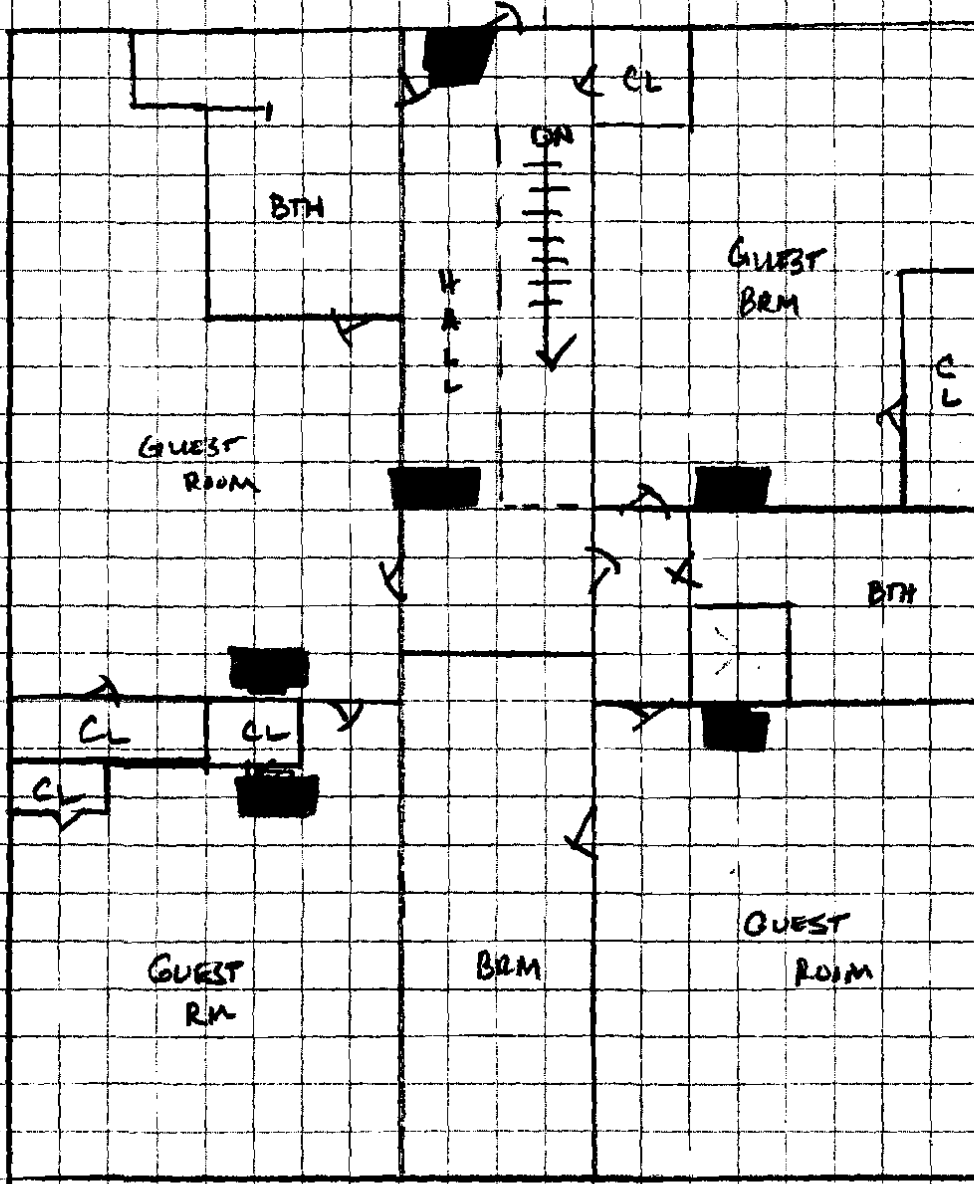
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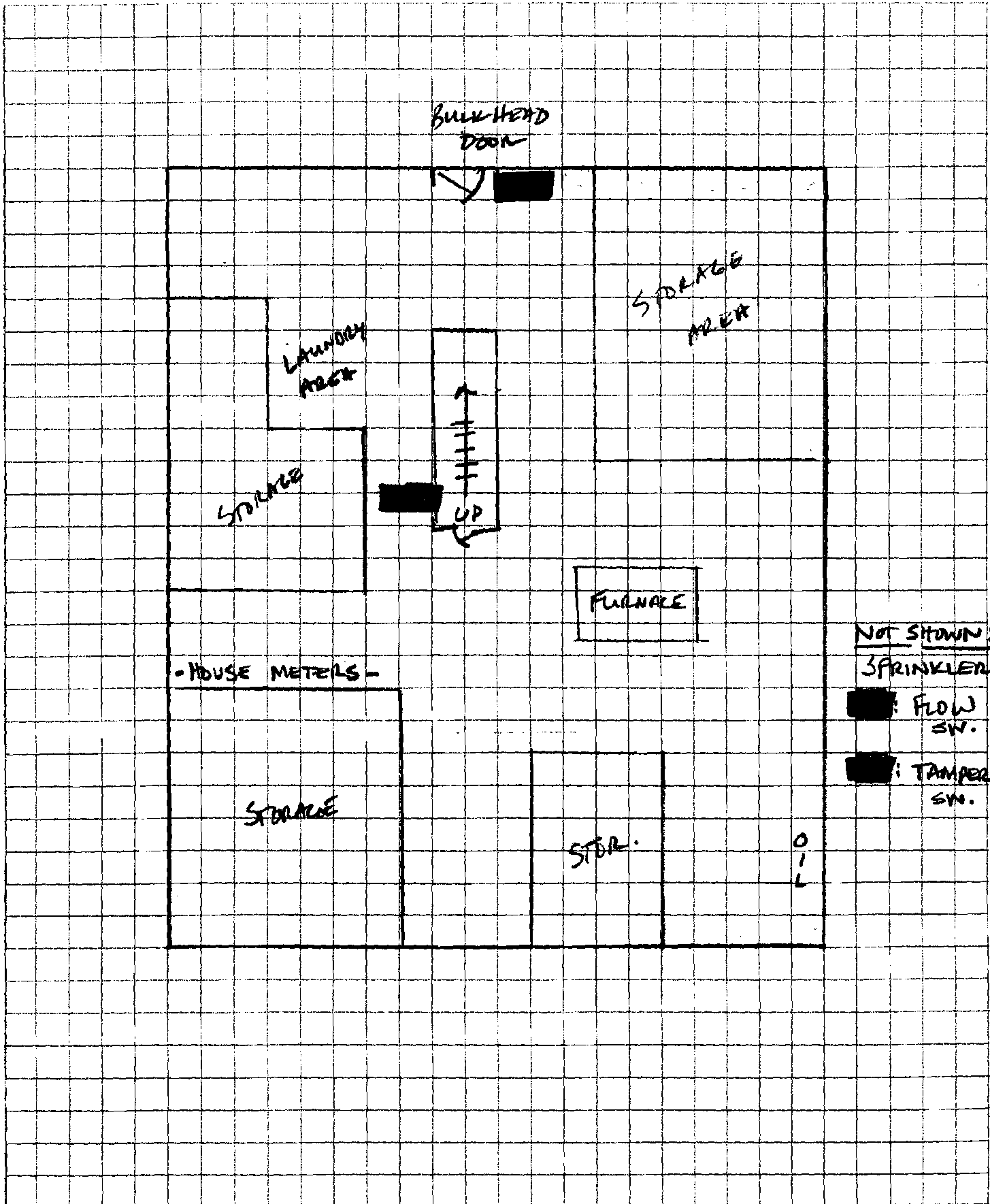


LEGEND

- FACP : FIRE ALARM CONTROL PANEL
- S : SMOKE DETECTOR
- : MANUAL PULL STATION
- : SPRINKLER FLOW SW (FBO)
- : SPRINKLER TAMPER SW (FBO)
- : HORN/STROBE SIGNAL
- : STROBE ONLY SIGNAL
- : HORN ONLY SIGNAL







BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 to schedule your inspections as agreed upon

Permits expire in 6 months, if the project is not started or ceases for 6 months.

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

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

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

- _____ Footing/Building Location Inspection: Prior to pouring concrete
- _____ Re-Bar Schedule Inspection: Prior to pouring concrete
- _____ Foundation Inspection: Prior to placing ANY backfill
- _____ Framing/Rough Plumbing/Electrical: Prior to any insulating or drywalling
- Final/~~Certificate of Occupancy~~: Prior to any occupancy of the structure or use. NOTE: There is a \$75.00 fee per inspection at this point.

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

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

NA CERTIFICATE OF OCCUPANICES MUST BE ISSUED AND PAID FOR, BEFORE THE SPACE MAY BE OCCUPIED

Pat O'P
Signature of Applicant/Designee

6-13-06
Date

Donna Martin Admin
Signature of Inspections Official

6-13-06
Date

CBL054 F033

Building Permit #:

060806



CITY OF PORTLAND, MAINE

Department of Building Inspections

5.30 2006

Received from

Norris Inc.

Location of Work

249 Vaughan

Cost of Construction

\$ _____

Permit Fee

\$ _____

Building (U) _____ Plumbing (U) _____ Electrical (U) _____ Site Plan (U) _____

Other

Fire System

CBL:

S/T 33

Check #:

019942

Total Collected \$

25.00

THIS IS NOT A PERMIT

No work is to be started until PERMIT CARD is actually posted upon the premises. Acceptance of fee is no guarantee that permit will be granted. PRESERVE THIS RECEIPT. In case permit cannot be granted the amount of the fee will be refunded upon return of the receipt less \$10.00 or 10% whichever is greater.

WHITE - Applicant's Copy

YELLOW - Office Copy

PINK - Permit Copy