DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND BUILDING PERMIT



This is to certify that SEACOAST SECURITY 4 SUMMER ST FREEPORT, ME 04032

For installation at 201 STATE ST 6-DWELLINGS

Job ID: 2012-01-3183-FAFS

CBL: 046- C-009-001

has permission to install a sprinkler supervisory alarm system

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

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

Fire Prevention Officer

Code Enforcement Officer / Plan Reviewer

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

BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 (ONLY)

or email: buildinginspections@portlandmaine.gov

With the issuance of this permit, the owner, builder or their designee is required to provide adequate notice to the city of Portland Inspections Services for the following inspections. Appointments must be requested 48 to 72 hours in advance of the required inspection. The inspection date will need to be confirmed by this office.

- Please read the conditions of approval that is attached to this permit!! Contact this
 office if you have any questions.
- Permits expire in 6 months. If the project is not started or ceases for 6 months.
- If the inspection requirements are not followed as stated below additional fees may be incurred due to the issuance of a "Stop Work Order" and subsequent release to continue.

Final Fire

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

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



PORTLAND MAINE

Strengthening a Remarkable City, Building a Community for Life . www.portlandmaine.gov

Director of Planning and Urban Development Penny St. Louis

Job ID: <u>2012-01-3183-FAFS</u> <u>install a sprinkler supervisory alarm</u> system For installation at: 201 STATE ST 6-DWELLINGS

CBL: 046- C-009-001

Conditions of Approval:

Fire

A sprinkler supervisory system shall be provided in accordance with NFPA 101, *Life Safety* Code, and NFPA 72, *National Fire Alarm and Signaling Code*. Sprinkler supervisory system shall monitor for water flow and sprinkler supervisory signals via an approved fire alarm panel to central station. One smoke detector shall be located over the FACP, a manual pull station located at the front door, and an audible water flow alarm provided. The FACP shall be located at the front door unless otherwise approved by the Fire Prevention Bureau.

The fire alarm system shall comply with the City of Portland Standard for Signaling Systems for the Protection of Life and Property. All fire alarm installation and servicing companies shall have a Certificate of Fitness from the Fire Department.

In field installation shall be installed per code as conditions dictate.

All smoke detectors and smoke alarms shall be photoelectric.

Records cabinet, FACP, annunciator(s), and pull stations shall be keyed alike.

Central Station monitoring for addressable fire alarm systems shall be by point.

All fire alarm records required by NFPA 72 should be stored in an approved cabinet located at the FACP labeled "FIRE ALARM RECORDS".

Installation of a Fire Alarm system requires a Knox Box to be installed per city ordinance.

The fire alarm system shall be certified by a master fire alarm company and have a new fire alarm inspection sticker.

System acceptance and commissioning must be coordinated with alarm and suppression system contractors and the Fire Department. Call 874-8703 to schedule.

Fire Alarm system shall be maintained. If system is to be off line over 4 hours a fire watch shall be in place. Dispatch notification required 874-8576.

City of Portland, Maine - Building or Use Permit Application

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

Job No: 2012-01-3183-FAFS						
Location of Construction: 201-203 STATE ST	Owner Name: SEA OTTER LLC -Louise Murphy Contractor Name: SEACOAST SECURITY Phone:		Owner Address: 39 COVESIDE LN YARMOUTH, ME		Phone:	
Business Name:			Contractor Addi	Phone: (207) -865-0394		
Lessee/Buyer's Name:			Permit Type: FIRE ALARM			Zone: R-6
Past Use: Six (6) residential condos - #09-1441	Proposed Use: Same: 6 residential of to install a fire alarn		Cost of Work: \$2,000.00			CEO District Inspection:
	rear entry		Signature: Bi	Approved w/ co Denied N/A Wall 59	7	Use Group: Type: Signature:
Proposed Project Description:			Pedestrian Activ	vities District (P.A.D.)		
Permit Taken By: Gayle				Zoning Approva	ıl	
 This permit application de Applicant(s) from meeting Federal Rules. Building Permits do not in septic or electrial work. Building permits are void within six (6) months of the False informatin may investigate and stop all work. 	g applicable State and nelude plumbing, I if work is not started the date of issuance. alidate a building	Shorelar Wetland Flood Zo Subdivis Site Plan	sone	Zoning Appeal Variance Miscellaneous Conditional Use Interpretation Approved Denied Date:	Not in Dis Does not Requires Approved	st or Landmark Require Review Review
nereby certify that I am the owner of re e owner to make this application as his e appication is issued, I certify that the enforce the provision of the code(s) ap	s authorized agent and I agree e code official's authorized re	to conform to	all applicable laws of	this jurisdiction. In addition	n, if a permit for wo	rk described in

2012 01 3/83

SURGA RILANDE

Fire Alarm Permit

Installation address:	CBL:
Exact location: (within structure) Rear Entry	
Type of oecupaney(s) (NFPA & ICC): Condo's	LICI RES.
Building owner: Louise Murphy SEA CHEY	unoted to con
Must be System Designer (point of contact): Steve Spearin - MIC.	
Designer phone: 865-0394 Ext. 504	E-mail: chrisb@seacoastsecurity.com
Installing contractor: Seacoast Security	Certificate of Fitness No: 1006
Contractor phone:	E-mail:
	V AES Master Box: YES NO NO lude Master Box approval form)
Amendment to an existing permit: YES NO Perm	nit no:
The following documents shall be provided with this application:	
Floor plans Scope of Work Wiring diagram Annunciator details Input/ Output Matrix Designer qualifications Equipment data sheets Battery/ voltage drop calcs Electrical Permit Pulled (check alarm/com) Master box approval only: YES (If yes check New AES Master Box above)	COST OF WORK: 440 PERMIT FEE: 440 (\$10 PER \$1.000 + \$30 FOR THE FIRST \$1.000) RECEIVED JAN 3 1 2012 Dept. of Building Inspections City of Portland Maine
The <u>designer</u> shall be the responsible party for this application. If	
www.portlandmaine.gov/fire for every submittal. Submit all plans in e	
the Building Inspections Department, 389 Congress Street, Room	
Prior to acceptance of any fire alarm system, a complete commissioni	
fire system contractors and the Fire Department, and proper document	
All installation(s) must comply with the City of Portland Technical St	andard for Signaling Systems for the Protection of

Applicant signature: This H. Brown Date: 1-30-12

Life and Property, available at www.portlandmaine.gov/fire.

Seacoast Security

P.O. Box K 4 Summer St. Freeport Maine.04032 207-865-0394 1-800-210-5723 Fax 207-865-0852 sales@seacoastsecurity.com

201 & 203 State St. 201-203 State St. Portland, Maine 04102 No Phone Attn : Louise Murphy / 653-6672// 925-1844

weeziemurphy@msn.com



Sales Quote

Project: Type 7

Questions? Please call Chris H. Brown

Quote #: CBF010764A Date 12/19/2011 Quote Expires on: 1/18/2012

Description

CLIENT PROVIDES; TWO LOOP START DEDICATED PHONE LINES WITH IN- STATE LONG DISTANCE SERVICE (CAT.5 OR 6) AT THE FIRE PANEL & A DIRECT CIRCUIT AT FIRE PANEL

THE FIRE DEPARTMENT REQUESTED : CLIENT TO HAVE THE INTEGRITY OF THE FIREWALL IN THE STAIRWELL TO BE MAINTAINED WHEN INSTALLING THE FIRE EQUIPMENT.

CLIENT WILL BE RESPONSIBLE FOR THE RECESSED MOUNTING AREA FOR THE FIRE PANEL DIMENSIONS WILL BE PROVIDED). THE BACK BOXES WILL BE PREWIRED & MOUNTED PRIOR TO THE SHEET ROCKING OF THE AREA FOR THE MANUAL PULL STATION, HORN/STROBE & SMOKE DETECTOR.

ONE FIRE-LITE FOUR CHANNEL DIGITAL ALARM COMMUNICATOR

TWO RJ31X TELEPHONE JACKS & CORDS

TWO 12V 7AMP BATTERIES

ONE CONNECTION TO CLIENT INSTALLED WATERFLOW SWITCH

ONE CONNECTION TO CLIENT INSTALLED WATERFLOW RISER TAMPER SWITCH

ONE MANUAL PULL STATION / REAR EXIT

ONE P/E SMOKE DETECTOR W/THERMAL / OVER PANEL

ONE WALL MOUNTED HORN/STROBE / REAR EXIT

18/4 SOL JKT FPLP / PLENUM FIRE WIRE

MISC. PARTS

MAINE TELCOM TAX / INCLUDED
PORTLAND FIRE ALARM PERMIT FEE / INCLUDED
MAINE BATTERY DISPOSAL FEE / INCLUDED

SEACOAST UL CENTRAL STATION MONITORING WITH DAILY TEST // \$30 PER MONTH

I accept the terms an	d conditions of this quotation.		
Signed:		Sub-Total	\$684.40
Name:	Date:		\$960.00
Terms: 1 / 2 down 30	day on completion Major credit cards	LABOR	\$300.00
accepted.		Tax	\$34.22
This	s Is Schedule A	Total	\$1,678.62

Please Note Large jobs will be Billed with Progress
Billing over \$10,000.00 One Year Warranty
NOTE: This Quote Is Confidential And May Not Be Shared In Anyway

Thank you for considering our company. If you decide not to buy from us, we would appreciate your feedback so that we can serve you better in the future!

In State Local Family Owned & Operated U.L. Listed Seacoast Central Station, IMSA Certified, NFPA Member, First Alert & Honeywell Dealer, Keyscan Enterprise Partner



To: Ben Wallace, Jr., Fire Prevention Officer Portland Fire Dept.

Re: Fire Alarm sequence of operation

January 31st. 2012

Whenever an initiating device, waterflow, smoke detector, or manual pull station is activated, this in turn will sound the notification device located in rear of the building & transmit the alarm to Central Station. The notification device is one horn/strobe in rear stairwell.

Sprinkler riser is in cellar. Smoke detector & pull station are above Fire panel inside first floor rear entry door where Knox box is located.

The procedure for the Fire Dept. when they arrive on site will be to go to the rear of the building and determine which device was activated. Pull station will show alarm, smoke detector will have a steady red light & sprinkler will have water bell sounding.

To silence the notification device, press acknowledge silence once then press a second time to silence horn/strobe. When alarm has been resolved the rest switch will clear all circuits and system will be normal.

MS-5UD(E)/MS-10UD(E) Series

Five Zone Fire Alarm Control Panel Ten Zone Fire Alarm Control Panel



Control/Communicators

General

The MS-5UD-3(E) is a five-zone FACP (Fire Alarm Control Panel) and the MS-10UD-7(E) is a ten-zone FACP. These control panels provide reliable fire signaling protection for small to medium-sized commercial, industrial, and institutional buildings. Both panels include built-in communicators for Central Station Service and remote upload/download.

Each of these FACPs is compatible with System Sensor's microprocessor-based i³ series detectors. These conventional smoke detectors can transmit a maintenance trouble signal to the FACP indicating the need for cleaning and a supervisory "freeze" signal when the ambient temperature falls below the detector rating. Additionally, both the MS-5UD-3 and MS-10UD-7 are compatible with conventional input devices such as two- and four-wire smoke detectors, pull stations, waterflow devices, tamper switches, and other normally-open contact devices. Refer to the *Fire*Lite Device Compatibility Document* for a complete listing of compatible devices.

Outputs include four NACs (Notification Appliance Circuits), three programmable Form-C relays (factory programmed for Alarm, Trouble, and Supervisory) and 24 VDC special application resettable and nonresettable power outputs. The FACPs supervise all wiring, AC voltage, battery level and telephone line integrity.

Activation of a compatible smoke detector or any normallyopen fire alarm initiating device will activate audible and visual signaling devices, illuminate an indicating LED, sound the piezo sounder at the FACP, activate the communicator and FACP alarm relay, and operate an optional module used to notify a remote station or initiate an auxiliary control function.

New options include a UL listed printer, PRN-6F and FireLite's IPDACT Internet Monitoring module. The FireWatch Series internet monitoring modules IPDACT-2 and IPDACT-2UD permit monitoring of alarm signals over the Internet saving the monthly cost of two telephone lines. Although not required, the secondary telephone line may be retained providing backup communication over the public switched telephone line.

NOTE: The MS-5UD-3E and MS-10UD-7E offers the same features as the MS-5UD-3 and MS-10UD-7 but allow connection to 240 VAC. Unless otherwise specified, the information in this data sheet applies to both the 120 VAC and the 240 VAC versions of these panels.

NOTE: For ULC-listed models, see DF-60440.

Features

- · Listed to UL Standard 864, 9th edition.
- · Built-in DACT (Digital Alarm Communicator/Transmitter).
- · Style B (Class B) IDC (Initiating Device Circuit)
 - MS-5UD-3 five IDCs.
 - MS-10UD-7 ten IDCs.
- Style Y (Class B) NAC (Notification Appliance Circuit) special application power
 - MS-5UD-3 four NACs.
 - MS-10UD-7 four NACs.
- · Notification Appliances may be programmed as
 - Silence Inhibit.
 - Auto-Silence.



- Strobe Synchronization for System Sensor, Wheelock, Gentex, Faraday, or Amseco devices.
- Selective Silence (horn-strobe mute).
- Temporal or Steady Signal.
- Silenceable or Nonsilenceable.
- Optional CAC-5X Style Z (Class A) Converter Module for NACs and IDCs (2 required for MS-10UD-7).
- Form-C Relays for Alarm, Trouble and Supervisory Contact Ratings 2.0 A@ 30 VDC or 0.5 A@ 30 VAC (resistive).
- · 3.0 A total system current for MS-5UD-3.
- 7.0 A total system current for MS-10UD-7.
- · Optional Dress Panel DP-51050
- Optional Trim Ring TR-CE for semi-flush mounting.
- 24 volt operation.
- Low AC voltage sense.
- · Alarm Verification.
- · PAS (Positive Alarm Sequence).
- Automatic battery trickle charger.
- · Up to eight ANN-BUS annunciators:
 - Optional 8 zone Relay Module ANN-RLY.
 - Optional LED Annunciator Module ANN-LED,
 - Optional Remote Annunciator ANN-80.
 - Optional Remote Printer Gateway ANN-S/PG.
 - Optional LED Annunciator Driver ANN-I/O.
- Optional 4XTMF module (conventional reverse polarity/city box transmitter).

PROGRAMMING AND SOFTWARE:

- Can be programmed at the panel with no special software or additional equipment.
- Programmable Make/Break Ratio.
- Upload/Download (local or remote) of program and data via integral DACT.

USER INTERFACE:

- · Built-in DACT (Digital Alarm Communicator/Transmitter).
- Integral 80-character LCD display with backlighting and keypad.
- Real-time clock/calendar with automatic daylight savings adjustments.
- ANN-BUS for connection to remote annunciators.
- · Audible or silent walk test capabilities.
- · Piezo sounder for alarm, trouble, and supervisory.

Controls and Indicators

LED INDICATORS

- · FIRE ALARM (red)
- · SUPERVISORY (yellow)
- · TROUBLE (yellow)
- · AC POWER (green)
- · ALARM SILENCED (yellow)

CONTROL BUTTONS

- ACKNOWLEDGE
- ALARM SILENCE

- · SYSTEM RESET (lamp test)
- · DRILL

Terminal Blocks

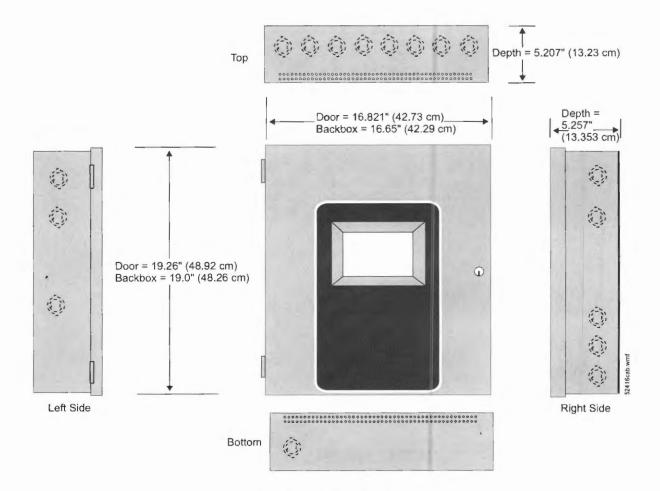
AC Power - TB1:

- MS-5UD-3 (FLPS-3 Power Supply): 120 VAC, 50/60 HZ, 1.00 A.
- MS-5UD-3E (FLPS-3 Power Supply): 240 VAC, 50 HZ, 0.54 A.
- MS-10UD-7 (FLPS-7 Power Supply): 120 VAC, 50/60 HZ, 3.80 A.
- MS-10UD-7E (FLPS-7 Power Supply): 240 VAC, 50/60 HZ, 2.20 A.

Wire size: minimum 14 AWG (2.00 mm²) with 600 V insulation. Supervised, nonpower-limited.

Battery (sealed lead acid only) - J12:

- Maximum Charging Circuit Normal Flat Charge: 27.6 VDC
 1.4 A. Supervised, nonpower-limited.
- Maximum Charger Capacity: 18 AH battery for MS-5UD-3(E), and 26 AH battery for MS-10UD-7(E). [Two 18 Ah batteries can be housed in the FACP cabinet. Larger batteries require separate battery box such as the BB-26 or BB-55.]



Cabinet Measurements

· Minimum Battery Size: 7 AH.

Initiating Device Circuits - TB4 (and TB 6 on MS-10UD-7 only):

- Alarm Zones 1 5 on TB 4 (MS-5UD-3 and MS-10UD-7).
- Alarm Zones 6 10 on TB6 (MS-10UD-7 only).
- · Supervised and power-limited circuitry.
- · Operation: All zones Style B (Class B).
- · Normal Operating Voltage: Nominal 20 VDC.
- · Alarm Current: 15 mA minimum.
- · Short Circuit Current: 40 mA max.
- · Maximum Loop Resistance: 100 ohms.
- End-of-Line Resistor: 4.7K ohm, 1/2 watt (P/N 71252 ULlisted).
- · Standby Current: 2 mA.

Refer to the Fire*Lite Device Compatibility Document for listed compatible devices.

Notification Appliance Circuits - TB5 (and TB 7 on MS-10UD-7 only):

- Four NACs
- · Operation: Style Y (Class B)
- · Special Application power
- · Supervised and power-limited circuitry
- Normal Operating Voltage: Nominal 24 VDC
- Maximum Signaling Current: 3.0 A for MS-5UD-3, 2.5 A maximum per NAC; 7.0 A for MS-10UD-7(E), 3.0 A maximum per NAC.
- · End-of-Line Resistor: 4.7K ohm, 1/2 watt (Part #71252)
- Max. Wiring Voltage Drop: 2 VDC

Refer to the Fire-Lite Device Compatibility Document for compatible listed devices.

Form C Relays - TB8:

- · Relay 1 (factory default programmed as Alarm Relay)
- Relay 2 (factory default programmed as fail-safe Trouble Relay)
- · Relay 3 (factory default programmed as Supervisory Relay)

Special Application Resettable Power - TB9:

- Jumper selectable by JP31 for resettable or nonresettable power.
- Operating voltage: 24 VDC nominal.
- Maximum available current: 500 mA appropriate for powering four-wire smoke detectors.
- · Power-limited circuit.

Refer to the Fire*Lite Device Compatibility Document for listed compatible devices.

Remote Sync Output - TB2: Remote power supply synchronization output, only required for the MS-5UD-3. 24 VDC nominal special application power. Maximum current is 40 mA. End-of-Line Resistor: 4.7K ohm. Supervised and power-limited circuit.

Product Line Information

MS-5UD-3: Five-zone, 24-volt Fire Alarm Control Panel (includes backbox, FLPS-3 power supply, technical manual, and a frame & post operating instruction sheet). 120 VAC operation.

MS-5UD-3E: Same as MS-5UD-3 except for 240 VAC operation.

MS-10UD-7: Ten-zone, 24-volt Fire Alarm Control Panel (includes backbox, FLPS-7 power supply, technical manual, and a frame & post operating instruction sheet).

MS-10UD-7E: Same as above with 240 VAC FLPS-7.

IPDACT, IPDACT-2/2UD Internet Monitoring Module: Mounts in bottom of enclosure with optional mounting kit (PN IPBRKT). Connects to primary and secondary DACT telephone output ports for internet communications over customer provided ethernet internet connection. Requires compatible Teldat Visoralarm Central Station Receiver. Can use DHCP or static IP. (See data sheet DF-60407 for more information.)

IPBRKT: Mounting kit for IPDACT in common enclosure.

IPSPLT: Y Adaptor option to allow connection of both panel dialer outputs to one cable input to IPDACT (sold separately).

OPTIONAL MODULES

CAC-5X: Optional (Class A) Converter Module. Converts Style B (Class B) Initiating Device Circuits to Style D (Class A); and Style Y (Class B) Notification Appliance Circuits to Style Z (Class A). Connects to J2 on the MS-5UD-3 and MS-10UD-7(E) main circuit board and to J7 on the MS-10UD-7(E).

NOTE: Two Class A Converter Modules are required for the tenzone panel.

4XTMF: Transmitter module. Provides a supervised output for local energy municipal box transmitter and alarm and trouble reverse polarity. Includes a disable switch and disable trouble LED. A module jumper option allows the reverse polarity circuit to open with a system trouble condition if no alarm conditions exists. Mounts to the main circuit board connectors J4 and J5.

COMPATIBLE ANNUNCIATORS

ANN-80: Remote LCD Annunciator. Mimics the information displayed on the FACP's LCD. Red. (For white, order: ANN-80-W.)

ANN-LED: LED Annunciator with three LEDs for each zone: Alarm, Trouble, and Supervisory. Mounts in the DP-51050(B) dress panel. Red. (For white, order ANN-LED-W.)

ANN-RLED: LED Annunciator with three alarm (red) indicators for up to 30 input zones or addressable points. (Red. For white, order **ANN-LED-W.**) (See DF-60241).

ANN-RLY: Relay module. Mounts inside the cabinet. Provides ten Form C relays.

ANN-S/PG: Serial/parallel printer gateway. Provides a connection for a serial or parallel printer.

ANN-I/O: Driver module. Provides connections to a user-supplied graphic annunciator.

ACCESSORIES

DP-51050: Optional dress panel. Restricts access to the system wiring while allowing access to the membrane switch panel.

BB-26: Battery backbox, holds up to two 25 AH batteries and CHG-75.

BB-55: Battery backbox, holds up to two 25 AH batteries.

TR-CE: Optional trim-ring for semi-flush mounted cabinets.

PRN-6F: UL listed printer.

SYSTEM SPECIFICATIONS

System Capacity

Annunciators8

Electrical Specifications

- MS-5UD-3 (FLPS-3 Power Supply): 120 VAC, 60 HZ, 1.0 A
- MS-10UD-7 (FLPS-7 Power Supply): 120 VAC, 60 HZ, 3.90 A
- MS-5UD-3E (FLPS-3 Power Supply): 240 VAC, 50 HZ, 0.54 A.
- MS-10UD-7E (FLPS-7 Power Supply): 240 VAC, 50 HZ, 2.20 A.
- Wire size: minimum 14 AWG (2.0 mm²) with 600 V insulation, supervised, nonpower-limited

Cabinet Specifications

Door: 19.26" (48.92 cm.) high x 16.82" (42.73 cm.) wide x 0.72" (1.82 cm.) deep. **Backbox:** 19.00" (48.26 cm.) high x 16.65" (42.29 cm.) wide x 5.25" (13.34 cm.) deep. **Trim Ring (TR-CE):** 22.00" (55.88 cm.) high x 19.65" (49.91 cm.) wide.

Shipping Specifications

Dimensions:

- 20.00" (50.80 cm.) high
- 22.5" (57.15 cm.) wide
- 8.5" (21.59 cm.) deep.

Weight: 27 lb (12.20 kg)

Temperature and Humidity Ranges

This system meets NFPA requirements for operation at 0 – $49^{\circ}\text{C}/32 - 120^{\circ}\text{F}$ and at a relative humidity 93% ± 2% RH (noncondensing) at $32^{\circ}\text{C} \pm 2^{\circ}\text{C}$ ($90^{\circ}\text{F} \pm 3^{\circ}\text{F}$). However, the useful life of the system's standby batteries and the electronic components may be adversely affected by extreme temperature ranges and humidity. Therefore, it is recommended that this system and its peripherals be installed in an environment with a normal room temperature of $15 - 27^{\circ}\text{C}/60 - 80^{\circ}\text{F}$.

Agency Listings and Approvals

The listings and approvals below apply to the basic MS-5UD-3 and MS-10UD-7 control panels. 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: File S624

FM Approved

CSFM: 7165-0075:0214
 MEA: MEA: 333-07-E

NOTE: For ULC-listed models, see DF-60440.

NFPA Standards

The MS-5UD-3(E) and MS-10UD-7(E) complies with the following NFPA 72 Fire Alarm Systems requirements:

- LOCAL (Automatic, Manual, Waterflow and Sprinkler Supervisory).
- AUXILIARY (Automatic, Manual and Waterflow) (requires 4XTMF).
- REMOTE STATION (Automatic, Manual and Waterflow) (Where a DACT is not accepted, the alarm, trouble and supervisory relays may be connected to UL 864 listed transmitters. For reverse polarity signaling of alarm and trouble, 4XTMF is required.)
- PROPRIETARY (Automatic, Manual and Waterflow).
- CENTRAL STATION (Automatic, Manual and Waterflow, and Sprinkler Supervised).
- OT, PSDN (Other Technologies, Packet-switched Data Network)

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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 Fire*Lite Alarms. Phone: (800) 627-3473, FAX: (877) 699-4105. www.firelite.com

Section 4: Operating Instructions

4.1 Panel Control Buttons

4.1.1 Acknowledge/Step

The first press of the Acknowledge Step key silences the piezo sounder, changes flashing LEDs to steady and also changes the status field on the LCD display from capital letters to small letters (TROUBL to Troubl). When the piezo is silenced, an acknowledge message is sent to the printer and the history file. Acknowledge also sends a silence piezo command to the optional annunciators connected to the FACP. The Acknowledge key will have no effect on the Notification Appliance Circuits.

When more than one event exists, the first press of the Acknowledge/Step key functions as described in the preceding paragraph. Subsequent pressing of the key *steps* through each active event.

4.1.2 Alarm Silenced

The Alarm Silenced key performs the same functions as Acknowledge/Step except it will not step through each event when multiple events are present at the panel. If an alarm exists, the Alarm Silenced key turns off all silenceable NACs (Notification Appliance Circuits) and causes the Alarm Silenced LED to turn on. It also sends an 'alarm silenced' message to the printer, history file and optional annunciators. A subsequent new alarm will resound the system NACs. The Alarm Silenced LED is turned off by pressing the Reset key, the Drill key or subsequent activation of the NACs.

Note that if Silence Inhibit has been enabled, NACs cannot be silenced for one minute following initiation of an alarm.

4.1.3 Drill/Hold 2 Sec

When the *Drill* key is held for a minimum of two seconds (time required to prevent accidental activations), the FACP turns on all NAC outputs and turns off the Alarm Silenced LED if it was previously on. The *EVAC IN SYSTEM* message is shown on the LCD display. The same message is sent to the printer and history file. The *Alarm Silence* key can be used to turn off all silenceable NAC outputs following activation by the *Drill* key.

4.1.4 Reset

Pressing and releasing the *Reset* key turns off all NACs, temporarily turns off resettable power to 4-wire detectors, causes a *RESET IN SYSTEM* message to be displayed on the LCD and sends the same message to the printer and history file. It also performs a lamp test by turning on all LEDs, piezo sounder and LCD display segments after the *Reset* key is released. Any alarm or trouble that exists after a reset will resound the system.

Note that if Silence Inhibit has been enabled, the FACP cannot be reset for one mimite following initiation of an alarm.

4.2 LED Indicators

The five LED indicators, which are located on the front panel, operate as follows:

AC Power

This is a green LED which illuminates if AC power is applied to the FACP. A loss of AC power will turn off this LED

Fire Alarm

This red LED flashes when one or more alarms occur. It illuminates steady when the *Acknowledge Step* or *Alarm Silence* key is pressed. The Fire Alarm LED turns off when the *Reset* key is pressed. The LED will remain off if all alarms have been cleared.

Supervisory

This is a yellow LED that flashes when one or more supervisory conditions occur, such as a sprinkler valve tamper condition. It illuminates steady when the *Acknowledge Step* or *Alarm Silence* key is pressed. It turns off when the *Reset* key is pressed and remains off if all supervisory alarms have been cleared.

Trouble

This is a yellow LED that flashes when one or more trouble conditions occur. It stays on steady when the Acknowledge Step or Alarm Silence key is pressed. The LED turns off when all trouble conditions are cleared. This LED will also illuminate if the microprocessor watchdog circuit is activated.

Alarm Silenced

This is a yellow LED that turns on after the *Alarm Silence* key is pressed while an alarm condition exists. It turns off when the *Drill* or *Reset* key is pressed.

4.3 Normal Operation

With no alarms or troubles in the system, the display message is System All Normal along with the current time and date as shown below. To set the time and date, refer to the appropriate section in this manual.

SYSTEM ALL NORMAL 10:00A 070707

The FACP performs the following functions at regular intervals in Normal mode:

- ✓ Monitors AC input voltage and battery voltage
- ✓ Monitors and reports status option cards and control panel
- ✓ Refreshes LCD display and updates time
- ✓ Scans control panel keypad for key presses
- ✓ Tests memory
- ✓ Updates and reads all communications busses (EIA-485, etc.)
- i³ smoke detectors will be polled for maintenance and freeze conditions on initial entry into Normal mode. Thereafter, each device will be polled every hour for freeze and every four hours for maintenance conditions



NOTE: To ensure that the system is functioning properly, the FACP vill perform a freeze check five minutes after the panel is reset, followed by a maintenance check. If there is no freeze or maintenance condition, the panel will continue to monitor for freeze conditions every hour and maintenance conditions every four hours.

4.4 Trouble Operation

With no alarms in the system, the detection of a trouble will cause the following:

- The piezo to pulse 1 second On and 1 second Off
- The system Trouble LED to flash one second On and one second Off
- · The trouble relay to activate
- TROUBL with device type, adjective/noun, address and trouble description will appear on the LCD display
- The same message, along with the time and date, is sent to the optional printer and the history buffer.
- Communicate the trouble conditions to the Central Station
- · Terminate upload or download communications

Note that specific troubles will initiate additional actions; for example, loss of AC power will turn off the AC Power LED, etc.

Input Zone

For Input Zones, the following is a typical message that could appear on the LCD display for a device trouble:

TROUBL PULL STATION

<ADJ> <NOUN>

ZONE 10 OPEN FAULT

10:00A 111009

The information displayed in the above example provides the following information:

- First line in display:
 - The type of event; in this example OPEN indicating a circuit trouble
 - Device type identifier; in this example, PULL STATION indicates a manual device. Other
 device type identifiers which can be displayed include SMOKE for Smoke Detector, HEAT
 for Heat Detector, etc.
- Second line in display:
 - <ADJ>; refers to the user programmed adjective descriptor from library list resident in the control panel or custom entry via PC.
 - <NOUN>; refers to the user programmed noun descriptor from library list resident in the control panel or custom entry via PC.
- Third line in display indicates Zone and the fault condition. Other possible troubles include:
 - ✓ OPEN indicating an open circuit
 - ✓ DIRTY maintenance alert indicating that an i³ detector is near but below the allowed alarm limit and is in need of maintenance before the performance is compromised
- · Fourth line in display:
 - Time; the current time in this example is 10:004 which represents 10:00 AM
 - Date; the current month, day and year in this example is 11 for November, 10 for the 10th day of the month and 09 for the year 2009

Pressing the Acknowledge/Step or Alarm Silence key will cause the pulsing piezo to silence and the system Trouble LED to change from flashing to on steady. This block acknowledgment occurs regardless of the number of troubles, alarms and supervisory events active in the system. When the Acknowledge/Step key is pressed and at least one new alarm or trouble exists in the system, the 'acknowledge' message is sent to the printer and history file. If the trouble clears, either before or after the Acknowledge/Step key is pressed, the 'clear trouble' message is sent to the printer and history file.

If all troubles clear and there are no supervisory or fire conditions active in the system, the system returns to normal mode operation and the *System All Normal* message is shown on the LCD display and sent to the history and printer files. The auto-restore feature will restore cleared troubles even if the troubles were never acknowledged. Note that pressing the *Alarm Silence* key when only troubles exist in the system will have the same effect as pressing the *Acknowledge Step* key except the Alarm Silenced LED will light.

4.5 Alarm Operation

Alarm operation is similar to trouble operation with the following differences:

- · The piezo sounder produces a steady output as opposed to a pulsed output
- · The Fire Alarm LED flashes 1 second On and 1 second Off
- The LCD displays Alarm along with the device name, type, adjective/noun, associated zones and time/date
- Communicate the alarm to the Central Station
- · Alarms latch and are not allowed to clear automatically
- · Timers for Silence Inhibit, Autosilence and Trouble Reminder are started
- Alarms activate the alarm relay
- · Silenced alarms are resounded
- · The trouble relay is not activated
- Store event in history buffer
- Terminate upload or download communications

A typical alarm display would be as illustrated below:

ALARM PULL STATION

<ADJ> <NOUN>

ZONE 10

10:00A 111009

Note that the device type, which in this example is *PULL STATION*, can be any other programmable alarm type.

The information displayed in the above example provides the following information:

- First line in display:
 - The type of event; in this example ALARM indicating an alarm condition
 - Device type identifier; in this example, PULL STATION indicates a manual pull box. Other
 device type identifiers which can be displayed include SMOKE for Smoke Detector, HEAT
 for Heat Detector, etc.
- · Second line in display:
 - <ADJ>; refers to the user programmed adjective descriptor from library list resident in the control panel or custom entry via PC.
 - <NOUN>; refers to the user programmed noun descriptor from library list resident in the control panel or custom entry via PC.



Photoelectric Smoke Detectors

System Sensor i^{3™} series smoke detectors represent significant advancement in conventional detection.

The i³ family is founded on three principles: installation ease, intelligence, and instant inspection.



Features

- · Plug-in detector line, mounting base included
- · Large wire entry port
- · In-line terminals with SEMS screws
- Mounts to octagonal and single-gang back boxes, 4-square back boxes, or direct to ceiling
- Stop-Drop 'N Lock attachment to base
- · Removable detector cover and chamber
- · Built-in remote maintenance signaling
- · Drift compensation and smoothing algorithms
- · Simplified sensitivity measurement
- · Wide-angle, dual-color LED indication
- · Loop testing via EZ Walk feature
- · Built-in test switch

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

Intelligence. P detectors offer a number of intelligent features to simplify testing and maintenance. Drift compensation and smoothing algorithms are standard with the P line to minimize nuisance alarms. 2-wire P detectors can generate a remote LED-indicated maintenance signal when connected to the 2W-MOD2 loop test/maintenance module or a panel equipped with the P protocol. The SENS-RDR, a wireless device, displays the sensitivity of P detectors in terms of percent-per-foot obscuration.

Instant inspection. The i³ series provides wide-angle red and green LED indicators for instant inspection of the detector's condition: normal standby, out-of-sensitivity, alarm, or freeze trouble. When connected to the 2W-MOD2 loop test/maintenance module or a panel with the i³ protocol, the EZ Walk loop test feature is available on 2-wire i³ detectors. This feature verifies the initiating loop wiring by providing LED status indication at each detector.

Agency Listings















Architectural/Engineering Specifications

Electrical Specifications	The state of the s
Operating Voltage	Nominal: 12/24V non-polarized
	Minimum: 8.5 V
	Maximum: 35V
Maximum Ripple Voltage	30% peak to peak of applied voltage
Standby Current	2-wire: 50 μA maximum average; 4-wire: 50 μA maximum average
Maximum Alarm Current	2-wire: 130 mA limited by control panel; 4-wire: 20 mA @12 V, 23 mA @ 24 V
Peak Standby Current	2-wire: 100 μA; 4-wire: n/a
Alarm Contact Ratings	2-wire: n/a; 4-wire: 0.5 A @ 30 V AC/DC
Physical Specifications	
Dimensions (including base)	5.3 inches (127 mm) diameter; 2.0 inches (51 mm) height
Weight	6.3 oz (178 g)
Operating Temperature Range	2W-B and 4W-B: 32°F to 120°F (0°C to 49°C); 2WT-B and 4WT-B: 32°F to 100°F (0°C to 37.8°C)
Operating Humidity Range	0 to 95% RH non-condensing
Thermal Sensor	135°F (57.2°C) fixed
Freeze Trouble	2WT-B and 4WT-B only: 41°F (5°C)
Sensitivity	2.5%/ft nominal
Input Terminals	14 to 22 AWG
Mounting	3½-inch octagonal back box
	4-inch octagonal back box
	Single-gang back box
	4-inch square back box with a plaster ring
	Direct mount to ceiling

LED Modes			Power-Up Sequence for LED Indi	cation
LED Mode	Green LED	Red LED	Condition	Duration
Power up	Blink every 10 seconds	Blink every 10 seconds	Initial LED status indication	80 seconds
Normal (standby)	Blink every 5 seconds	off		
Out of sensitivity	off	Blink every 5 seconds		
Freeze trouble	off	Blink every 10 seconds		
Alarm	off	Solid		

Ordering Information

Model	Thermal	Wiring	Alar	m Current		
2W-B	No	2-wire	130 mA max. limited by control panel			
2WT-B	Yes	2-wire	130 mA max. limited by control panel			
4W-B	No	4-wire	20 mA @ 12 V, 23 mA @ 24 V			
4WT-B	Yes	4-wire	20 m	A @ 12 V, 23 mA @ 24 V		
Accessories						
2W-MOD2	2-wire loop test / mail	ntenance module	RT	Removal / replacement tool		
SENS-ROR	Sensitivity reader		A77-AB2	Retrofit adapter bracket, 6.6 inch (16.76 cm) diameter		



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



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

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



SPECTR Alert

Features

- · Plug-in design with minimal intrusion into the back box
- · Tamper-resistant construction
- Automatic selection of 12- or 24-volt operation at 15 and 15/75 candela
- Field-selectable candela settings on wall units: 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, and 185
- · Horn rated at 88+ dBA at 16 volts
- · Rotary switch for horn tone and three volume selections
- · Universal mounting plate for wall units
- Mounting plate shorting spring checks wiring continuity before device installation
- · Electrically Compatible with legacy SpectrAlert devices
- · Compatible with MDL sync module

The SpectrAlert Advance series offers the most versatile and easy-to-use line of horns, strobes, and horn strobes in the industry. With white and red plastic housings, wall and ceiling mounting options, and plain and FIRE-printed devices, SpectrAlert Advance can meet virtually any application requirement.

Like the entire SpectrAlert Advance product line, wall-mount horns, strobes, and horn strobes include a variety of features that increase their application versatility while simplifying installation. All devices feature plug-in designs with minimal intrusion into the back box, making installations fast and foolproof while virtually eliminating costly and time-consuming ground faults.

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

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

Agency Listings











7135-1653 189 (horns, chimes)

SpectrAlert Advance Specifications

Architect/Engineer Specifications

Genera

SpectrAlert Advance horns, strobes, and horn strobes shall mount to a standard $4 \times 4 \times 11$ /2-inch back box, 4-inch octagon back box, or double-gang back box. Two-wire products shall also mount to a single-gang $2 \times 4 \times 17$ /2-inch back box. A universal mounting plate shall be used for mounting ceiling and wall products. The notification appliance circuit wiring shall terminate at the universal mounting plate. Also, SpectrAlert Advance products, when used with the Sync-Circuit" Module accessory, shall be powered from a non-coded notification appliance circuit output and shall operate on a nominal 12 or 24 volts. When used with the Sync-Circuit Module, 12-volt-rated notification appliance circuit outputs shall operate between 9 and 17.5 volts; 24-volt-rated notification appliance circuit outputs shall operate between 17 and 33 volts. Indoor SpectrAlert Advance products shall operate between 32 and 120 degrees Fahrenheit from a regulated DC or full-wave rectified unfiltered power supply. Strobes and horn strobes shall have field-selectable candela settings including 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, and 185.

Strobe

The strobe shall be a System Sensor SpectrAlert Advance Model ______listed to UL 1971 and shall be approved for fire protective service. The strobe shall be wired as a primary-signaling notification appliance and comply with the Americans with Disabilities Act requirements for visible signaling appliances, flashing at 1 Hz over the strobe's entire operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system.

Horn Strobe Combination

The horn strobe shall be a System Sensor SpectrAlert Advance Model _______ listed to UL 1971 and UL 464 and shall be approved for fire protective service. The horn strobe shall be wired as a primary-signaling notification appliance and comply with the Americans with Disabilities Act requirements for visible signaling appliances, flashing at 1 Hz over the strobe's entire operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system. The horn shall have three audibility options and an option to switch between a temporal three pattern and a non-temporal (continuous) pattern. These options are set by a multiple position switch. On four-wire products, the strobe shall be powered independently of the sounder. The horn on horn strobe models shall operate on a coded or non-coded power supply.

Synchronization Module

The module shall be a System Sensor Sync-Circuit model MDL listed to UL 464 and shall be approved for fire protective service. The module shall synchronize SpectrAlert strobes at 1 Hz and horns at temporal three. Also, while operating the strobes, the module shall silence the horns on horn strobe models over a single pair of wires. The module shall mount to a $41\% \times 41\% \times 2\%$ -inch back box. The module shall also control two Style Y (class B) circuits or one Style Z (class A) circuit. The module shall synchronize multiple zones. Daisy chaining two or more synchronization modules together will synchronize all the zones they control. The module shall not operate on a coded power supply.

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

Notes

1. Full Wave Rectified (FWR) voltage is a non-regulated, time-varying power source that is used on some power supply and panel outputs.

2. P, S, PC, and SC products will operate at 12 V nominal only for 15 and 15/75 cd.

UL Current Draw Data

UL Max. Strobe	Current Dra	w (mA R	AS)			
		8-17.5	Volts	16-33 Volts		
	Candela	DC	FWR	DC	FWR	
Standard	15	123	128	66	71	
Candela Range	15/75	142	148	77	81	
	30	NA	NA	94	96	
	75	NA	NA	158	153	
	95	NA	NA	181	176	
	110	NA	NA	202	195	
	115	NA	NA	210	205	
High	135	NA	NA	228	207	
Candela Range	150	NA	NA	246	220	
	177	NA	NA	281	251	
	185	NA	NA	286	258	

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

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

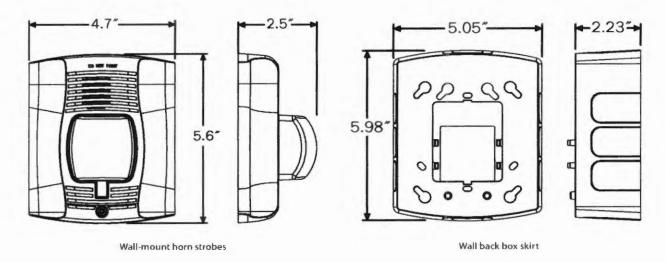
DC Input	1633 Volts					16-33 Volts			
	135	150	177	185	FWR Input	135	150	177	185
Temporal High	245	259	290	297	Temporal High	215	231	258	265
Temporal Medium	235	253	288	297	Temporal Medium	209	224	250	258
Temporal Low	232	251	282	292	Temporal Low	207	221	248	256
Non-Temporal High	255	270	303	309	Non-Temporal High	233	248	275	281
Non-Temporal Medium	242	259	293	299	Non-Temporal Medium	219	232	262	267
Non-Temporal Low	238	254	291	295	Non-Temporal Low	214	229	256	262

Horn Tones and Sound Output Data

			8-17	7.5	16-3	33	24-V	olt Nomi	nai	
Switch Position			Volts		Volts		Reverberant		Anechoic	
	Sound Pattern	dB	DC	FWR	DC	FWR	DC	FWR	DC	FWR
1	Temporal	High	78	78	84	84	88	88	99	98
2	Temporal	Medium	74	74	80	80	86	86	96	96
3	Temporal	Low	71	73	76	76	83	80	94	89
4	Non-Temporal	High	82	82	88	88	93	92	100	100
5	Non-Temporal	Medium	78	78	85	85	90	90	98	98
6	Non-Temporal	Low	75	75	81	81	88	84	96	92
7†	Coded	High	82	82	88	88	93	92	101	101
8 [†]	Coded	Medium	78	78	85	85	90	90	97	98
9†	Coded	Low	75	75	81	81	88	85	96	92

^{&#}x27;Settings 7, 8, and 9 are not available on 2-wire horn strobes.

SpectrAlert Advance Dimensions



SpectrAlert Advance Ordering Information

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

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

Notes:

- * Add *-P* to model number for plain housing (no "FIRE" marking on cover), e.g., P2R-P
- † Add "-SP" to model number for "FUEGO" marking on cover, e.g., P2R-SP
- *"Standard cd" refers to strobes that include 15, 15/75, 30, 75, 95, 110, and 115 candela settings. "High cd" refers to strobes that include 135, 150, 177, and 185 candela settings.



www.firelite.com

July 14, 2004

S711

ADA

DF-50628 • F-200

BG-8 Series Manual Fire Alarm Pull Stations

Section: Conventional Initiating Devices

GENERAL

The Fire-Lite Alarms BG-8 Manual Fire Alarm Pull Station provides a single-action, normally-open contact alarm initiating point for use with UL listed Fire Alarm Control Panels.

FEATURES

- · Complies with Americans with Disabilities Act.
- · Sturdy metal construction.
- · Simple operation.
- · Operation does not require replacement of parts.
- Drawing of flames on cover helps communicate purpose of this device to people who do not read English words
- Designed to prevent false alarms when bumped, shaken, or jarred.
- · Listed to UL 38.

APPLICATIONS

Designed for indoor use in atmospheres which are not potentially explosive. Use as a means of allowing anyone on the premises to turn in a non-coded alarm quickly, without chance of error. Typical uses include:

- 1. Schools.
- 2. Hospitals.
- 3. Retail stores.
- 4. Industrial plants.
- 5. Warehouses.

Compatible with any appropriate control panel to:

- 1. Initiate local alarm signals.
- 2. Trip a municipal fire alarm box.
- 3. Start fire pumps.
- Any other function that can be initiated or controlled by the closing of a switch contact.

OPERATION

The stations feature non-break-glass operation. They are operated by a pull on the pull cover. This causes a key latch to act against a retaining mechanism until adequate force is applied to open the station. As the station opens, a switch is released to initiate an alarm. The retainer in Model BG-8 is a permanent, high-tensile, *flat* spring, which eliminates the need for a glass retainer. When so operated, the cover hangs down (and cannot be reset without use of a reset key) indicating that the station was used to initiate an alarm. *OPERATED STATIONS CAN BE SEEN UP TO 100 FEET AWAY*.

The attractive design of the stations highlights their engi-



MEA 28-93-E



BG-8 (shown full size)

Fire-Lite® Alarms is a Honeywell company.

This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.

For more information, contact Fire*Lite Alarms, One Fire*Lite Place, Northford, Connecticut 06472. Phone: (800) 627-3473, Toll-Free FAX: (877) 699-4105.





neered simplicity and unusual dependability; bumping, shaking, or jarring will not activate the switch or circuit. Instructions for operation of the station are clearly marked on the front of the pull cover.

The **BG-8** Station is die-formed from 1/8" thick satin finish aluminum, with the operating instructions in raised letters. **BG-8** contacts rated at: 1 amp., 30 VAC, and 30 VDC.

Master key fits all stations used in an installation of the same series.

INSTALLATION

The station mounts with two screws (supplied) to a standard single-gang electrical switch box. It can also be mounted to a surface mount box. 6" wire leads are provided for making easy connections.

ARCHITECT/ENGINEERING SPECIFICATIONS

Manual Fire Alarm Stations shall be non-code, non-breakglass type equipment with a key operated reset, and so designed that after actual Emergency Operation, they cannot be restored to normal except by use of a key. An operated station shall be designed such that upon activation, it will be visually detectable at a minimum distance of one hundred feet, front or side. Manual Stations shall be constructed of die-formed aluminum, with operating directions provided on the front cover in raised letters. The word FIRE shall appear on the front of the stations in raised letters, five-eights inch high or larger. Stations shall be suitable for surface mounting on matching backbox, or semi-flush mounting on a standard single-gang box or switch plate, and shall be installed within the limits defined by the Americans with Disabilities Act (ADA) dependent on manual station accessibility or per local requirements. Manual Stations shall be Underwriters Laboratories listed.

PRODUCT LINE INFORMATION

Model Description

BG-8 Manual Fire Alarm Pull Station. Single-action. Normally-open contact.

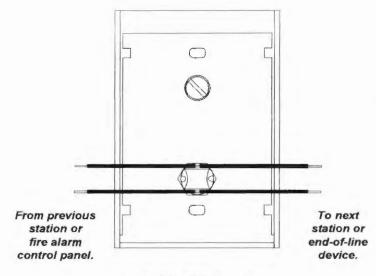
BG-8SP SPANISH Manual Fire Alarm Pull Station, with FUEGO (FIRE) and JALE (PULL) in large capital letters. Single-action. Normally-open contact.

BG-2R Surface mounting backbox for BG-8 Series stations, One end tapped for 1/2" conduit. Color: MATCHING RED.

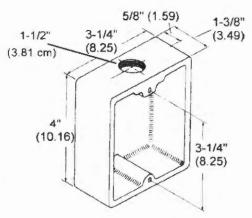
17003 Key.



BG-8SP



BG-8 / BG-8SP (Rear View)



BG Series Backbox

Original Receipt

	2012				
Received from					
Location of Work	502 Stat ST				
Cost of Construction \$	Building Fee:				
Permit Fee \$	Site Fee:				
Cer	rtificate of Occupancy Fee:				
40.00	Total:				
	Electrical (I2) Site Plan (U2)				
Other	- # A01701 3183				
CBL: 046 (009	7. 00.100				
Check #:\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Total Collected \$ 96.0				
No work is to be started until permit issued.					
Please keep origi	nal receipt for your records.				
Taken by:					
WHITE - Applicant's Copy YELLOW - Office Copy PINK - Permit Copy					