



Yes. Life's good here.



Permitting and Inspections Department

Fire Alarm Permit Application

Construction Address: 550 Forest Ave.	
Total Square Footage of Proposed Structure: 7	100
Tax Assessor's Chart, Block & Lot	Applicant Name: Norris Inc.
Chart# Block# Lot#	Address: 2257 West Broadway South Portland, ME. 04106
	Phone: 207-883-3473
Cost of Work: \$ 5,000	Email: melissap@norrisinc.com
Lessee/Owner Name (if different):	Contractor Name (if different):
SSA Realty c/o Dirigo Management	same
Address: One City Center Portland, ME. 04101	Address:
Phone: 871-1080	Phone:
Email: gary@digiromgmt.com	Email:
Current use (i.e. single family): n/a	
If vacant, what was the previous use? SSA	
Proposed specific use: United Way	
Is property part of a subdivision? If yes, name: No	
Project description: add, remove and relocate device	
Life Safety Code Occupancy Classification: existing	
Is this new work or a renovation to an existing sys	
	than 75 feet above the lowest level of Fire Department
access (high-rise)?	
Name of company providing programming and ce	
Electrical permit #: $EHC - 2020 - 025$	
	No If yes, complete all items for approval):
AES approved installing contractor:	
Documentation of AES approval:	11 A
Property Owner:	
Property Owner Billing Address:	
Property common name:	
E-911 address for protected premises:	
Construction of the second	lditional emergency contact phone:
Number of stories protected:	
Is the building protected by a supervised, automat	
Name of person to contact when the permit is r	eady: Norris Inc Melissa Peter
Address: same as above	
City, State & Zip:	
Email Address: melissap@norrisinc.com	Phone:

*For a list of approved fire alarm companies, see <u>www.portlandmaine.gov/1486/Approved-Fire-Alarm-Companies</u> 389 Congress Street, Room 315/Portland Maine 04101/<u>www.portlandmaine.gov</u>/tel: 207-874-8703/fax: 207-874-8716



PO Box 2551 2257 West Broadway South Portland, ME 04106 *fax* 207-879-0540

1-800-370-3473



Please complete this form and return to Norris Inc.

Building Owner Information Form

Job Name:

Electrical Contractor:

Project #

NFPA requires this information for proper documentation.

The contractor must provide all of the requested information below before ANY equipment can be released.

Electrical Contractor Contact: Estimated Finals Date: Estimated Date Equip. Needed: Building Owner: Job Site Address: City: State: Zip: **Customer Contact:** Phone:



1-800-370-3473 fax 207-879-0540



Thank you for your cooperation.

Please advise the building owners that if this system is equipped with a digital communicator, then they MUST also make monitoring arrangements prior to a certificate of occupancy.

Norris Inc will attempt to contact the building owners.



PO Box 2551 2257 West Broadway South Portland, ME 04106 *fax* 207-879-0540

1-800-370-3473



STOP!

THIS COPY IS FOR YOUR ELECTRICIAN **ON THE JOBSITE**

PLEASE BE SURE THIS COPY IS FORWARDED

- 1.) A riser diagram is enclosed. DO NOT USE THE ENGINEER'S RISER SHOWN ON THE PLANS. If there is any information that you question, call us immediately.
- 2.) YOU MUST CALL AT LEAST FIVE DAYS IN ADVANCE TO SCHEDULE FINAL CONNECTION ASSISTANCE.
- 3.) All wires must be labeled and clear of any grounds, shorts or opens, and must maintain polarity throughout. Meter out all circuits before calling for final connection assistance. If applicable verify End of Line resistors are in place.
- 4.) If using shielded cable, the drain wires must be connected and fully insulated, so that neither the shield or the drain wire touches the backbox.
- 5.) Unless special arrangements are made, we will make one final job site visit. If a special visit is required for an elevator inspection or partial occupancy, then additional charges may if prior arrangements were not made. Call your customer service representative if needed.
- 6.) If you have any defective of left over parts, DO NOT WRITE ON THEM OR THE BOXES. Save the original box, all mounting hardware and instructions. Returns that do not conform to this practice will not be accepted for credit.
- 7.) If the system is being monitored through a digital communicator, please see information on the next page.



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IMPORTANT INFORMATION FOR THE BUILDING OWNERS SPECIAL NOTE REGARDING ALARM MONITORING SERVICES

Included with your alarm system package is a digital communicator, which sends coded messages 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 customer, 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 cost 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.



PO Box 2551 2257 West Broadway South Portland, ME 04106 *fax* 207-879-0540

1-800-370-3473



SUBMITTAL PACKAGE

Project: United Way 550 Forest Ave

System: Fire Alarm

Submitted by: Norris Inc. 2257 West Broadway South Portland, Maine 04106 Telephone: 1-800-370-3473

Submittal Date: 3/11/2020



1-800-370-3473 fax 207-879-0540



Company Profile

"We are extremely proud to represent the highest quality manufacturers integrating life safety, alarm, and communication systems throughout northern New England."

--Bradford Norris, President—

Mission Statement

Provide quality engineered systems, exceptional service.

Goal

Learn...Continually Improve...Exceed Expectations

Founded in 1979, Norris Inc. has grown to become northern New England's leading integrated system contracting and supply company. Norris Inc. is an innovated proactive organization with extensive experience in integration interdisciplinary building management systems. Our local and national affiliations assure that your project will be done properly regardless of size. Representing leading manufacturers, our comprehensive projects provide outstanding quality, reliability, and performance... Surpassing customer application requirements and exceeding the stringent requirements of Underwriters Laboratories, National Fire Protection Association and other codes.

We maintain an exceptional level of quality and provide the highest levels of customer service. Our knowledgeable technical support will insure the great service you deserve. Whether your needs involve industrial, commercial, institutional, or educational applications, you can trust that Norris Inc. has the complete resources it takes to provide the right solution, right away.



1-800-370-3473 fax 207-879-0540



LIMITED WARRANTY

Norris Inc. warrants that the products of its manufacturers shall be free from defects in materials or workmanship as warranted by the manufacturer which is typically for a one (1) year period from the completed installation date, but not always. The completed installation date will be the date when the enduser was able to begin using or started using the product(s) or the system, whether partially or in its entirety. For projects that have a specification or bid instructions to follow which contains specific warranty requirements, Norris Inc. will always honor the warranty terms exactly as specified in the project's specifications or bid documents, which may be more or less in coverage and duration than the manufacturer's warranty. In performing hundreds of projects per year with thousands of different products it is impossible for Norris Inc. to track the terms and details of specified or individual product warranties. Therefore, Norris Inc. will request that the owner's representative provide these special warranty details when the warranty work is requested; otherwise a standard one (1) year warranty on the equipment will be honored. The manufacturer's warranty is for equipment only and does not include any labor and/or shipping costs. All warranties provided by Norris Inc. are limited with the same limitations included with the manufacturer's warranty which is included in the manuals of the products being provided.

The warranty will apply only if such goods have been properly installed, are subject to normal proper use and have not been modified in any manner whatsoever. Upon return of the defective product, Norris Inc. will, at its sole discretion, either repair or replace, at no cost, such goods determined to have a defect in materials or workmanship. In cases of a warranty repair, Norris Inc. will use its sole discretion to determine if a suitable replacement part can be provided on loan while the repairs are being performed.

All warranty work is performed during regular business hours. If emergency warranty work is required, the customer will pay the difference between the emergency service bill and our normal hourly charges.

Norris Inc.'s limited warranty does not apply to those products that are damaged due to misuse, abuse, negligence, exposure to adverse environmental conditions, acts of God, or have been modified in any manner whatsoever.

Norris Inc.'s standard terms and conditions are provided with our invoices. Those Terms and Conditions shall be provided upon request.

NORRIS INC. SHALL NOT UNDER ANY CIRCUMSTANCES BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING FROM LOSS OF LIFE AND/OR PROPERTY OR OTHER DAMAGE OR LOSSES OWING TO THE FAILURE OF NORRIS INC. PRODUCTS BEYOND THE COST OF REPAIR OR REPLACEMENT OF ANY DEFECTIVE PRODUCTS.

NORRIS INC. MAKES NO WARRANTY OF FITNESS OR MERCHANTABILITY AND NO OTHER WARRANTY, ORAL OR WRITTEN, EXPRESS OR IMPLIED AS ALLOWED TO THE FULLEST EXTENT OF THE LAW.



1-800-370-3473 fax 207-879-0540



OUR CONTINUOUS COMMITMENT TO OUR ENVIRONMENT

At Norris Inc, we are proudly committed to continuous environmental improvement for a sustainable future and to develop strong partnerships within our community.

Our mission while running our operations is to do everything within our power to improve the environmental quality of our world and to work together to create a clean and safe place to live in and work in for future generations.

We will incorporate and promote green practices within our operations with policies to support it, a system of rewarding those that fully embrace it and then will regularly review our practices for continuous improvement.

We will establish policies, make investments in technologies and set the example in our own operations to include our ongoing commitment to go paperless and making it a requirement to Reuse, Reduce, & Recycle, to turn off unneeded lights, to not allow our vehicles to idle, to encourage carpooling and to utilize practical energy efficient transportation.

We will always be 100% compliant with all applicable environmental laws and regulations and will report any violations.

We will remain committed to working locally and whenever possible to sell and use locally manufactured products.

We will insist that every purchase we make will include a review of its environmental impact with a very high priority to selecting the greenest products and services available.

We will remain committed to selling low energy products. This includes promoting wireless technologies, using existing wire infrastructure in our installations, promoting solar powered devices, using our Remote Services in lieu of on-site service calls and performing calculations to minimize power supply and battery needs.

We will educate our employees and customers to illustrate that green practices and purchases are almost always less costly in the long run.

We will support and give priority to organizations that show the strongest commitment to the environment.

We will actively encourage and promote the same responsible green practices that we utilize in the work place to our employees for use in their everyday personal lives.



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REMOTE INTERNET CONNECTIONS

As an added service to our customers and in order to facilitate the commissioning of the system(s) being provided within this submittal and then later to provide warranty support Norris Inc. may (at Norris Inc's option) use internet connections to gain access to the system(s) being provided. Many methods can be used, but the most popular is utilizing software named LogMeIn. This software or any other method used to connect to the customer's network will allow Norris Inc's technicians the ability to get onto the programming and diagnostic levels of the system(s) being provided via the building owner's or tenant's data network and program, diagnose or make needed changes to the operation of the system(s). This will provide a better working atmosphere to perform programming from a controlled environment without the disruptions of a construction job-site and allow fast and efficient trouble shooting and/or servicing if problems should occur later. Acceptance of this submittal by those approving it shall constitute an acceptance and approval to perform the work necessary to install and/or enable these network connections if Norris Inc. chooses to do so. It is the sole responsibility of the submittal approvers to advise the building owners and/or tenants that Norris Inc. has the ability to gain access to their network. At the specific request of those approving this submittal or the contractor that Norris Inc. is working for the building owners or tenants that own the network, Norris Inc. can remove or disable the ability to connect to the building's network. However, leaving it in place will allow for quicker and more cost effective service when it is needed. Under absolutely no circumstances shall Norris Inc, its principals, employees, or heirs to be held responsible for any losses incurred as a result of this network connection or the inability for the network connection to operate as expected.





Norris Inc. 2257 West Broadway South Portland, ME 04106

United Way 550 Forest Ave

Date:

3/11/2020 **Project #:** 1703



eviewed for Code Compliance Permitting and Inspections Department App 03/30/2020 ons

Equipment List

<u>Manufacturer</u>	Part Number	Description
NOTIFIER	FSP951IV	ADDRESSABLE SMOKE DETECTOR
NOTIFIER	B3006IV	DETECTOR BASE
WHEELOCK	HSR	HORN STROBE, WALL, RED
WHEELOCK	STR	STROBE, WALL, RED
WHEELOCK	RSSWP2475WFR	STROBE, WEATHER PROOF, WALL, RED
WHEELOCK	WPSBBR	WEATHER PROOF BACK BOX
WINDY CITY	761360	16-02 UNS SOL FPLP RED JKT PLM
WINDY CITY	767960	14-02 UNS SOL FPLP RED JKT

FSP-951 Series

Intelligent Plug-In Photoelectric Smoke Detectors

DN-60977:A



Intelligent/Addressable Devices

General

The NOTIFIER FSP-951 Series intelligent plug-in smoke detectors are designed for both performance and aesthetics. A new modern. sleek, contemporary design and enhanced optical sensing chamber is engineered to sense smoke produced by a wide range of combustion sources in accordance with more stringent code standards. The FSP-951 Series detector sensitivity can be programmed in the control panel software. Sensitivity is continuously monitored and reported to the panel. Point ID capability allows each detector's address to be set with rotary, decimal address switches, providing exact detector location for selective maintenance when chamber contamination reaches an unacceptable level. Dual electronic thermistors add 135°F (57°C) fixed temperature thermal sensing on the FSP-951T. The FSP-951R is a remote test capable detector for use with DNR Series duct detector housings. FSP-951 series detectors are available for both FlashScan® and CLIP applications as designated.

Features

- · New modern profile for improved aesthetics.
- Designed to meet UL268 7th Edition.
- Stable communication technique with noise immunity.
- · Low standby current.
- Two-wire SLC connection.
- · Compatible with FlashScan® and CLIP protocol systems.
- Rotary, decimal addressing (1-99 on CLIP systems, 1-159 on FlashScan systems).
- Optional remote, single-gang LED accessory.
- Dual LED design provides 360° viewing angle.
- Visible bi-color LEDs blink green every time the detector is addressed, and illuminate steady red on alarm (*FlashScan sys*tems only).
- · Remote test feature from the panel.
- Walk test with address display (an address on 121 will blink the detector LED: 12-[pause]-1(FlashScan systems only).
- Built-in functional test switch activated by external magnet.
- Built-in tamper-resistant feature.
- Sealed against back pressure.
- Expanded color options.
- SEMS screws for wiring of the separate base.
- Optional relay, isolator, and sounder bases.

Specifications

Sensitivity:

- UL Applications: 0.5% to 4.0% per foot obscuration.
- ULC Applications: 0.5% to 3.5% per foot obscuration.

Size: 2.0" (5.3 cm) high; base determines diameter.

- B300-6: 6.1" (15.6 cm) diameter.

- B501: 4" (10.2 cm) diameter.

For a complete list of detector bases see DN-60981.

Shipping weight: 3.4oz (96.4g)

Operating Temperature range:

- FSP-951, 0°C to 50°C (32°F to 122°F).
- FSP-951T, 0°C to 38°C (32°F to 100°F).

Permiting and Inspections Department Aprox/2012/2012/0:ms

FSP-951 in B300-6 Base

- FSP-951R installed in a DNR/DNRW, -20°C to 70°C (-4°F to 158°F).

UL/ULC Listed Velocity Range: 0-4000 ft/min. (1219.2 m/min.), suitable for installation in ducts.

Relative Humidity: 10%-93% noncondensing.

Thermal Ratings: Fixed-temperature setpoint 135°F (57°C).

DETECTOR SPACING AND APPLICATIONS

NOTIFIER recommends spacing detectors in compliance with NFPA 72. In low airflow applications with smooth ceiling, space detectors 30 feet (9.1m). For specific information regarding detector spacing, placement, and special applications refer to NFPA 72. *System Smoke Detector Application Guide*, document A05-1003, is available at **systemsensor.com**

ELECTRICAL SPECIFICATIONS

Voltage Range: 15-32 volts DC peak.

Standby Current (max. avg.): 200µA @ 24VDC (one communication every five seconds with LED enabled).

LED Current (max.): 4.5mA @ 24 VDC ("ON").

Installation

FSP-951 series plug-in detectors use a separate base to simplify installation, service, and maintenance.

Mount base (all base types) on an electrical backbox which is at least 1.5" (3.81 cm) deep. For a chart of compatible junction boxes, see *DN-60981*.

NOTE: 1) Because of inherent supervision provided by the SLC loop, end-of-line resistors are not required. Wiring "T-taps" or branches are permitted for Style 4 (Class "B") wiring. 2) When using relay or sounder bases, consult the ISO-X(A) installation sheet I56-1380 for device limitations between isolator modules and isolator bases.



Agency Listings and Approvals

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

- UL/ULC Listed: S911
- FM Approved
- CSFM: 7272-0028:0503

Product Line Information

NOTE:

- Detectors must be mounted to one of the Intelligent Bases listed below.
- "A" suffix indicates ULC Listed model.
- "IV" suffix indicates FlashScan® and CLIP device.

FSP-951: White, low-profile intelligent photoelectric sensor, FlashS-can only.

FSP-951A: Same as FSP-951 but with ULC listing.

FSP-951-IV: Ivory, low-profile intelligent photoelectric sensor.

FSP-951A-IV: Same as FSP-951-IV but with ULC listing.

FSP-951T: White, same as FSP-951 but includes a built-in 135°F (57°C) fixed-temperature thermal device. FlashScan only.

FSP-951TA: Same as FSP-951T but with ULC listing.

FSP-951T-IV: Ivory, same as FSP-951T but includes a built-in 135°F (57°C) fixed-temperature thermal device.

FSP-951TA-IV: Same as FSP-951T-IV but with ULC listing.

FSP-951R: White, low-profile intelligent photoelectric sensor, remote test capable. For use with DNR/DNRW. FlashScan only.

FSP-951RA: Same as FSP-951R but with ULC listing. For use with DNRA.

FSP-951R-IV: Ivory, low-profile intelligent photoelectric sensor, remote test capable. For use with DNR/DNRW.

FSP-951RA-IV: Same as FSP-951R-IV but with ULC listing. For use with DNRA.

INTELLIGENT BASES

NOTE: For details on intelligent bases, see DN-60981

B300-6: White, 6" base, standard flanged low-profile mounting base.

B300-6-IV: Ivory,6" base, standard flanged low-profile mounting base.

B300A-6: Same as B300-6, ULC listed.

B300A-6-IV: Ivory, 6" standard flanged low-profile mounting base, ULC listed.

B300-6-BP: Bulk pack of B300-6, package contains 10

B501-WHITE: White, 4" standard European flangeless mounting base. UL/ULC listed.

B501-BL: Black, 4" standard European flangeless mounting base. UL/ULC listed.

B501-IV: Ivory color, 4" standard European flangeless mounting base. UL/ULC listed.

B501-WHITE-BP: Bulk pack of B501-WHITE contains 10.

B224RB-WH: White, relay base.

B224RB-IV: Ivory, relay base.

B224RBA-WH: White, relay base, ULC listing.

B224RBA-IV: Ivory, relay base, ULC listing.

B224BI-WH: White, isolator detector base.

B224BI-IV: Ivory isolator detector base.

B224BIA-WH: White, isolator detector base, ULC listing.

B224BIA-IV: Ivory *isolator* detector base, ULC listing.

B200S-WH: White, Intelligent addressable sounder base capable of producing sound output in high or low volume with ANSI Temporal 3, ANSI Temporal 4, continuous tone, marching tone, and custom tone. Uses FlashScan protocol.

B200S-IV: Ivory, Intelligent addressable sounder base capable of producing sound output in high or low volume with ANSI Temporal 3, ANSI Temporal 4, continuous tone, marching tone, and custom tone. Uses FlashScan protocol.

B200SA-WH: Same as B200S-WH, ULC listing.

B200SA-IV: Same as B200S-IV, ULC listing.

B200SCOA-WH: White, Intelligent, programmable sounder base in English/French (required in Canada for ULC applications with SO Series detector applications.

B200SCOA-IV: Ivory Intelligent, programmable sounder base in English/French (required in Canada for ULC applications with SO Series detector applications, ULC listing.

B200S-LF-WH: White, Low Frequency Intelligent, programmable sounder base. Produces a fundamental frequency of 520 Hz +/-10% with a square wave or its equivalent; designed to meet the NFPA 72 sleeping space requirement.

B200S-LF-IV: Ivory, Low Frequency Intelligent, programmable sounder base. Produces a fundamental frequency of 520 Hz +/-10% with a square wave or its equivalent; designed to meet the NFPA 72 sleeping space requirement.

B200SR-WH: White, Intelligent sounder base capable of producing sound output with ANSI Temporal 3 or continuous tone. Intended for retrofit applications.

B200SR-IV: Ivory, Intelligent sounder base capable of producing sound output with ANSI Temporal 3 or continuous tone. Intended for retrofit applications.

B200SRA-WH: Same as B200SR-WH with, ULC listing.

B200SRA-IV: Same as B200SR-IV in Ivory color, ULC listing.

B200SR-LF-WH: White, Low Frequency Intelligent, programmable sounder base. Produces a fundamental frequency of 520 Hz +/-10% with a square wave or its equivalent; designed to meet the NFPA 72 sleeping space requirement. Intended for retrofit applications.

B200SR-LF-IV: Ivory, Low Frequency Intelligent, programmable sounder base. Produces a fundamental frequency of 520 Hz +/-10% with a square wave or its equivalent; designed to meet the NFPA 72 sleeping space requirement. Intended for retrofit applications.

MOUNTING KITS AND ACCESSORIES

TR300: White, replacement flange for B210LP(A) base.

TR300-IV: Ivory, replacement flange for B210LP(A) base.

RA100Z(A): Remote LED annunciator. 3 - 32 VDC. Mounts to a U.S. single-gang electrical box. For use with B501(A) and B300(A)-6.

M02-04-00: Test magnet.

M02-09-00: Test magnet with telescoping handle.



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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: (800) 627-3473, FAX: (203) 484-7118. www.notifier.com



ISO 9001

Effective November 2016 Supersedes October 2014 HN Series HS Series ST Series

> ermitting and Inspections Department Aping/3/301/2020

Exceder Strobe, Horn Strobe, and Horn Notification Appliances



Description

The Wheelock Exceder Series of notification appliances feature a sleek modern design that will please building owners with reduced total cost of ownership. Installers will benefit from its comprehensive feature list, including the most candela options in one appliance, low current draw, no tools needed for setting changes, voltage test points, 12/24 VDC operation, universal mounting base and multiple mounting options for both new and retrofit construction.

The Wheelock Exceder Series incorporates high reliability and high efficiency optics to minimize current draw allowing for a greater number of appliances on the notification appliance circuit. All strobe models feature an industry first of 8 candela settings on a single appliance. Models with an audible feature 3 sound settings (90, 95, 99 dB). All switches to change settings, can be set without the use of a tool and are located behind the appliance to prevent tampering. Wall models feature voltage test points to take readings with a voltage meter for troubleshooting and AHJ inspection.

The Wheelock Exceder Series of wall and ceiling notification appliances feature a Universal Mounting Base (UMB) designed to simplify the installation and testing of horns, strobes, and combination horn strobes. The separate universal mounting base can be pre-wired to allow full testing of circuit wiring before the appliance is installed and the surface is finished. It comes complete with a Contact Cover for protection against dirt, dust, paint and damage to the contacts. The Contact Cover also acts as a shunting device to allow pre-wire testing for common wiring issues. The Contact Cover is polarized to prevent it from being installed incorrectly and prevents the appliance from being installed while it is on the UMB. When the Contact Cover is removed the circuit will show an open until the appliance is installed. The UMB allows for consistent installation and easy replacement of appliances if required. Wall models provide an optional locking screw for extra secure installation, while the ceiling models provide a captivated screw to prevent the screw from falling during installation.



Technical Data TD450049EN

Effective November 2016

Features

- Sleek modern aesthetics
- Finger slide switches
- Voltage test points
- Multiple voltages
- 3 Audible settings
- 90, 95, 99 dB
- Industry leading—8 candela settings on 1 device
 - Wall: 15/1575/30/75/95/110/135/185
 - Ceiling: 15/30/60/75/95/115/150/177



- Universal mouting base
 - Ceiling and wall
 - Mounts to 5 backbox types: 1 gang, 2 gang, 4" square, 3.5" octal. & 4" octal. (100mm for international customers)

Universal mounting base

Contact cover





Common base for wall and ceiling with 5 mounting options

Voltage test points for quick troubleshooting and easy spot checking (wall models only)





- Low current draw
- Up to 9 models now in 1 appliance draw¹
- 12/24VDC on a single appliance
- Easy to remember model numbers

Patented

Note: Please read these specifications and associated installation instructions, before using, specifying, or installing this product. Visit Eaton.com/ massnotification for current installation instructions.

General Notes

- Strobes are designed to flash at 1 flash per second minimum over their "Regulated Voltage Range".
- All candela ratings represent minimum effective strobe intensity based on UL Standard 1971.
- Series Exceder Strobe products are Listed under UL Standards 1971 and 464 for indoor use with a temperature range of 32°F to 120°F (0°C to 49°C) and maximum humidity of 93% (± 2%) UL 464 (85% UL 1971).
- Series Exceder horns are under UL Standard 464 for audible signal appliances (Indoor use only).

Compatibility and requirements

- Synchronize using the Wheelock[®] Sync Modules or panels with built-in Wheelock[®] Patented Sync Protocol
- Compatible with UL "Regulated Voltage" using filtered VDC or unfiltered VRMS input voltage
- Strobes produce 1 flash per second over the "Regulated Voltage" range

Compliance

- UL 1971, UL 464, ULC, CSFM, FM
- ADA/NFPA/ANSI/OSHA
- RoHS



HN Series HS Series

ST Series

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Effective November 2016

Table 1. Strobe Ratings per UL Standard 1971

		UL Ma	ax Currer	nt ⁽¹⁾											
		24 VD	C / 24 FV	VR										12 VD	C
Model	Regulated Voltage Range VDC	15	15/75	30	60	75	95	110	115	135	150	177	185	15	15/75
ST	8.0-33.0	0.057	0.070	0.085	_	0.135	0.163	0.182	_	0.205	_	_	0.253	0.110	0.140
STC	8.0-33.0	0.061	_	0.085	0.103	0.135	0.163	_	0.182	_	0.205	0.253		0.110	_

Table 2. Horn Strobe Ratings per UL 1971 & Anechoic at 24 VDC

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		UL Ma	ax Currer	nt ⁽¹⁾ at A	nechoic	99 dBA									
		24 VD	C											12 VD	C
Model	Regulated Voltage Range VDC	15	15/75	30	60	75	95	110	115	135	150	177	185	15	15/75
HS	8.0-33.0	0.082	0.095	0.102	—	0.148	0.176	0.197	—	0.242	—		0.282	0.125	0.159
HSC	8.0-33.0	0.082	_	0.102	0.141	0.148	0.176	_	0.197	_	0.242	0.282	_	0.125	_

		UL IVIA	x Curren	t⊎at A	nechoic	95 dBA									
		24 VDC										12 VDC			
Model	Regulated Voltage Range VDC	15	15/75	30	60	75	95	110	115	135	150	177	185	15	15/75
HS	8.0-33.0	0.073	0.083	0.087	_	0.139	0.163	0.186	_	0.230	_	_	0.282	0.122	0.153
HSC	8.0-33.0	0.073		0.087	0.128	0.139	0.163	_	0.186	_	0.230	0.272		0.122	

UL Max Current 0 at Anechoic 90 dBA

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		24 VD	24 VDC									12 VD	12 VDC		
Model	Regulated Voltage Range VDC	15	15/75	30	60	75	95	110	115	135	150	177	185	15	15/75
HS	8.0-33.0	0.065	0.075	0.084	_	0.136	0.157	0.184	_	0.226	_	_	0.267	0.120	0.148
HSC	8.0-33.0	0.065		0.084	0.120	0.136	0.157		0.184	_	0.226	0.267	_	0.120	—

① UL max current rating is the maximum RMS current within the listed voltage range (16-33 VDC for 24 VDC units). For strobes the UL max current is usually at the minimum listed voltage (16 VDC for 24 VDC units). For unfiltered ratings, see installation instructions.

Table 3. Horn Ratings per UL Anechoic

Model	Regulated Voltage Range VDC	99 dB	95 dB	90 dB
HN	16-33.0	0.064	0.044	0.022
HNC	16-33.0	0.084	0.044	0.022
HN	8.0-17.5	0.047	0.026	0.017
HNC	8.0-17.5	0.047	0.026	0.017

Table 4. Specification & Ordering Information

Model	Strobe Candela	Sync w/ DSM or Wheelock Power Supplies	12/24 VDC①	Mounting Options
Horn St	robes			
HSR	15/1575/30/75/95/110/135/185	Х	Х	UMB ⁽²⁾
HSW	15/1575/30/75/95/110/135/185	Х	Х	UMB ⁽²⁾
HSRC	15/30/60/75/95/115/150/177	Х	Х	UMB ²
HSWC	15/30/60/75/95/115/150/177	Х	Х	UMB ²
Strobes	5			
STR	15/1575/30/75/95/110/135/185	Х	Х	UMB ⁽²⁾
STW	15/1575/30/75/95/110/135/185	Х	Х	UMB ⁽²⁾
STRC	15/30/60/75/95/115/150/177	Х	Х	UMB ²
STWC	15/30/60/75/95/115/150/177	Х	Х	UMB ²
Horn				
HNR		Х	Х	UMB ²
HNW		Х	Х	UMB ⁽²⁾
HNRC		Х	Х	UMB ⁽²⁾
HNWC		Х	Х	UMB ⁽²⁾

Model Legend

ΗN	=	Horn	R	=	Red
ST	=	Strobe	А	=	Agent Lettering (strobes only)
HS	=	Horn Strobe	AL	=	Alert Lettering (strobes only)
С	=	Ceiling Mount	Ν	=	No Lettering (strobes only)
W	=	White			

Example 1: STRC = Strobe, Red, Ceiling Mount Example 2: HSR = Horn Strobe, Red, Wall Mount Example 3: HSW = Horn Strobe, White, Wall Mount Example 4: STW-AL = Strobe, White, Wall Mount, Alert Lettering



Example: HSR



Example: HSWC

1 12 VDC models feature 15 & 15/75 settings

② UMB = Universal Mounting Base



Architects and Engineers Specifications

The notification appliances shall be Wheelock Exceder Series HS Audible Strobe appliances, Series ST Visual Strobe appliances and Series HN Audible appliances or approved equals. The Series HS and ST Strobes shall be listed for UL Standard 1971 (Emergency Devices for the Hearing-Impaired) for Indoor Fire Protection Service. The Series HS and HN Audibles shall be UL Listed under Standard 464 (Fire Protective Signaling). All Series shall meet the requirements of FCC Part 15 Class B. All inputs shall be compatible with standard reverse polarity supervision of circuit wiring by a Fire Alarm Control Panel (FACP) with the ability to operate from 8 to 33 VDC. Indoor wall models shall incorporate voltage test points for easy voltage inspection.

The Series HS Audible Strobe and ST 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. The Series shall be of low current design. Where multicandela appliances are specified, the strobe intensity shall have 8 field selectable settings at 15, 15/75, 30, 75, 95, 110, 135, 185 candela for wall mount and 15, 30, 60, 75, 95, 115, 150, 177 candela for ceiling mount. The selector switch for selecting the candela shall be tamper resistant. The 15/75 candela strobe shall be specified when 15 candela UL Standard 1971 Listing with 75 candela on-axis is required (e.g., ADA compliance). Appliances with candela settings shall show the candela selection in a visible location at all times when installed.

The audible shall have a minimum of three (3) field selectable settings for dBA levels and shall have a choice of continuous or temporal (Code 3) audible outputs.

The Series HS Audible Strobe, ST Strobe and Series HN Audible shall incorporate a patented Universal Mounting Base that shall allow mounting to a single-gang, double-gang, 4-inch square, 3.5-inch octal, 4-inch octal or 100mm European type back boxes. Two wire appliance wiring shall be capable of directly connecting to the mounting base. Continuity checking of the entire NAC circuit prior to attaching any notification appliances shall be allowed. Product shall come with Contact Cover to protect contact springs. Removal of an appliance shall result in a supervision fault condition by the Fire Alarm Control Panel (FACP). The mounting base shall be the same base among all horn, strobe, horn strobe, wall and ceiling models. All notification appliances shall be backwards compatible.

The Series HS and ST wall models shall have a low profile measuring 5.24" H x 4.58" W x 2.19" D. Series HN wall shall measure 5.24" H x 4.58" W x 1.6" D. The Series HSC and STC shall been round and have a low profile with a diameter of 6.68" x 2.63" D. Series HNC ceiling shall have a diameter of 6.68" x 1.50" D.

When synchronization is required, the appliance shall be compatible with Wheelock's DSM Sync Modules, Wheelock Power Supplies or other manufacturer's panels with built-in Wheelock Patented Sync Protocol. The strobes shall not drift out of synchronization at any time during operation. If the sync protocol fails to operate, the strobe shall revert to a non-synchronized flash-rate and still maintain (1) flash per second over its Regulated Voltage Range. The appliance shall also be designed so that the audible signal may be silenced while maintaining strobe activation when used with Wheelock synchronization protocol.

Wall Appliances: UL Standard 1971, UL Standard 464, California State Fire Marshal (CSFM), ULC, FM, RoHS

Ceiling Appliances: UL Standard 1971, UL Standard 464, California State Fire Marshal (CSFM), ULC, FM, RoHS

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



WE ENCOURAGE AND SUPPORT NICET CERTIFICATION 3 YEAR WARRANTY

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Weatherproof Appliances - Series AH Audibles, AS Audible Strobes, MT Multitone Strobes, RSS Strobes and ET70 Speaker Strobes and Weatherproof Mounting Accessories



Description:

Designed for life safety, performance and reliability, Cooper Notification's Wheelock cost effective weatherpoof notification appliances include:

Weatherproof Appliances	Series
Strobes	RSSWP
Horn Strobes	ASWP
Horns	AH-24WP, AH-12WP
Multitone Horn Strobes	MTWP
Multitone Horns	MT
Speaker Strobes	ET70WP
Speakers	ET-1010

All strobe models are UL dual listed - meeting both UL1638 and UL1971 requirements. As dual listed appliances, these weatherproof strobes, horn strobes and speaker strobes are listed for outdoor applications under UL 1638 as well as under UL 1971, the Standard for Safety Signaling Devices for Hearing Impaired. With an extended temperature range of -31° F to 150° F (- 35° C to 66° C), Wheelock weatherproof appliances meet or exceed UL outdoor test requirements for rain, humidity and corrosion resistance while providing multiple strobe intensity options, including the highest strobe ratings available for area coverage per NFPA 72 strobe spacing tables (up to 185 candela for wall mounting and 177 candela for ceiling mounting).

To enable weatherproof mounting, Cooper Notification provides the industry's widest choice of mounting options for surface or unique semi-flush installation. Models are available for surface mounting to Wheelock weatherproof backboxes on walls or ceilings. The optional WP-KIT allows the weatherproof backboxes (IOB, WPBB or WPSBB) to be mounted to a recessed electrical box for concealed conduit installation. For semi-flush installation, the WPA* and WFPA* kits allow a customer to mount the weatherproof appliances to a recessed electrical box without the need for an external weatherproof backbox. See the Backboxes, Plates and Gaskets Table on page three of this document for a summarization of these mounting options and the required accessories. All models may be synchronized using the Wheelock DSM Sync Modules, Wheelock Power Supplies or other manufacturers panels incorporating the Wheelock Patented Sync Protocol. The horn output of horn strobes can be independently controlled on 2-wire circuits using the Wheelock patented sync protocol. MTWP horn strobe models are 4-wire appliances; the strobes can be synchronized while the audible can be connected to a coded fire alarm system or can be set to produce any of eight selectable tones.

Features:

- Approvals include: UL Standards 1971, 1638, 464 and 1480 California State Fire Marshal (CSFM), New York City (MEA), Factory Mutual (FM), Chicago (BFP) and ULC. See agency approvals by model number on page two of this document
- Compliance with the following requirements: NFPA, UFC, ANSI 117.1, OSHA Part 29, 1910.165, ADA
- Weatherproof with extended temperature range of -40°F to 150°F (-40°C to 66°C)*
- Dual Listed strobe models (UL 1638 and UL 1971)
- Industry's highest strobe candela options
- Synchronize using the Wheelock Sync Modules or panels with built-in Wheelock Patented Sync Protocol
- Models with field selectable tone, dBA and candela settings
- Wall or ceiling mounting options
- Surface of semi-flush mounting
- IN/OUT wiring termination accepting two #12-18 AWG wires at each terminal

The series RSSWP, ASWP, AH-24WP, MTWP-2475W, and MT-12/24 have UL / ULC approval down to -40°F. The ET-1010 and ET70WP have UL approval down to -40°F. The AH-12WP has UL approval down to -31°F.



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

A WARNING: PLEASE READ THESE SPECIFICATIONS AND ASSOCIATED INSTALLATION INSTRUCTIONS CAREFULLY BEFORE USING, SPECIFYING OR APPLYING THIS PRODUCT. VISIT WWW.COOPERNOTIFICATION.COM OR CONTACT COOPER WHEELOCK FOR THE CURRENT INSTALLATION INSTRUCTIONS. 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 their UL Listed Regulated Voltage Range.

Ceiling Mount

All candela ratings represent minimum effective Strobe intensity based on UL Standards 1971 and 1638 as indicated in candela ratings table. Reviewed for Code Compliance Permitting and Inspections

Wall Mount



ET70WP

Strobe RSSWP-2475W-FR RSSWP-2475W-FW RSSWP-24MCWH-FR RSSWP-24MCWH-FW	Red White Red White	Order Code 9013 3034 5161 5165
Audible Strobe ASWP-2475W-FR ASWP-24MCWH-FR ASWP-24MCWH-FW	Red Red White	9012 5137 5140
Multi-tone Strobe MTWP-2475W-FR MTWP-2475W-FW MTWP-24MCWH-FR MTWP-24MCWH-FW	Red White Red White	8420 3112 5132 5134
Speaker Strobe ET70WP-2475W-FR ET70WP-2475W-FW ET70WP-24185W-FR ET70WP-24185W-FW ET70WP-24135W-FR ET70WP-24135W-FW	Red White Red White Red White	9077 3179 4885 4891 4872 4875

FIRE FIRE RSSWP MTWP FIRE ASWP ET70WP

Strobe RSSWP-2475C-FR RSSWP-2475C-FW RSSWP-24MCCH-FR RSSWP-24MCCH-FW		Order Code 4338 4446 5167 5187
Audible Strobe ASWP-2475C-FR ASWP-2475C-FW ASWP-24MCCH-FR ASWP-24MCCH-FW	Red White Red White	4251 4502 5149 5157
Multi-tone Strobe MTWP-2475C-FR MTWP-2475C-FW MTWP-24MCCH-FR MTWP-24MCCH-FW	Red White Red White	4457 4478 5102 5122
Speaker Strobe ET70WP-2475C-FR ET70WP-2475C-FW ET70WP-24177C-FR ET70WP-24177C-FW ET70WP-24115C-FR ET70WP-24115C-FW	Red White Red White Red White	4452 4454 4845 4859 4550 4732
Datinga		

				Candela Ratings					
Series	UL 1971	UL 1638	UL 1638	UL 1638 RSS, ET70WP and MTWP UL Max Current		ASWP			
Selles	02 1971	@ 77°F	@ -40°F	(Strobe Only)	High	Med	Low		
2475W	30**	180	115	0.138	0.168	0.155	0.150		
2475C	15	180	115	0.138	0.168	0.155	0.150		
мсwн	135	135	56	0.300	0.355	0.340	0.335		
NICVIT	185	185	77	0.420	0.480	0.465	0.460		
мссн	115	115	47	0.300	0.355	0.340	0.335		
NICCH	177	177	73	0.420	0.480	0.465	0.460		
24185	185	185	77	0.420	**Wall m	nount ratin	g only		
24177	177	177	73	0.420					

UL Max. Current (Audible)	MTWP/MT 24 VDC			IT /DC
dBA	HI	STD	HI	STD
Horn	0.108	0.044	0.177	0.034
Bell	0.053	0.024	0.095	0.020
March Time	0.104	0.038	0.142	0.034
Code 3 Horn	0.091	0.035	0.142	0.034
Code 3 Tone	0.075	0.035	0.105	0.021
Slow Whoop	0.098	0.037	0.142	0.035
Siren	0.104	0.036	0.152	0.030
Hi/Lo	0.057	0.025	0.114	0.026

Wall or Ceiling Mount



FT-1010

Audible AH-24WP-R AH-12WP-R	O Red Red	rder Code 7416 7415
Horn MT-12/24-R	Red	5023
Speaker ET-1010-R ET-1010-W	Red White	3135 3137

UL Max. Current	A	H
	24 VDC	12 VDC
High (99) dBA	0.080	0.192
Med (95) dBA	0.043	0.108
Low (90) dBA	0.021	0.058

UL Revert	erant	dBA	@ 10	Fee	t		
Watts	1/8	1/4	1/2	1	2	4	8
ET-1010	77	80	83	86	87	92	94
ET70WP	78	81	84	87	90	93	95

Model Number	Agency Approvals					
Strobe	UL	MEA	CSFM	FM	BFP	
RSSWP-2475	Х	Х	Х	Х	-	
RSSWP-24MCWH	Х	-	Х	-	-	
RSSWP-24MCCH	Х	-	Х	-	-	
Audible Strobe						
ASWP-2475	Х	Х	Х	Х	Х	
ASWP-MCWH	Х	-	Х	-	-	
ASWP-MCCH	Х	-	Х	-	-	
Multitone Strobe						
MTWP-2475	Х	Х	Х	Х	-	
MTWP-MCWH	Х	-	Х	-	-	
MTWP-MCCH	Х	-	Х	-	-	
Horns/Audibles						
AH-24WP	Х	Х	Х	Х	Х	
AH-12WP	Х	Х	Х	Х	Х	
MT-12/24	Х	Х	Х	Х	Х	
Speaker Strobe						
ET70WP-2475	Х	-	Х	Х	-	
ET70WP-185	Х	-	Х	Х	-	
ET70WP-177	Х	-	Х	Х	-	
ET70WP-115	Х	-	Х	Х	-	
ET70WP-135	Х	-	Х	Х	-	



Api03/30/2020ons

Mounting Accessories

WFP



WBB



Gasket Kit WP-KIT	C	rder Code 4486	Mounting Ontiono					
Flush Plates			Mounting Options:	Backboxes	s, Plates, Gasket Kits	5		
WFPA-R	Red	4698		Surface	e Mount	Flush		
WFPA-W WFP-R	White Red	4701 4696		Exposed Conduit	Concealed Conduit	Mount		
WFP-W	White	4697	RSSWP Strobes	WPSBB	WPSBB + WP-KIT	WFP		
Backboxes			ET70WP Speaker Strobes	IOB	IOB + WP-KIT	WFP		
IOB-R* IOB-W*	Red White	5046 5047	ASWP Horn Strobes	WPBB	WPBB + WP-KIT	WFPA		
WPSBB-R*	Red	9751	AHWP Horns	WBB	-	WFP		
WPSBB-W* WPBB-R*	White Red	3033 9014	ET-1010 Speakers	WBB	-	WFP		
WPBB-W*	White	4692	MTWP Multitone Horn Strobes	IOB	IOB + WP-KIT	WFP		
WBB-R WBB-W	Red White	2959 2960	Multitone Horn	IOB	IOB + WP-KIT	WFP		
VVDD-VV	vvnite	2900	*IOD MOCDD and MODD mode		a and plug in the over	at that		

*IOB, WPSBB and WPBB models include weep holes and plug in the event that moisture may have entered the appliance



Note: Models are available in Red or White. Contact Customer Service for Order Code and Delivery. #Refer to Data Sheet S7000 for Mounting Options

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

ARCHITECTS AND ENGINEERS SPECIFICATIONS

General

Weatherproof notification appliances shall be UL listed for outdoor use. Weatherproof Strobe appliances shall be listed under UL Standard 1638 (Standard for Visual Signaling Appliances) for Indoor/Outdoor use and UL Standard 1971 (Standard for Safety Signaling Devices for Hearing Impaired). The appliances shall be available for optional wall mounting or ceiling mounting to weatherproof backboxes using either exposed conduit or concealed conduit, or semi-flush mounting to a recessed electrical box in walls or ceilings using Wheelock mounting accessories.

Weatherproof Strobes

Weatherproof Strobe appliances shall produce a minimum flash rate of 60 flashes per minute over the UL Regulated Voltage Range of 16 to 33 VDC and shall incorporate a Xenon flashtube. The weatherproof strobes shall be available with UL 1971 candela ratings up to 185 cd for wall mounting and 177 cd for ceiling mounting. UL 1638 candela ratings up to 180 cd at 77°F shall be available. The strobes shall operate over an extended temperature range of –40°F to 150°F (-40°C to 66°C) and be listed for maximum humidity of 95% RH. Strobe inputs shall be polarized for compatibility with standard reverse polarity supervision of circuit wiring by a Fire Alarm Control Panel (FACP).

Weatherproof Audibles and Audible/Strobe Combinations Weatherproof horns and multitone audibles shall be listed for Indoor/Outdoor use under UL Standard 464. The horns shall be able to produce a continuous output or a temporal code-3 output that can be synchronized. The horns shall have at least 3 sound level settings. Horn/Strobe combinations shall be able to be synchronized on a single NAC.

Multitone audibles shall be able to produce 8 distinct tones selectable by dip switch and shall have at least 2 sound level settings. Multitone Audible/Strobe combinations shall have independent inputs for the audible and strobe. The strobes shall be able to be synchronized. The audibles shall be able to be coded when operated on a separate NAC.

Weatherproof Speakers and Speaker/Strobes

Weatherproof speakers and speaker/strobes shall be listed for Indoor/Outdoor use under UL Standard 1480. All speakers shall provide field selectable taps for 1/8W to 8W operation for either 25 VRMS or 70 VRMS audio systems and shall incorporate a sealed back construction for extra protection and improved audibility. Speakers without strobes shall be Wheelock Series ET-1010. They shall be listed to produce up to 94 dBA and shall incorporate a vandal resistant grille design. Speaker with strobes shall be Wheelock Series ET70WP. They shall be available for surface or semi-flush mounting to walls or ceilings and shall be listed to produce up to 93 dBA.

Synchronization Modules

When synchronization of strobes or temporal code-3 audibles is required, the appliances shall be compatible with the Wheelock Series DSM Sync Modules, Wheelock Power Supplies or other manufacturers panels with built-in Wheelock Patented Sync Protocol. The strobes and audibles shall not drift out of synchronization at any time during operation.

Series ASWP audibles and strobes shall be able to be synchronized on a 2-wire circuit with the ability to silence the audible if required. The strobes on Series MT multitone audible/strobe appliances shall be able to be synchronized and shall be able to be operated on a separate circuit from the audibles while the audible circuit is connected to a coded or continuous NAC.

Weatherproof Mounting Accessories

Weatherproof mounting options shall include surface mounting or semi-flush mounting to walls or ceilings. Surface mounted appliances shall mount to Wheelock IOB, WBB, WPBB or WPSBB weatherproof backboxes using either exposed conduit or concealed conduit. For concealed conduit the weatherproof backbox shall be mounted to a recessed electrical box with Wheelock's WP-KIT to provide a weatherproof seal for the electrical box. Semi-flush mounted appliances shall mount to a recessed electrical box using Wheelock WFP or WFPA flush plates to provide a weatherproof seal between the electrical box and the appliance.



WE ENCOURAGE AND SUPPORT NICET CERTIFICATION 3 YEAR WARRANTY

S9004 WP 11/12



Reviewed for Code Compliance Permitting and Inspections Department Ap0(3)(30/20)20ons







PART NUMBER 761360

UL Listed and Rated Type FPLP Multi-Conductor Non-Shielded Plenum Fire Alarm

	SMARTWIRE
■ 0275/0725 FT ● FIRE/LIFE SAF	ETY CONTROL CABLE INIT/IND DEVICE/ZONE ABCDE0123456789
CABLE SPECIFICATIONS	
DESCRIPTION	16 AWG 2 Conductor Bare Copper, Twisted, Non-Shielded Plenum Fire Alarm, FPLP (UL)
CONDUCTOR	16 (Solid Bare Copper)
INSULATION	Low-Smoke PVC .010"
COLOR CODE	Black/Red
LAY LENGTH	3.5" LHL (approx. 3.4 TPF)
SHIELD	N/A
DRAIN WIRE	N/A
JACKET	Low-Smoke PVC .018"
JACKET COLOR	Red Jacket
MARKING	FIRE/LIFE SAFETY CONTROL CABLE INIT. / IND. DEVICE / ZONE A B C D E 0 1 2 3 4 5 6 7 8 9 16 AWG FPLP (UL) ROHS MADE IN THE USA
OVERALL DIAMETER	.178" Nom
CABLE WEIGHT	26 Lbs/Mft.
CAPACITANCE	26 pF/Ft. Nom.
IMPEDANCE	72 Ohms
DC RESISTANCE	4.10 Ohms/Mft @ 20 deg. C
TEMPERATURE RATING	0 C to 75 C / 300 Volt
INDUSTRY STANDARDS	
FLAME RATING	Approved For Plenum Use Without Conduit Per NFPA 262 Flame Test
AGENCY APPROVALS	NEC Article 760; FPLP (UL), RoHS Compliant, Made in the USA
	MAREN IN
	All specifications referenced are nominal measurements unless otherwise noted.



PART NUMBER 767960

UL Listed and Rated Type FPLP Multi-Conductor Non-Shielded Plenum Fire Alarm

■ 0275/0725 FT ● FIRE/LIFE SAF	ETY CONTROL CABLE INIT/IND DEVICE/ZONE ABCDE0123456789
CABLE SPECIFICATIONS	
DESCRIPTION	14 AWG 2 Conductor Bare Copper, Twisted, Non-Shielded Plenum Fire Alarm, FPLP (UL)
CONDUCTOR	14 (Solid Bare Copper)
INSULATION	Low-Smoke PVC .010"
COLOR CODE	Black/Red
LAY LENGTH	3.75" LHL (3.2 TPF)
SHIELD	N/A
DRAIN WIRE	N/A
JACKET	Low-Smoke PVC .018"
JACKET COLOR	Red Jacket
MARKING	FIRE/LIFE SAFETY CONTROL CABLE INIT. / IND. DEVICE / ZONE A B C D E 0 1 2 3 4 5 6 7 8 9 14 AWG FPLP (UL) ROHS MADE IN THE USA
OVERALL DIAMETER	.206" Nom
CABLE WEIGHT	36 Lbs/Mft.
CAPACITANCE	26 pF/Ft. Nom.
IMPEDANCE	72 Ohms
DC RESISTANCE	2.57 Ohms/Mft @ 20 deg. C
TEMPERATURE RATING	0 C to 75 C / 300 Volt
INDUSTRY STANDARDS	
FLAME RATING	Approved For Plenum Use Without Conduit Per NFPA 262 Flame Test
AGENCY APPROVALS	NEC Article 760; FPLP (UL), RoHS Compliant, Made in the USA
	MADE IN
	Reviewed for Code Compliance Permitting and inspections
	All specifications referenced are nominal measurements unless otherwise noted.

NOTIFIER	
by Honeywell	

System Power Requirements

FCPS-24s8 Power Supply

	mises: United Way Renovation	n	Date: 3/11/2020	
			Date. <u>3/11/2020</u>	
Address: City:	550 Forest Ave Portland	State: <u>ME</u>	Zip: 04103	
Prepared By:	Norris Inc		Phone: 207-883-3473	3
Address:	2257 Broadway	Em	ail:	
City:	South Portland	State: ME	Zip: 04106	
			·	
	Current Requirements d by source to power the fire ala	3.20 AMPS @ 120) VAC	
Primary Star Current load on non-alarm cond	the primary power supply during	0.09 Amps		
Primary Alar Current load on alarm condition	the primary power supply during	3.39 Amps		
Secondary L	.oad Requirements	2.21 Amp Hours		
Total Secondar	y Load from the calculation table			
Total Secondar	y Load from the calculation table	e below.	(bours) Total (AH	
	y Load from the calculation table Current Draw	e below. Time	(hours) Total (AH)
	y Load from the calculation table Current Draw condary Standby Load	e below. Time Required S	tandby Time)
Sec	y Load from the calculation table Current Draw condary Standby Load 0.065 A	e below. Time x Required S 24 I Required Alar	tandby Time 1.56)
Sec	y Load from the calculation table Current Draw condary Standby Load	e below. X Required S 24 I X Required Alar X	tandby Time)
Sec	y Load from the calculation table Current Draw condary Standby Load 0.065 A econdary Alarm Load	e below. X Required S 24 X Required Alar X Required Alar 0.084	tandby Time hours 1.56 m Time (hours) hours 0.29	
Sec	y Load from the calculation table Current Draw condary Standby Load 0.065 A econdary Alarm Load	e below. X Required S 24 X Required Alar X Required Alar 0.084	tandby Time hours 1.56 m Time (hours) hours 0.29	
Sec	y Load from the calculation table Current Draw condary Standby Load 0.065 A econdary Alarm Load	e below. X Required S 24 X Required Alar X Required Alar 0.084	tandby Time hours 1.56 m Time (hours) hours 0.29 Secondary Load 1.85 Derating factor x 1.2	

Battery Distribution Chart

Shows amp-hour distribution of your selections.



Comments

- 1. Batteries will fit in the FACP cabinet.
- 2. Selected battery size meets secondary load requirements.
- 3. The selected batteries (7AH) are within the charger range of this power supply (7-18AH).

Spare Battery Capacity	4.79	Battery Selection (AH) - Secondary Load Requirements (AH)
Secondary Standby Load	1.87	Secondary Standby Load (AH) * Derating Factor
Secondary Alarm Load	0.34	Secondary Alarm Load (AH) * Derating Factor





Reviewed for Code Compliance Permitting and Inspections Department Approved with Conditions

03/30/2020









	SYMBOL LEGEND	
B 15 B	DEVICES SMOKE DETECTOR	NOTIFICATION HS HORN STROBE
VERIFY AND NOTE DEVICE LOCATION	ADDRESS AS AVAILABLE	STROBE XX = CANDELA RATING WP = WEATHERPROOF
	WIRE	LEGEND
	2 COND 16 AWG TWISTE	D PAIR FPLP CABLE
$\overline{\mathbf{C}}$	B 2 COND 14 AWG FPLP CA	ABLE
B (B) (B) (B) (B) (B) (B) (B) (B	DEVICE ADDRESSES: EACH DEVICE MUST BE LABELED WITH THE NODE, LOOP AND SLC ADDRESS. DEVICE EXAMPLE: N1L1D001 MODULE EXAMPLE: N1L1M001 CARBON MONOXIDE DETECTORS MUST BE LABELED WITH THE MANUFACTURES REPLACEMENT DATE. IMPORTANT! DUPLICATE ADDRESSES BETWEEN DEVICES AND MODULES ARE NOT AN ERROR. NOTE: PULL STATIONS ARE IDENTIFIED AS MODULES BY THE FIRE ALARM CONTROL PANEL. INSTALLATION NOTES: ALL FIELD WIRING SHALL BE INSTALLED IN CONDUIT. FIELD WIRING SHALL BE INSTALLED FOLLOWING THE CURRENT EDITION OF NFPA 70: NATIONAL ELECTRIC CODE(2017), ALL APPLICABLE MUNICIPAL, COUNTY, & STATE CODES, REQUIREMENTS, AND REGULATIONS, AS WELL AS ALL MANUFACTURES GUIDELINES FOR INSTALLATION.	
	NFPA 72: NATIONAL FIRE ALARM AND SIGNALING CODE(2 REQUIREMENTS, AND REGULATIONS, AS WELL AS THE INSTALLER SHALL FOLLOW CORRECT CONDUCTOR POL	VENTS SHALL BE INSTALLED FOLLOWING THE CURRENT EDITION OF 2019), ALL APPLICABLE MUNICIPAL, COUNTY, & STATE CODES, ALL MANUFACTURER GUIDELINES FOR INSTALLATION. ARITY, INDICATED CIRCUIT DIVISIONS, PROPER GROUNDING AND
	CIRCUITS CAUSING UNDESIRED OPERATION OR DAMAGE TO COMP IF EXCEEDING 4500 FEET, THE GAUGE OF WIRE USED FOR DETERMINED BY THE INSTALLER FOLLOWING GUIDELINES A DOCUMENT #51253, INTELLIGENT CONTROL PANEL SLC WIRING ONLY TO ALLOW FOR VARIANCES IN ACTUAL WIRE DISTANC	CAN RESULT IN INTERFERENCE, TRANSIENT VOLTAGE, OR SHORT D THE CONTROL PANEL, DEVICES AND ANY OTHER INTEGRATED PONENTS. R THE SLC LOOP (IDENTIFIED AS "A" ON THIS PRINT), SHALL BE IND LIMITATIONS SET FORTH BY THE MANUFACTURER(NOTIFIER S MANUAL). THE SLC WIRING RISER IS SHOWN DIAGRAMMATICALLY DE, DEVICE PLACEMENT AND STRUCTURAL OR ENVIRONMENTAL
B HS B	WIRE FOR THE NOTIFICATION APPLIANCE CIRCUITS (IDEN REQUIREMENTS OF THIS SYSTEM MEETS NFPA REQUIREMENTS FOR OPERATIO HOWEVER, THE USEFUL LIFE OF THE SYSTEM'S STANDBY BAT AFFECTED BY EXTREME TEMPERATURE RANGES AND HUMIDIT	REMENTS. NTIFIED AS "B" ON THIS PRINT), SHALL FOLLOW THE SPECIFIC F THE WIRING LEGEND . IN AT 32-120°F AND A RELATIVE HUMIDITY OF 91-95% AT 87-93°F. TERIES AND THE ELECTRONIC COMPONENTS MAY BE ADVERSELY TY. THEREFORE, IT IS RECOMMENDED THAT THIS SYSTEM AND ITS IT WITH A NORMAL ROOM TEMPERATURE OF 60-80°F.
VERIFY AND NOTE DEVICE LOCATION	SYSTEM DESIGN PERFORMANCE AND COMPLIANCE WITH ALL OF THE DESIGNING ENGINEER. PROPER INSTALLATION OF THI INSTALLING CONTRACTOR. ANY ALTERATIONS, CHANGES, O DESIGNIN NORRIS INC. ASSUMES NO RESPONSIBILITY FOR ERRORS I ASSOCIATED WITH CORRECTING THESE ERRORS, IF ANY EXIST	APPLICABLE CODES AND REQUIREMENTS IS THE RESPONSIBILITY IS SYSTEM AND ITS COMPONENTS IS THE RESPONSIBILITY OF THE R DEFICIENCIES MUST BE BROUGHT TO THE ATTENTION OF THE IG ENGINEER. IN SYSTEM DESIGN OR INSTALLATION, AS WELL AS ANY COSTS T. UNLESS SYSTEM DESIGN OR INSTALLATION WAS PERFORMED BY RRIS INC.
	CONNECTIONS FROM THE RELAY, AND MONITOR M	ITOR MODULES: MODULES TO THE CONTROL EQUIPMENT, ALONG WITH ALL BE FURNISHED BY THE INSTALLER.
B - S - B - B - B - B - B - B - B - B -		
VERIFY AND		
NOTE DEVICE Location		
	REVISION O: SUBMITTA	AL 03/11/2020
	FIRE ALARM	
	PROJECT NUMBER. 17 PROJECT:	DRAWN BY:
	UNITED WAY SUITE 550 FOREST A' PORTLAND, MAINE	VE. CHECKED BY: 04101 MP
	2257 BROADWAY SOUTH	PORTLAND, MAINE





Yes. Life's good here.



Permitting and Inspections Department

Fire Alarm Permit Application

Construction Address: 550 Forest Ave.			
Total Square Footage of Proposed Structure: 7100			
Tax Assessor's Chart, Block & Lot	Applicant Name: Norris Inc.		
Chart# Block# Lot#	Address: 2257 West Broadway South Portland, ME. 04106		
	Phone: 207-883-3473		
Cost of Work: \$ 5,000	Email: melissap@norrisinc.com		
Lessee/Owner Name (if different):	Contractor Name (if different):		
SSA Realty c/o Dirigo Management	same		
Address: One City Center Portland, ME. 04101	Address:		
Phone: 871-1080	Phone:		
Email: gary@digiromgmt.com	Email:		
Current use (i.e. single family): n/a			
If vacant, what was the previous use? SSA			
Proposed specific use: United Way			
Is property part of a subdivision? If yes, name: No			
Project description: add, remove and relocate devices as needed for United Way reno			
Life Safety Code Occupancy Classification: existing office, new assembly			
Is this new work or a renovation to an existing system? reno			
Is the top occupiable floor of the building greater than 75 feet above the lowest level of Fire Department			
access (high-rise)?			
Name of company providing programming and certification of system*: Norricinch			
Electrical permit #: $EHC - 2020 - 02513$			
Will a master box be installed? O Yes O No If yes, complete all items for approval):			
AES approved installing contractor:			
Documentation of AES approval:			
Property Owner:			
Property Owner Billing Address:			
Property common name:			
E-911 address for protected premises:			
Emergency contact phone: Additional emergency contact phone:			
Number of stories protected:			
Is the building protected by a supervised, automatic sprinkler system? O Yes O No			
Name of person to contact when the permit is ready: Norris Inc Melissa Peter			
Address: same as above			
City, State & Zip:			
Email Address: melissap@norrisinc.com	Phone:		

*For a list of approved fire alarm companies, see <u>www.portlandmaine.gov/1486/Approved-Fire-Alarm-Companies</u> 389 Congress Street, Room 315/Portland Maine 04101/<u>www.portlandmaine.gov</u>/tel: 207-874-8703/fax: 207-874-8716