Form # P 04	DISPLAY	THIS	CARD	ON	PRINCIPAL	FRONT	AGE C	DF V	VORK	
Please Reac Application Ar Notes, If Any	nd		CITY BU		F PORT		D			
Attached				P	ERMIT				r: 091230 ISSI	JED
This is to certif			ERTIES INC				PEN	1711 1	100.	
has permission	toaccomr	nodate and	adjust existi	i ire s	supp sion sy on fo	o r ne pace a	rrangement	NOV	1 0 2009	
AT							C001001 -			
of the pro the constr	visions of th ruction, main	e Statu	tes of Ma	e a	configuration ac nd of the Configuration uildings and st	nces of	the City	Gityp	britand	regulating
this depar	rtment.		-,							
	ublic Works for s if nature of work nation.		Not give befo lath HOI	nd w this or	vritte permissie pro	in. 2	procured	by ow		cy must be e this build- upied.
	REQUIRED APPRI	WALS	nu					<u> </u>		
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Appeal Board Other	Department Name				(<u>a</u>	Director - Bui			11/10/09
	Jepannen name		PENALT	Y FOI		HIS CARD				ţ I

City of Portland, Maine	- Building or Use	Permit App	lication Pe	rmit No:	Issue Date:	CBL:		
389 Congress Street, 04101	Tel: (207) 874-8703	, Fax: (207) 8	74-8716	09-1230		142 C001001		
Location of Construction:	Owner Name:		Owne	r Address:		Phone:		
1025 FOREST AVE	NEPTUNE PI	ROPERTIES IN	JC 120	EXCHANGE S	ST			
Business Name:	Contractor Name	:	Contr	actor Address:		Phone		
	High Tech Fir	e Proctection	P.O.	Box 156 Mino	t	2079982551		
Lessee/Buyer's Name	Phone:		Permi	it Type:		Zone:		
			Fire	e Suppression S	ystem	I-C-		
Past Use:	Proposed Use:		Perm	it Fee: C	Cost of Work:	CEO District: CR-2		
Commercial Office Connected	l w/ Commercial C	ffice - accomm	odate	\$70.00	\$4,300.00	4		
permit#09-0909	-	sting fire suppre		DEPT:	Approved INSPE	CTION:		
	system for new	v space arrange	ment		Denied Use Gr	oup: B Type: Van		
a stat iti						oup: B Type: Her Gonin Her L-2003		
"BACK apers le	gAL USC-		*	See Condi	TIONS TA	1-7107		
Proposed Project Description:	J			C	\sim $ $ 10			
accommodate and adjust exist	ing fire suppression sys	tem for new spa	ace Signat	ture: (KG	Signatu	Ire: MB 10/10/09		
arrangement			PEDE	PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)				
				n: 🗌 Approved	Approved w	Conditions Denied		
			Giana			Deter		
		r	Signa			Date:		
Permit Taken By:	Date Applied For:			Zoning A	pproval			
Ldobson	11/02/2009	Special Zone	or Daviane	Zoning	Anneal	Historic Preservation		
1. This permit application de	-		: of Reviews	ws Zoning Appeal		. /		
Applicant(s) from meeting	g applicable State and	Shoreland		Variance				
rederal Rules.	Federal Rules.					Not in District or Landmark		
2. Building permits do not include plumbing,		_						
	nclude plumbing,	Wetland			ous	Does Not Require Review		
septic or electrical work.						Does Not Require Review		
 septic or electrical work. Building permits are void 	if work is not started	Wetland Flood Zone						
 septic or electrical work. Building permits are void within six (6) months of the second second	if work is not started he date of issuance.	Flood Zone		 Miscellane Conditiona 	ıl Use	 Does Not Require Review Requires Review 		
 septic or electrical work. Building permits are void within six (6) months of the False information may involve the second s	if work is not started he date of issuance. validate a building				ıl Use	Does Not Require Review		
 septic or electrical work. Building permits are void within six (6) months of the second second	if work is not started he date of issuance. validate a building	Flood Zone Subdivision		Miscellane Conditiona Interpretati	ıl Use	 Does Not Require Review Requires Review Approved 		
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 septic or electrical work. Building permits are void within six (6) months of the False information may investigate and stop all work 	if work is not started he date of issuance. validate a building	 Flood Zone Subdivision Site Plan 	ı	Miscellane Conditiona Interpretati Approved	ıl Use	 Does Not Require Review Requires Review Approved Approved w/Conditions 		
 septic or electrical work. Building permits are void within six (6) months of the False information may investigate and stop all work 	if work is not started he date of issuance. validate a building	Flood Zone Subdivision	1	Miscellane Conditiona Interpretati	ıl Use	 Does Not Require Review Requires Review Approved 		
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 septic or electrical work. Building permits are void within six (6) months of the False information may involve permit and stop all work PERMIT 1	if work is not started he date of issuance. validate a building	Flood Zone Subdivision Site Plan Maj Minor	r MM ~	Miscellane Conditiona Interpretati Approved	il Use on	 Does Not Require Review Requires Review Approved Approved w/Conditions 		
 septic or electrical work. Building permits are void within six (6) months of the False information may investigate and stop all work 	if work is not started he date of issuance. validate a building	Flood Zone	r MM ~	 Miscellane Conditiona Interpretati Approved Denied 	il Use on	 Does Not Require Review Requires Review Approved Approved w/Conditions Denied 		

CERTIFICATION

City of Portland

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 - Buil	ding or Use Permit	,	Permit No:	Date Applied For:	CBL:	
389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-87	/1609-1230	11/02/2009	142 C001001	
Location of Construction:	Owner Name:		Owner Address:	Owner Address:		
1025 FOREST AVE	NEPTUNE PROPERT	TIES INC	120 EXCHANGE	ST		
Business Name:	Contractor Name:		Contractor Address:		Phone	
	High Tech Fire Procted	ction	P.O. Box 156 Mine	ot	(207) 998-2551	
Lessee/Buyer's Name	Phone:		Permit Type:			
			Fire Suppression S	System		
Proposed Use:		Pro	osed Project Description:			
Commercial Office - accommodate ar	d adjust existing fire	acc	ommodate and adjust	existing fire suppress	ion system for new	
suppression system for new space arra	angement	spa	ce arrangement			
Dept: Zoning Status: A	pproved with Condition	s Devieu	er: Marge Schmucka	l Approval Da	ite: 11/03/2009	
	pproved with Condition	5 Keview	er: Marge Schindeka			
Note:						
 This property shall remain Back C change of use shall require a separ 				roved as a general of	fice use. Any	
Dept: Building Status: A Note:	pproved with Condition	s Review	er: Jeanine Bourke	Approval Da	nte: 11/10/2009 Ok to Issue:	
1) Sprinkler systems to be designed a	and installed per IBC 20	03 standards	Sec. 903.3.1			
Dept: Fire Status: A	pproved with Condition	s Review	er: Marge Schmucka	l Approval Da	ite: 11/02/2009	
Note:					Ok to Issue: 🗹	
 Sprinkler protection shall be main Where the system is to be shut do system has been placed back in se 	wn for maintenance or re	epair, the sys	em shall be checked a	t the end of each day	to insure the	
 The Fire alarm and Sprinkler syste Compliance letters are required. 	ems shall be reviewed by	a licensed c	ontractor[s] for code c	ompliance.		
3) Any cutting or welding operations	require a seperate perm	it from the F	ire dept.			
4) The sprinkler system shall be insta	alled in accordance with	NFPA 13.				
5) Application requires State Fire Ma	arshal approval.					
6) System acceptance and commission Department. Call 874-8703 to sch		ed with alarr	and suppression syste	em contractors and th	e Fire	

PERMIT ISSUED

NOV 1 0 2009

City of Portland



Fire Suppression System 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: 1037 Forest Ave	_ CBL:
Exact location: (within structure)	7
Type of occupancy(s) (NFPA & ICC):	ight Hazard.
Building owner: Tim A/bar	
Managing Supervisor: <u>Ed Bulin</u>	License No: 108534/ 515
Supervisor phone:	E-mail:
Installing contractor: <u>High Tech Fire Protection</u>	a License No:
Contractor phone 07-998 - 2551	
	ation: 🕑 Addition to existing system: 🗌
This is an amendment to an existing permit: Yes: NO	Permit no: ME Permit #8806
NFPA Standard will this system is designed to:	Edition:
*Non-NFPA systems are not approved for use within the City of Portland.	d/
Download a new copy of this document from Inspection Division on-line	COST OF WORK: 4300.00
at www.portlandmaine.gov for every submittal. Attach all design	
information and complete approved submittals as may be	#
required by the State Fire Marshal's Office on 11X17 copies or	PERMIT FEE: 470
electronic PDF's in <u>addition</u> to full sized plans.	(\$10 PER \$1,000 + \$30 FOR THE FIRST \$1,000)
Contractor shall verify location and type of all FDCs shall	
be approved in writing by the Fire Prevention Bureau.	
Submit all information to the Building Inspections Department, 389 Cong	gress Street, Room 315, Portland, Maine 04101.

Prior to acceptance of any fire protection 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 NFPA and the Fire Department Technical Standard(s).

Edward M Pontin Date: 9-25-0 Applicant signature: OCT 30 2009

Dept. of Building Inspections City of Portland Maine

High Tech Fire Protection

Po Box 156 Minot, Maine 04258 Tel: 207-998-2551 Fax: 207-998-4187

To: Buildings Inspections Department 389 Congress Street, Room 315 Portland, ME 04101

We are sending you

Letter of Transmittal

Date: 10/05/09

Job No.

Attention: Buildings Inspections Department

Re: 1037 Forest Ave. Office Renovation.

□ Owners Manuals	s 🛛 Preliminary 🛛	Plans	🗆 Asbui	lt Plans	□ Hydraulic Calculations
Product Data	Permit Check		Permit	Appl:co	tion torm

Copies	Date	No.	Description
1	10/05/09		Permit Application Form
1	10/05/09		State Permit for project.
	_		

These are Transmitted as checked below:

For Approval

□ For your use

Breturn _____ Permit

 \Box As requested

Π_____

□ For review and comment

Comments: A summary of this project: We are reworking 60 existing heads to accommodate a revised ceiling layout. The building is an office space (light hazard) and all heads will be reworked in compliance with NFPA 13. 225 sq.ft per head max. This application does not require drawings per the State fire marshals office.

Signed: Ed Poulin Ed Bulin Cpoulin @fairpoint.net



State of Maine Department of Public Safety Fire Sprinkler System Permit



8806

Department of Health and Human Services

Located at:1037 Forest AveIn the Town of:PortlandOccupancy/Use:OfficesType of System:NFPA 13

Permission is hereby given to:

High Tech Fire Protection Co., Inc. PO Box 156 Minot, ME 042580156 Contractor License # 102

according to plans submittal filed with the Licensing and Inspections Unit and are now approved.

This application form/plans are filed under log # **2091371**, and no departure from application form/plans shall be made without prior approval in writing. This permit is issued under the provisions of Title 32, Chapter 20, Section 12004-I. Nothing herein shall excuse the holder of this permit for failure to comply with local ordinances, zoning laws, or other pertinent legal restrictions. Each permit issued shall be displayed/available at the site of construction.

This permit was issued on10/4/2009for a fee paid of \$100.00This permit will expire at midnight onFriday, April 02, 2010

~ #.×

Anne H. Jordan Commissioner

Fire Department Connection Location/Type per Local Fire Department

Within 30 days of the completion of a new fire sprinkler system or an addition to an existing fire sprinkler system, a fire sprinkler system contractor shall provide to the Licensing and Inspections Unit a copy of this permit signed and dated by the certified responsible managing supervisor representing that the fire sprinkler system has been installed according to specifications of the approved plan to the best of the supervisor's knowledge, information, and belief. This requirement is part of the sprinkler law, and neglect of this duty is grounds to not renew the contractor's license to do work in the State of Maine. All sprinkler licenses expire June 30th every year.

Job completed, tested and verified on date of	
---	--

RMS for this job: Poulin Edward M.

RMS Signature:

Form # P 04	DISPLAY	THIS	CARD	ON	PRINCIPAL	. FRONT	AGE	OF	WORK	
Please Rea Application A			CITY BU				D			
Notes, if An Attached			20	P	PERMIT		PE	RM	TT ISS	UED
This is to certi	ify that <u>NEPTU</u>	NE PROPE	ERTIES INC	rris	, Inc					
has permissio	n toinstall Fi	re Alarm						NON	/ - 4 2009	<u>}</u>
AT 1025 FOR	REST AVE					CBI 142 C	2001001			-
provided	that the perso	on or pe	ersons, fi	or	contraction a	ical Uting t	his pe	rmii ^t ¥	ก็ม่าใจปลา	βly with all
•					nd of the Or			-		
		tenanco	e and use	bi	uildings and s	true ures,	and of	the a	pplicatio	n on file in
this depa	rtment.									
	Public Works for s if nature of work mation.		Noti give befo lath HOL	nd w his or	vritte iermissic buil ig or pa	nust be rocurec ereof is I-in. 24 ID.	procur	ed by o		cy must be e this build- upied.
OTHE Fire Dept(ER REQUIRED APPE	BVALS	<u> </u>							
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Other	Department Name						Director -	- Building &	Inspection Services	<u></u>
			PENALT	Y FOI	R REMOVING 1	THIS CARD		·····		
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										¢.

City of Fornand, Main	ie - Building or Use	Permit Application	on rei	rmit No:	Issue Date:	CBL:	
389 Congress Street, 0410	01 Tel: (207) 874-8703	, Fax: (207) 874-87	/16	09-1129		142 C001001	
Location of Construction: Owner Name:			Owner	Owner Address: Phone:			
1025 FOREST AVE	ROPERTIES INC	120	EXCHANGE	ST			
Business Name:	:	Contra	actor Address:		Phone		
	Norris, Inc.		2257	W Broadway	, PO Box 2551 Se	out 2078833473	
Lessee/Buyer's Name	Phone:		Permit Type: Fire Alarm System			Zone:	
Past Use:	Proposed Use:		Perm	it Fee:	Cost of Work:	CEO District:	
Commercial - Office Suite1	1 - Commercial -	Office Suite11 -		\$40.00	\$1,800.00	4	
connected w/ permit#09090	9 install Fire Ala	arm	FIRE	DEPT:		CTION:	
					Denied Use Gr	roup: U Type: Alia	
						- ,,,,	
			₩	See Condi	TIOUS	NEPAN	
Proposed Project Description:			7	1	\mathcal{T}		
install Fire Alarm			Signat	ture: (K	Signati	ire:	
			PEDE	STRIAN ACTIV	ITIES DISTRICT (P.A.D.)	
			Actio	n: Approve	d Approved w	Conditions Denied	
			Signat	ture:		Date:	
Permit Taken By:	Date Applied For:			Zoning A	Approval		
Ldobson	10/08/2009						
1. This permit application	does not preclude the	Special Zone or Reviews		s Zoning Appeal		Historic Preservation	
• • •	ing applicable State and	Shoreland		Variance		Not in District or Landma	
Federal Rules.				_			
2. Building permits do not	t include plumbing.	Wetland		Miscellaneous		Does Not Require Review	
septic or electrical work						-	
•	oid if work is not started	Flood Zone		Condition	al Use	Requires Review	
within six (6) months of						-	
False information may in permit and stop all work	Subdivision		Interpretat	tion	Approved		
		Site Plan		Approved		Approved w/Conditions	
DEDMIT	ISSUED	Maj 🎁 Minor 🖵 Mi) J	Denied		Denied	
PERIVIT		Date:	P.r.				
		Date: 10/9/	04	Date:	D	Date:	
VOV	- 4 2009 -	· · / //	~]	
NOT		·					
-	of Portland						

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 or 874-8693 (ONLY) to schedule your inspections as agreed upon Permits expire in 6 months, if the project is not started or ceases for 6 months.

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

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

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

X Final inspection required at completion of work performed by the Fire Department.

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

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

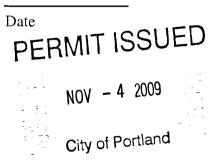
CERIFICATE OF OCCUPANICES MUST BE ISSUED AND PAID FOR, BEFORE THE SPACE MAY BE OCCUPIED.

Mike Florideno

Signature of Applicant/Designee

Signature of Inspections Official

<u>1-4-09</u> Date



CBL: 142 C001001

Building Permit #: 09-1129

City of Portland, Maine - B 389 Congress Street, 04101 Te	U		Permit No: 09-1129	Date Applied For: 10/08/2009	CBL: 142 C001001
Location of Construction:	Owner Name:		Owner Address:		Phone:
1025 FOREST AVE	NEPTUNE PROPERT	TIES INC	120 EXCHANGE	ST	
Business Name:	Contractor Name:		Contractor Address:		Phone
	Norris, Inc.		2257 W Broadway	, PO Box 2551 Sout	(207) 883-3473
Lessee/Buyer's Name	Phone:		Permit Type:		
			Fire Alarm System	n	
Proposed Use:		Propos	ed Project Description:		
Commercial - Office Suite11 - inst	all Fire Alarm	-	Fire Alarm		
Donte Zaning State	Approved		Marga Sahausta	Annuaral D-	te: 10/09/2009
	Approved	Reviewer	: Marge Schmucka		
Note:					Ok to Issue: 🗹
Dept: Building Status:	Approved with Condition	e Roviowor	: Tammy Munson	Approval Da	te: 11/03/2009
	Approved with Condition	.5 Keviewei	. Tanniny Munson		Ok to Issue:
Note:	and the distance of the		-L		
1) The fire alarm wiring must be	metal sneathed if the buildi	ng is of non-con	ndustible construction	on.	
Dept: Fire Status:	Approved with Condition	s Reviewer	: Capt Keith Gautr	eau Approval Da	ite: 10/20/2009
Note:	11		1		Ok to Issue:
1) Fire Alarm system shall be ma	intained				
If system is to be off line over		a in place	and the second	A new strategy and a strategy of the strategy	and the second
CITY OF PORTLAND, MAINE Department of Building Inspections Original Receipt	BU	Certificate of Occupancy Fee:	Plumbing (I5) Electrical (I2) Site Plan (U2)	*. Total Collected s No work is to be started until permit issued. Please keep original receipt for your records.	Taken by:



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:1025	forest	Ave		_ CBL:!	42	001001
Exact location: (within structure) _	Soile	11				
Type of occupancy(s) (NFPA & IC	C): <u>B</u>	USiness	10ffic	<u>e</u>		
Building owner: <u>A. Hous M</u>	ann A	ssoc,				
System Designer: Nort's 7						
Designer phone: <u>800 320</u>	3473			E-mail:		
Installing contractor: Nornis	Inc.			_License No: _		
Contractor phone: <u>800 3</u>	<u>347</u>	3		_E-mail:		
This is a new application:		YES 🔀	NO			
This is an amendment to an existing	g permit:	YES 🗌	NO	Permit no:		
The following documents have been	provided w	ith this applic	ation:			JA
Floor plans:	YES 🗶	NO[COST OF W	ORK:	\$1800
Wiring diagram:	YES 🕅	NO[]	PERMIT FER		+ \$30 FOR THE FIRST \$1,000)
Annunciator details:	YES 🕵	NO[(\$101 EK.	\$1,000	+ \$5010K THE FIKS1 \$1,000)
Bid specifications:	YES 🗔	NO[
Equipment data sheets:	YES 🕅	NO[
Battery & voltage drop calculations	:YES 💋	NO[
Input/ Output Matrix:	YES 😼	NO	XI			
Designer/ personnel qualifications:	YES 🔁	NO[
Download a new copy of this docume	nt from In	spection Divis	ion on-line at	www.portland	<u>maine.</u>	gov for every submittal. Submit
all plans on 11X17 copies or elect	ronic PDI	F's in <u>additio</u>	on to full size	ed plans to the	e Build	ling Inspections Department,

389 Congress Street, Room 315, Portland, Maine 04101. Prior to acceptance of any fire alarm system, a complete commissioning and acceptance tes Pauro Cordinal de Cordinal de

fire system contractors and the Fire Department, and proper documentation of such test(s) provided.

All installation(s) must comply with NFPA 70, NFPA 72, and Fire Department Technical Standar OG



Dept. of Building Inspections City of Portland Maine

Applicant s	ignature: _
-------------	-------------

Date: _____

Annunciators

N-ANN-80

80-Character LCD Serial Annunciator

by Honeywell

General

The N-ANN-80 annunciator is a compact, backlit, 80-character LCD fire annunciator that mimics the Fire Alarm Control Panel (FACP) display. It provides system status indicators for AC Power, Alarm, Trouble, Supervisory, and Alarm Silenced conditions. The N-ANN-80 and the FACP communicate over a two-wire serial interface employing the ANN-BUS communication format. Connected devices are powered, via two additional wires, by either the host FACP or a remote UL-listed, filtered power supply. N-ANN-80 is black; for white order N-ANN-80-W.

The N-ANN-80 displays English-language text of system point information including device type, zone, independent point alarm, trouble or supervisory status, as well as any custom alpha labels programmed into the control panel. It includes control switches for remote control of critical system functions. (A keyswitch prevents unauthorized operation of the control switches.)

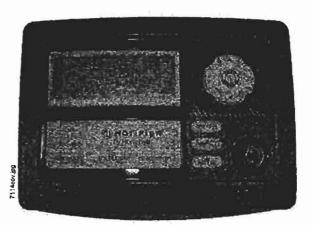
Up to eight N-ANN-80s may be connected to the ANN-BUS of each FACP. Minimal programming is required, which saves time during system commissioning. The N-ANN-80 is compatible with NOTIFIER FACPs with an ANN-BUS, such as the NFW-50.

Features

- Listed to UL Standard 864, 9th Edition.
- Backlit 80-character LCD display (20 characters x 4 lines).
- · Mimics all display information from the host panel.
- Control switches for System Acknowledge, Signal Silence, Drill, and Reset.
- Control switches can be independently enabled or disabled at the FACP.
- Keyswitch enables/disables control switches and mechanically locks annunciator enclosure
- Keyswitch can be enabled or disabled at the FACP.
- Enclosure supervised for tamper.
- System status LEDs for AC Power, Alarm, Trouble, Supervisory, and Alarm Silence.
- · Local sounder can be enabled or disabled at the FACP.
- N-ANN-80 connects to the ANN-BUS terminal on the FACP and requires minimal panel programming.
- Displays device type identifiers, individual point alarm, trouble, supervisory, zone, and custom alpha labels.
- Time-and date display field.
- Surface mount directly to wall or to single, double, or 4" square electrical box.
- Semi-flush mount to single, double, or 4" square electrical box. Use ANN-SB80KIT for angled view mounting.
- Can be remotely located up to 6,000 feet (1,800 m) from the panel.
- Backlight turns off during AC loss to conserve battery power but will turn back on if an alarm condition occurs.
- May be powered by 24 VDC from the host FACP or by remote power supply (requires 24 VDC).
- Up to eight N-ANN-80s can be connected on the ANN-BUS.

Controls and Indicators

- AC Power
- Alarm



Trouble

- Supervisory
- Alarm Silenced

Specifications

- Operating voltage range: 18 VDC to 28 VDC.
- Current consumption @ 24 VDC nominal (filtered and nonresettable): 40 mA maximum.
- Ambient temperature: 32°F to 120°F (0°C to 49°C).
- Relative humidity: 93% ± 2% RH (noncondensing) at 32°C ± 2°C (90°F ± 3°F).
- 5.375" (13.65 cm.) high x 6.875" (17.46 cm.) wide x 1.375" (3.49 cm.) deep.
- · For use indoors in a dry location.
- All connections are power-limited and supervised.

Agency Listings and Approvals

The listings and approvals below apply to the N-ANN-80. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- UL: S635
- FM approved
- · CSFM: 7120-0028:240
- MEA: 442-06-E Vol. 2

The ANN-BUS

POWERING THE DEVICES ON THE ANN-BUS FROM AUXILIARY POWER SUPPLY

The ANN-BUS can be powered by an auxiliary power supply when the maximum number of ANN-BUS devices exceeds the ANN-BUS power requirements. See the FACP manual for more information.

ANN-BUS DEVICE ADDRESSING

Each ANN-BUS device requires a unique address (ID Number) in order to communicate with the FACP. A maximum of 8 devices can be connected to the FACP ANN-BUS communication circuit. See the FACP manual for more information.

WIRE REQUIREMENTS: COMMUNICATIONS CIRCUIT

The N-ANN-80 connects to the FACP ANN-BUS communications circuit. To determine the type of wire and the maximum wiring distance that can be used with FACP ANN-BUS accessory modules, it is necessary to calculate the total worst case current draw for all modules on a single 4-conductor bus. The total worst case current draw is calculated by adding the individual worst case currents for each module.

NOTE: For total worst case current draw on a single ANN-BUS refer to appropriate FACP manual.

After calculating the total worst case current draw, the following table specifies the maximum distance the modules can be located from the FACP on a single wire run. The table ensures 6.0 volts of line drop maximum. In general, the wire length is limited by resistance, but for heavier wire gauges, capacitance is the limiting factor.

These cases are marked in the chart with an asterisk (*). Maximum length can never be more than 6,000 feet (1,800 m), regardless of gauge used. See table below.

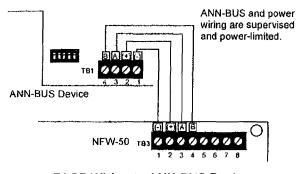
WIRE REQUIREMENTS: POWER CIRCUIT

- 14 to 18 AWG (0.75 2.08 mm²) wire for 24 VDC power circuit is acceptable.
- · All connections are power-limited and supervised.
- A maximum of eight N-ANN-80 modules may be connected to this circuit.

Total Worst Case Current Draw (amps)	22 Gauge	18 Gauge	16 Gauge	14 Gauge
0.100	1,852 ft.	4,688 ft.	* 6,000 ft.	*6,000 ft
0.200	926 ft.	2,344 ft.	3,731 ft.	5,906 tt
0.300	617 ft.	1,563 ft.	2,488 ft.	3,937 ft
0.400	463 ft.	1,172 ft.	1,866 ft.	2,953 ft
0.500	370 ft.	938 ft.	1,493 ft.	2,362 ft
0.600	309 ft.	781 ft.	1,244 ft.	1,969 ft
0.700	265 ft.	670 ft.	1,066 ft.	1,687 ft
0.800	231 ít.	586 ft.	933 ft.	1,476 ft
0.900	206 ft.	521 ft.	829 ft.	1,312 ft
1.000 (max.)	185 fl.	469 ft.	746 ft.	1,181 ft

WIRING CONFIGURATION

The following figure illustrates the wiring between the FACP and ANN-BUS devices.



FACP Wiring to ANN-BUS Device

ORDERING OPTIONS:

N-ANN-80: Black 80 character LCD Annunciator.

N-ANN-80-W: White, 80 character LCD Annuncialor.

ANN-SB80KIT-B: Black surface mount backbox with angled wedge.

ANN-SB80KIT-W: White surface mount backbox with angled wedge.

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Page 2 of 2 - dn-7114:c • 5/22/09

NOT-BG12LX(A)

Addressable Manual Pull Station For FireWarden Series Panels

Intelligent/Addressable Devices

NOTIFIER®

by Honeywell

General

The Notifier NOT-BG12LX is a state-of-the-art, dual-action (i.e., requires two motions to activate the station) pull station that includes an addressable interface for FireWarden series intelligent control panels. Because the NOT-BG12LX is addressable, the control panel can display the exact location of the activated manual station. This leads fire personnel quickly to the location of the alarm.

Features

- Maintenance personnel can open station for inspection and address setting without causing an alarm condition.
- Built-in bicolor LED, which is visible through the handle of the station, flashes in normal operation and latches steady red when in alarm.
- Handle latches in down position and the word "ACTIVATED" appears to clearly indicate the station has been operated.
- Captive screw terminals wire-ready for easy connection to SLC loop (accepts up to 12 AWG/3.25 mm² wire).
- Can be surface mounted (with SB-10 or SB-1/O) or semiflush mounted. Semi-flush mount to a standard singlegang, double-gang, or 4" (10.16 cm) square electrical box.
- Smooth dual-action design.
- Meets ADAAG controls and operating mechanisms guidelines (Section 4.1.3[13]); meets ADA requirement for 5 lb. maximum activation force.
- · Highly visible.
- Altractive shape and textured finish.
- Key reset.
- · Includes Braille text on station handle.
- Optional trim ring (BG12TR).
- Meets UL 38, Standard for Manually Actuated Signaling Boxes.

Construction

Shell, door, and handle are molded of durable polycarbonate material with a textured finish.

Specifications

- · Shipping Weight: 9.6 oz. (272.15 g)
- Normal operating voltage: 24 VDC.
- Maximum SLC loop voltage: 28.0 VDC.
- Maximum SLC loop current: µA.
- Temperature Range: 32°F to 120°F (0°C to 49°C)
- Relative Humidity: 10% to 93% (noncondensing)
- For use indoors in a dry location

Installation

The NOT-BG12LX will mount semi-flush into a single-gang, double-gang, or standard 4" (10.16 cm) square electrical outlet box, or will surface mount to the model SB-10 or SB-I/O surface backbox. If the NOT-BG12LX is being semi-flush mounted, then the optional trim ring (BG12TR) may be used.



The NOT-BG12LX Addressable Manual Pull Station

The BG12TA is usually needed for semi-flush mounting with 4" (10.16 cm) or double-gang boxes (not with single-gang boxes).

Operation

Pushing in, then pulling down on the handle causes it to latch in the down/activated position. Once latched, the word "ACTI-VATED" (in bright yellow) appears at the top of the handle, while a portion of the handle protrudes from the bottom of the station. To reset the station, simply unlock the station with the key and pull the door open. This action resets the handle; closing the door automatically resets the switch.

Each manual station, on command from the control panel, sends data to the panel representing the state of the manual switch. Two rotary declmal switches allow address settings (1 - 99 on NFW2-100/NFW2-100C, 1 - 50 for NFW-50/NFW-50C).

Architectural/Engineering Specifications

Manual Fire Alarm Stations shall be non-coded, with a keyoperated reset lock in order that they may be tested, and so designed that after actual Emergency Operation, they cannot be restored to normal except by use of a key. An operated station shall automatically condition itself so as to be visually detected as activated. Manual stations shall be constructed of red-colored polycarbonate material with clearly visible operating instructions provided on the cover. The word FIRE shall appear on the front of the stations in white letters, 1.00 inches (2.54 cm) or larger. Stations shall be suitable for surface mounting on matching backbox SB-10 or SB-I/O; or semi-flush mounting on a standard single-gang, double-gang, or 4" (10.16 cm) square electrical box, and shall be installed within the limits defined by the Americans with Disabilities Act (ADA) or per national/local requirements. Manual Stations shall be Underwriters Laboratories listed.

Manual stations shall connect with two wires to one of the control panel SLC loops. The manual station shall, on command from the control panel, send data to the panel representing the state of the manual switch. Manual stations shall provide address setting by use of rotary decimal switches.

Product Line Information

NOT-BG12LX: Dual-action addressable pull station. Includes key locking feature.

NOT-BG12LXA: Canadian Dual-action addressable pull station. Includes key locking feature.

SB-10: Surface backbox; metal.

SB-I/O: Surface backbox; plastic.

BG12TR: Optional trim ring.

17021: Keys, set of two.

Agency Listings and Approvals

In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- UL Listed: S692 (listed for Canadian and non-Canadian applications)
- · MEA: 67-02-E Vol. IV
- CSFM: 7150-0028:199
- FM Approved

Patented:

U.S. Patent No. D428,351; 6,380,846; 6,314,772; 6,632,108.

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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.

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DN-5765:A • J-120

Wheelock RSS & RSSP Series Single- and Multi-Candela Strobes and Strobe Plates



General

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 appliances.

Strobe options for wall mount models include 15/75 or Wheelock's patented MCW multi-candela strobe with field selectable candela settings of 15/30/75/110cd. 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 when used in conjunction with the Wheelock SM or DSM Sync Modules or a power supply 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 ofter an easy way to comply with ADA recommendations concerning photosensitive epilepsy as well as meetings 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.

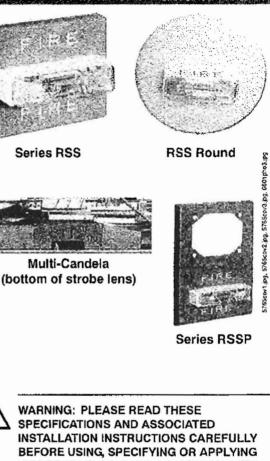
The Series RSSP Multi-Candela Strobe Plates are a cost effective way to retrofit required wall strobe appliances to bells, horns, chimes, multitones, or speakers and easily mounts to standard 4" backboxes or, for surface mount, use with Whee-lock's SBL2 surface backbox.

Features

- 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 15/75cd.
- Ceiling mount multi-candela models are available with field selectable candela settings of 15/30/75/95cd or 115/177cd.
- 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 with Wheelock SM or DSM Sync Modules or power supplies with built-in Sync Protocol.
- ADA/NFPA/UFC/ANSI compliant. Meets OSHA 29 Part 1910.165.

General Notes

- RSS/RSSP Series strobe products are listed under UL 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."



INSTALLATION INSTRUCTIONS CAREFULLY BEFORE USING, SPECIFYING OR APPLYING THIS PRODUCT. FAILURE TO COMPLY WITH ANY OF THE FOLLOWING INSTRUCTIONS, CAUTIONS AND 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.

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

Table 1: Audibles/Speakers for RSSP Strobe Plate				
Product	Series			
Multitone Appliances	AMT, MT			
Horns	AH, NH, HS			
Motor Bells	MB-G6/G10			
Speakers	ET-1010/1080, E70, ET70			
Chimes	CH70			

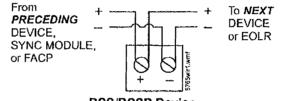
RSS/RSSP		Ceiling Mount											
24 VDC	241575W	24MCW			24M	CWH	24MCC				24MCCH		
Models	1575cd	15cd	30cd	75cd	110cd	135cd	185cd	15cd	30cd	75cd	95cd	115cd	177cd
UL max*	.090	.060	.092	.165	.220	.300	.420	.065	.105	.189	.249	.300	.420
RSS/RSSP 24 VDC	RSS/RSSP Wali Mount											is the ma	
Models	121575W											e UL max current is	
12VDC	.152	at the	e listed v	oltage (33V for 2	4V units)	For unfil	tered F	NR ratin	ngs, see	installa	tion instru	uctions.
UL max*	.255	1											

Table 3:	Table 3: Sync Modules/Power Supplies								
Mode Numb		Order Code	Input Voltage (VDC)	Average Mean Current @ 24VDC	Mounting Options				
SM-12/24	-R	6369	24	.028	W				
DSM-12/2	24-R	6374	24	.035	W				

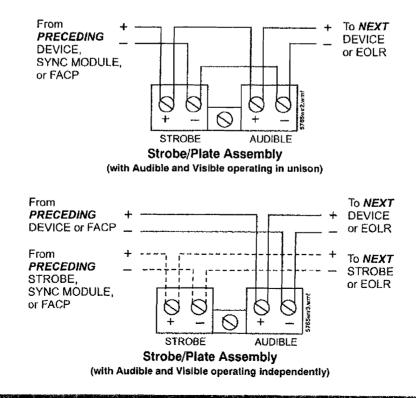
NOTE: SM Sync Module is rated for 3.0 amperes 24VDC.

DSM Sync Module is rated for 3.0 amperes per circuit. The maximum number of interconnected DSM modules is twenty (20).

Wiring Diagrams

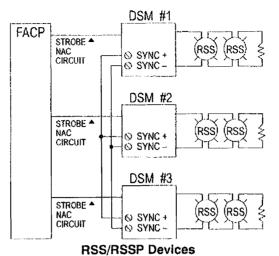


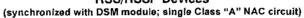
RSS/RSSP Device

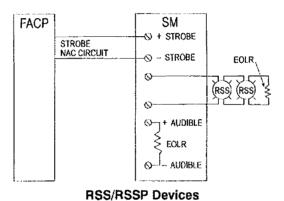


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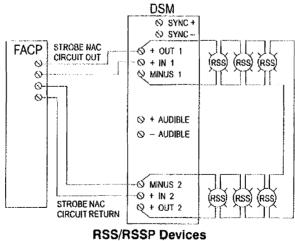
Wiring Diagrams (continued)







(synchronized with SM module; single Class "B" NAC circuit)



HSS/HSSP Devices (synchronized with multiple DSM modules) (NOTE: INTERCONNECTING WIRING SHOWN. MAXIMUM OF 20 DSM MODULES)

For details on using the SM or DSM Sync Modules see installation instructions #P83123 (for SM) or #P83177 (for DSM).

WARNING: CONTACT WHEELOCK FOR THE CURRENT INSTALLATION INSTRUCTIONS AND GENERAL INFORMATION SHEET (P82380) ON THESE PRODUCTS. THESE DOCUMENTS UNDERGO PERIODIC CHANGES. IT IS IMPORTANT THAT YOU HAVE CURRENT INFORMATION ON THE 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.
- COMPOSITE FLASH RATE FROM MULTIPLE STROBES WITHIN A PERSON'S FIELD OF VIEW.
- ADDING, REPLACING OR CHANGING APPLIANCES OR CHANGING CANDELLA 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 SOURCES OR FUSES.
- THE VOLTAGE APPLIED TO THE 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 CYCLED ON AND OFF AS THE STROBE MAY NOT FLASH.
- FAILURE TO COMPLY WITH THE INSTALLATION INSTRUCTIONS OR GENERAL INFORMATION SHEETS COULD RESULT IN IMPROPER INSTALLATION, APPLICATION, AND/OR 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.

Architectural/Engineering Specifications

The visual notification appliances shall be Wheelock Series RSS Strobe Appliances or approved equals. The Series RSS shall meet and be listed for UL Standard 1971 (Emergency Devices for the Hearing Impaired) for indoor Fire Protection Service. The strobe shall be listed for indoor use and shall meet the requirements of FCC Part 15 Class B. The strobe appliances shall produce a flash rate of one (1) flash per second over the Regulated Voltage Range and shall incorporate a Xenon flashtube enclosed in a rugged Lexan® lens. All inputs shall be compatible with standard reverse polarity supervision of circuit wiring by a Fire Alarm Control Panel (FACP). When Strobe Plates are to be installed, they shall be the Wheelock Series RSSP Strobe Plate and shall have the same electronic circuitry as the Wheelock Series RSS.

The Series RSS Strobe shall be of low current design. Where Multi-Candela appliances are specified, the strobe intensity shall have field selectable settings and shall be rated per UL Standard 1971 at 15/30/75/110cd or 135/185cd for wall mount and 15/30/75/95cd or 115/175cd for ceiling mount. The selector switch for selecting the candela shall be tamper resistant. The 1575 candela strobe shall be specified when 15 candela UL Standard 1971 Listing with 75 candela on axis is required (e.g. ADA compliance).

When synchronization is required, the appliance shall be compatible with Wheelock's SM or DSM Sync Modules or a power supply with built-in Patented Wheelock Sync Protocol. The strobes shall not drift out of synchronization at any time during operation. If the Sync Module or power supply fail to operate (i.e. contacts remain closed), the strobe shall revert to a nonsynchronized flash rate. The strobes shall be designed for indoor surface or flush mounting. The Series RSS Strobe Appliances shall incorporate a Patented, integral Strobe Mounting Plate that shall allow mounting to single-gang, double-gang, 4-inch square, 100mm European type backboxes, or the SHBB Surface Backbox. If required, an NATP (Notification Appliance Trimplate) shall be provided. An attaching cover plate shall be provided to give the appliance an attractive appearance. The appliance shall not have any mounting holes or screw heads visible when the installation is completed.

The Series RSSP Multi-Candela or single candela Strobe Plate shall mount to either a standard 4-inch square backbox for flush mounting, or the Wheelock SBL2 backbox for surface mounting.

All notification appliances shall be backward compatible. NOTE: Due to continuous development of our products, specifications and offering are subject to change without notice in accordance with Wheelock, Inc. standard terms and conditions.

Listings and Approvals

These listings and approvals apply to the modules specified in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in progress. Consult factory for listing status.

- ULC Listed: E5391
- ULC Listed: CS 356
- CSFM: 7125-0785:141
- MEA: 151-92-E. Vol. XIX, XX; Vol. XXIV (RSS-24MCW-FR/-FW)
- FM Approved

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Ordering Information

Model	Wall/ Ceiling Mount	Non- Sync	Sync w/ SM, DSM	Strobe Candela	12/24 VDC	Model Color	Model Shape	Agency Approvals
RSS-24MCW-FR	Wati	X	Х	15/30/75/110	24	Red	Square	UL, MEA, CSFM, FM, BFP
RSS-24MCW-FW	Wall	X	Х	15/30/75/110	24	White	Square	UL, MEA, CSFM, FM, BFP
RSS-241575W-FR	Wall	X	X	15 (75 on axis)	24	Red	Square	UL, MEA, CSFM, FM, BFP
RSS-24MCC-FW	Ceiling	X	Х	15/30/75/95	24	White	Square	UL, MEA, CSFM, FM
RSS-24MCC-FR	Ceiling	Х	Х	15/30/75/95	24	Red	Square	UL, MEA, CSFM, FM
RSS-24MCCR-FW	Ceiling	Х	Х	15/30/75/95	24	White	Round	UL, MEA, CSFM, FM
RSS-24MCCHR-FW	Ceiling	Х	Х	115/177	24	White	Round	UL, MEA, CSFM, FM
RSSWP-2475W-FR	Wall	×	x	180 @ 77°F 75 @ -31°F	12/24	Red	Square	UL, MEA, CSFM, FM

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dn-6601:a • J-134

Wheelock NS/NH Series

NS Series Horn Strobes NH Series Horns

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.

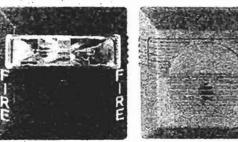
All models of the Series NS and NH are designed for maximum performance, reliability and cost-effectiveness while meeting or exceeding the latest requirements of NFPA 72/ ANSI 117.1/UFC and UL Standards 1971 and 464 as well as meeting ADA requirements concerning photosensitive epilepsy.

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" (10.16c m) 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.

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).



) NOTIFIER[®]

by Honeywell

NS Horn Strobe

NH Horn



5601pho1.pg: 6501pho2.pg: 6501pho3.pg

 "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."

(bottom of Strobe Lens)

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.

	Strobe		
Model	Input Voltage VDC	Voltage Range VDC/FWR	Candela (CD)
NS-24MCW	24	16.0-33.0	15/30/75/110
NS-241575W	24	16.0-33.0	15 (75 on axis)

dn-6601:a + 4/18/08 - Page 1 of 4

Table 2: dBA Ratings for Series NS/NH Horn								
Description	Volume	dE	berant 3A per UL 54	Anechoic dBA @ 10ft				
		12VDC	24VDC	12VDC	24VDC			
Conlinuous	High	83	87	89	95			
Horn	Low	76	81	84	90			
0	High	79	82	89	95			
Code 3 Horn	Low	72	76	84	90			

Table 3: *Average RMS Current Ratings									
NS	-24MCW w	ith High (95	5 dBA) Setti	ing					
Voltage	15cd	30cd	75cd	110cd					
16.0 VDC	.077	.113	.195	.268					
24.0 VDC	.065	.087	.134	.174					
33.0 VDC	.069	.085	.117	.134					
NS	-24MCW w	ith Low (90	dBA) Setti	ng					
Voltage	15cđ	30cd	75cd	110cd					
16.0 VDC	.070	.106	.188	.261					
24.0 VDC	.052	.072	.126	.158					
33.0 VDC	.045	.060	.097	.114					

* 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 UL Listed voltage range for both filtered DC and VRMS (FWR), see installation instructions.

Table 4: *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						

Table 5: *Average Mean Current Ratings NH Horn 24 Volt Models

Voltage	High (95) dBA	Low (90) dBA
16.0 VDC	.019	.017
24.0 VDC	.028	.022
33.0 VDC	.039	.027

Table 6: 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		

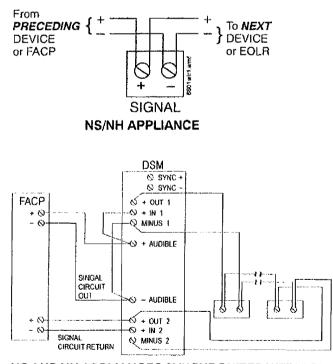
Series NS/NH 24 VDC		Audible	Wall Mount Strobe Models						
		NH-12/24	NS-241575W	NS-24MCW					
		@24VDC	15/75cd	15cd	30cd	75cd	110cd		
High (95) dBA	24VDC	.044	.104	.074	.107	.184	.244		
Low (90) dBA	24VDC	.018	.096	.066	.101	.177	.232		
<u> </u>		Audible	Audible Wall Mount ** RMS current ratings are per UL av RMS method. UL max current rating						
Series NS/NH 12 VDC		NH-12/24	Aud/Strobe	imum RMS current within the listed vo range (16-33V for 24V units). For strol			d voltage		
		@12VDC	NS-121575W	UL max current is usually at the minimum lis voltage (16V for 24V units). For audibles, th					
High (95) dBA	12VDC	.021	.220	max current is usually at the listed voltage (3					
Low (90) dBA	12VDC	.012	.210	for 24V units). For unfiltered FWR ra					

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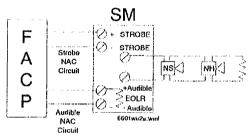
WARNING: CONTACT WHEELOCK FOR THE CURRENT INSTALLATION INSTRUCTIONS (P83983) SERIES NS-24MCW, (P84234) SERIES NS-12 AND 24 VDC SINGLE CANDELA MODELS, (P83600) SERIES NH AND "GENERAL INFORMATION" SHEET (P82380) ON THESE PRODUCTS. THESE DOCUMENTS UNDERGO PERIODIC CHANGES. IT IS IMPORTANT THAT YOU HAVE CURRENT INFORMATION ON THE 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.
- COMPOSITE FLASH RATE FROM MULTIPLE STROBES WITHIN A PERSON'S FIELD OF VIEW.
- ADDING, REPLACING OR CHANGING APPLIANCES OR CHANGING CANDELLA 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 SOURCES OR FUSES.
- THE VOLTAGE APPLIED TO THE 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.
- THESE APPLIANCES ARE NOT DESIGNED TO BE USED ON CODED SYSTEMS IN WHICH THE APPLIED VOLTAGE IS CYCLED ON AND OFF.
- FAILURE TO COMPLY WITH THE INSTALLATION INSTRUCTIONS OR GENERAL INFORMATION
 SHEETS COULD RESULT IN IMPROPER INSTALLATION, APPLICATION, AND/OR 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.

Wiring Diagrams



NS AND NH APPLIANCES SYNCHRONIZED WITH DSM MODULE DUAL CLASS "A" NAC CIRCUIT WITH NO AUDIBLE SILENCE FEATURE



NS AND NH APPLIANCES SYNCHRONIZED WITH SM MODULE SINGLE CLASS "B" NAC CIRCUIT WITH AUDIBLE SILENCE FEATURE

NOTE: NS/NH must be set on Code 3 horn tone to achieve synchronized temporal (Code 3) tone. Refer to installation instruction (P83983, P83600 respectively).

NOTE: For detail using SM or DSM Sync Module refer to data sheet S3000 or installation instructions P83123 for SM and P83177 for DSM.

Architectural/Engineering Specifications

The audible/visual notification appliances shall be Wheelock Series NS Horn Strobe appliances and Series NH Horn appliances or approved equals. The Series NS appliances shall meet and be listed for UL Standard 1971 (Emergency Devices for the Hearing-Impaired for Indoor Fire Protection Service). The Series NH Horn shall be UL Listed under Standard 464 (Fire Protective Signaling). The horn strobe shall be listed for indoor use and shall meet the requirements of FCC Part 15 Class B. All inputs shall be compatible with standard reverse polarity supervision of circuit wiring by the Fire Alarm Control Panel (FACP).

The audible portion of the appliance shall have a minimum of two (2) field selectable settings for dBA levels (90 and 05 dBA) and shall have a choice of continuous or temporal (Code 3) audible outputs.

The strobe portion of the appliance shall produce a flash rate of one (1) flash per second over the Regulated Voltage Range and shall incorporate a Xenon flashtube enclosed in a rugged Lexan iens. The Series NS shall be of low current design. Where wall mount, Multi-Candela appliances are specified, the strobe intensity shall never have field selectable settings and shall be rated per UL Standard 1971 for 15/30/75/110 candela. The selector switch for selecting the candela setting shall be tamper resistant. The 1575 candela strobe shall be specified when 15 candela UL Standard1971 Listing with 75 candela on-axis is required (e.g. ADA compliance). When synchronization is required, the appliance shall be compatible with Wheelock's SM, DSM Sync Modules or a Power Supply with Wheelock's built-in patented Sync Protocol. The strobes shall not drift out of synchronization at any time during operation. If the Sync Module or Power Supply fails to operate (i.e. contacts remain closed), the strobes shall revert to a nonsynchronized flash-rate. The appliance shall also be designed so that the audible signal may be silenced while maintaining strobe activation.

The Series NS Horn Strobes and NH Horn shall incorporate a patented Universal Mounting Plate that shall allow mounting to a single-gang, double-gang, 4 inch square, and 100 mm European backboxes, or the SHBB Surface Backbox. If required, an NATP (Notification Appliance Trimplate) shall be provided.

All notification appliances shall be backward compatible.

Listings and Approvals

These listings and approvals apply to the modules specified in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in progress. Consult factory for listing status.

- ULC Listed: E5946
- ULC Listed: CS 243, CS 356
- CSFM: 7125-0785:142
- MEA: 151-92-E
- FM Approved

	Strobe	Non- Sync		24 VDC	12 VDC	2 Wire	Mounting Options	Agency Approvals				
	Candela							UL	MEA	CSFM	FM	BFP
NS-24MCW-FR	15/30/75/110	х	×	X	-	X	B,D,E,F,G,H,J,N,O,R,X	Х	X	х	X	х
NS-24MCW-FW	15/30/75/110	Х	x	X	-	X	B,D,E,F,G,H,J,N,O,R,X	Х	X	х	X	X
NS-241575W-FR	15 (75 on axis)	X	Х	X		X	B,D,E,F,G,H,J,N,O,R,X	Х	X	×	X	X
NH-12/24-R	12V, 24V	Х	х	Х	Х	x	B,D,E,F,G,H,J,N,O,R,X	Х	х	X	X	X

Ordering Information

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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. Made in the U.S. A.

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