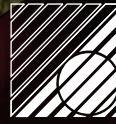


Innovative.
Incognito.
Ingenious.



CONCEALITE[™]
LIFE SAFETY PRODUCTS
A Division of Gow Industries, Inc.

www.concealite.com

Concealite offers an innovative choice that conceals obtrusive fire alarm appliances. Our life safety products are available in a variety of custom finishes to blend in with interiors. We specialize in working with the design community to make our custom product lines fit your ideas and needs.

Conceal-Alarm Series FA 900 & FAFX- Standard and Normal Power

ETL listed to UL standards UL1971, UL1480, UL 464

Aesthetics

In architectural environments, fire notification appliances are obtrusive and interrupt the aesthetic beauty of interior designs. Concealite has applied their patented egress lighting technology to fire alarm equipment in order to maintain design integrity. Only when the fire system is activated do the units become visible, rotate 180 degrees, and begin operation. The result is a clean, almost invisible installation, that does not conflict with your interior.

Architectural Features

- Standard white powder coat finish or units can be customized in the field using paint, wallpaper, or appliqué finishes.
- No minimum order for factory customized paint. (U.S. RAL# required)
- Compact, completely self-contained units.
- Interfaces with all fire alarm systems.
- Conceal-Alarm units a standard feature for a door position monitoring system. The door position monitoring system provides for remote powered audio and / or visual monitoring. Providing remote indication of the concealed normal power flush door position and the activated alarm mode exposed indicating fire alarm devices position.
- The Conceal-Alarm units feature dedicated remote supervision of the internal audio and visual indicating fire alarm devices. This dedicated remote supervision allows for remote fire alarm panel system indication of open and trouble indicating branch circuit conditions upon removal of an internally Conceal-Alarm mounted indicated fire alarm devices.
- Units fit in standard stud wall.(See FAFX for ceiling devices.)
- Retrofit kits available for installation in existing walls.
- Units furnished standard with Wheelock UL listed devices.
- Units are vandal resistant.
- Designed for wall installations, including gypsum board or plaster (with plaster trim option.)(See FAFX for ceiling devices.)
- Flush Mounting System (Provides Frameless Appearance).
- Units conform to NFPA 72 standards.
- ETL listed to UL standards UL1971, UL1480, UL 464



Historic Tennessee Theater, Knoxville TN

Conceal-Alarm Series



FIXTURE SCHEDULE	FIXTURE TYPE:	PROJECT NAME/REF:
APPROVAL:	CANDELA:	PROJECT LOCATION:

Installation

The assembly adjusts to any wall thickness (max 1 1/4", for greater thickness choose BEXT option) and is secured in place with concealed fasteners. The assembled unit including door, device and motor drive assembly are inserted into the recessed enclosure. Wire connections to the unit are made through conduit raceway on the recessed enclosure. For complete installation and operation instructions, please refer to the instruction sheet included with each shipment.

New Projects

For new projects, a single enclosure is mounted before the wall material is installed.

Retrofit/Remodeling Projects

For retrofit/remodeling applications a retrofit back box (suffix RB) enclosure is available. See options and technical data section for details.

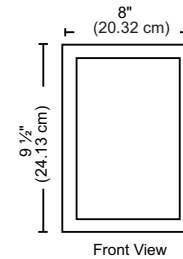
The unit shall interface seamlessly with any fire system and shall not affect or interfere with any diagnostic routines of the fire system. The unit shall be in conformance with NFPA 72 (National Fire Alarm Code).

Speaker/Strobe



Note:
Unit requires finished opening of 8 7/8" H x 6 3/4" W.
Unit depth of 3 5/8" allows for installation into *Walls and Ceiling*.

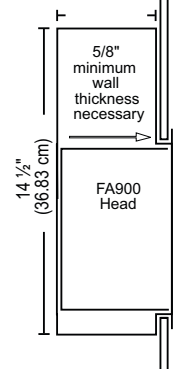
FA900 Unit Dimensions



Front View

**FA900 RB
Remodel Back Box
(7 1/2" W x 13 3/4" L x 3 1/2" D)**

Side View
3 5/8"
(9.21 cm)



Product Specifications

The fire notification appliance shall be Concealite Conceal-Alarm Series. The unit shall be wall mounted and will be controlled by the central fire system. Upon system activation, the door of the unit shall rotate 180 degrees and the fire notification appliance shall begin operation. Upon fire system shutdown, the door will rotate 180 degrees putting the appliance in the hidden or stored position.

The standard unit shall be a white powder coat finish, and can be custom finished by factory, or in the field, using paint, wallpaper or appliqué. The unit shall fit in a standard stud wall, and back boxes shall be available for any standard wall material.

CONTINUOUS NORMAL POWER SYSTEM

The unit shall include door position monitoring system. The door position monitoring system shall provide for remote monitoring of the door position in both closed door normal power mode position and extended open door alarm mode positions. Normally open (NO) and normally closed (NC) dry contacts shall be provided for remote door monitoring position indications branch circuit system input.

The unit shall provide dedicated remote supervision directly to the factory mounted fire alarm devices within the unit. The unit shall include input and output terminations directly to fire alarm with supervision features within the unit. The dedicated direct supervision continuity shall provide connection to the fire alarm panel system inline branch circuit loop continuity from the internal fire alarm devices with supervision feature within the unit. Removal of the internally mounted fire alarm device terminations with supervision features within the unit shall be designed to indicate an open condition and trouble condition notification for indication through interface with the operating fire alarm panel system.

For Ordering (NP) Just Add NP | For Standard Just The Part Number

Device Type	Color	Application	Part Number
Speaker Strobe	Red, High CD	Wall	FA900-W-ELSPSTR-NP
Speaker Strobe	White	Wall	FA900-W-ELSPSTW-NP
Speaker Strobe	White, High CD	Wall	FA900-W-ELSPSTW-NP
Speaker Only	Red	Wall	FA900-W-ELSPKR-NP
Speaker Only	White	Wall	FA900-W-ELSPKW-NP
Horn Only	Red	Wall	FA900-W-ELHNR-NP
Horn Strobe	Red	Wall	FA900-W-ELHSR-NP
Horn Strobe	White	Wall	FA900-W-ELHSW-NP
Strobe Only	Red	Wall	FA900-W-ELSTR-NP
Strobe Only	White	Wall	FA900-W-ELSTW-NP

NP - Continuous Normal Power System (NP) Refer to Technical Data Sheet For Power Requirements.

FMS - Flush Mounting System, gypsum board walls and ceiling. applications.

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Conceal-Alarm Series

FAFX



ETL listed to UL standards UL1971, UL1480, UL 464

Aesthetics

In architectural environments, fire notification appliances are obtrusive and interrupt the aesthetic beauty of interior designs.

Concealite has applied their patented egress lighting technology to fire alarm equipment in order to maintain design integrity. Only when the fire system is activated do the units become visible, rotate 180 degrees, and begin operation. The result is a clean, almost invisible installation, that does not conflict with your interior.

- Standard white powder coat finish or units can be customized in the field using paint, wallpaper, or appliqué finishes.
- No minimum order for factory customized paint. (U.S. RAL# required)
- Compact, completely self-contained units.
- Interfaces with all fire alarm systems.
- Compact, completely self-contained units.
- Interfaces with all fire alarm systems.
- ★ Conceal-Alarm units features a door position monitoring system. The door position monitoring system
- ★ provides for remote powered audio and / or visual monitoring. Providing remote indication of the concealed normal
- ★ power flush door position and the activated alarm mode exposed indicating fire alarm devices position.
- ★ The Conceal-Alarm units feature dedicated remote supervision of the internal audio and visual indicating fire alarm
- ★ devices. This dedicated remote supervision allows for remote fire alarm panel system indication of open and trouble
- ★ indicating branch circuit conditions upon removal of an internally Conceal-Alarm mounted indicated fire alarm devices.
- Units fit in standard stud wall.(See FAFX for ceiling devices.)
- Retrofit kits available for installation in existing walls.
- Units furnished standard with Wheelock UL listed devices.
- Units are vandal resistant.
- Designed for wall installations, including gypsum board or plaster (with plaster trim option.)(See FAFX for ceiling devices.)
- Flush Mounting System (FMS) (Provides Frameless Appearance).
- Units conform to NFPA 72 standards.
- ETL listed to UL standards UL1971, UL1480, UL 464



Acoustic Ceiling Installation

Conceal-Alarm Series

FAFX



ETL listed to UL standards UL1971, UL1480, UL464

FIXTURE SCHEDULE	FIXTURE TYPE:	PROJECT NAME/REF:
APPROVAL:	CANDELA:	PROJECT LOCATION:

Installation

The assembly adjusts to any ceiling thickness (max 1 1/4"). The assembled unit including door, device and motor drive assembly are inserted into the recessed enclosure. Wire connections to the unit are made through conduit raceway on the recessed enclosure. For complete installation and operation sheet included with each shipment.

New Projects

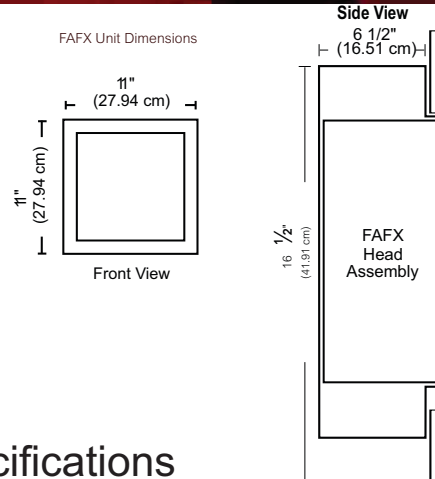
For new projects, a single back box is mounted before the ceiling material is installed.

Retrofit/Remodeling Projects

For retrofit/remodeling applications a multi-section (suffix RB) enclosure is available. See options and technical data section for detail



Note:
Unit requires finished opening of 10 1/4" H x 10 1/4" W.
Unit depth of 6 1/2" allows for installation into ceilings.



Product Specifications

The fire notification appliance shall be Concealite Conceal-Alarm Series. The unit shall be wall mounted and will be controlled by the central fire system. Upon system activation, the door of the unit shall rotate 180 degrees and the fire notification appliance shall begin operation. Upon fire system shutdown, the door will rotate 180 degrees putting the appliance in the hidden or stored position. The standard unit shall be a white powder coat finish, and can be custom finished by factory, or in the field, using paint, wallpaper or appliqué. The unit shall fit in a standard stud wall, and back boxes shall be available

The unit shall interface seamlessly with any fire system and shall not affect or interfere with any diagnostic routines of the fire system. The unit shall be in conformance with NFPA 72 (National Fire Alarm Code).

CONTINUOUS NORMAL POWER SYSTEM

The unit shall include door position monitoring system. The door position monitoring system shall provide for remote monitoring of the door position in both closed door normal power mode position and extended open door alarm mode positions. Normally open (NO) and normally closed (NC) dry contacts shall be provided for remote door monitoring position indications branch circuit system input.

The unit shall provide dedicated remote supervision directly to the factory mounted fire alarm devices within the unit. The unit shall include input and output terminations directly to fire alarm with supervision features within the unit. The dedicated direct supervision continuity shall provide connection to the fire alarm panel system inline branch circuit loop continuity from the internal fire alarm devices with supervision feature within the unit. Removal of the internally mounted fire alarm device terminations with supervision features within the unit shall be designed to indicate an open condition and trouble condition notification for indication through interface with the operating fire alarm panel system.

Device Type	Color	Application	Part Number
Speaker Strobe	Red	Ceiling	FAFX-C-ELSPSTRC-NP
Speaker Strobe	White	Ceiling	FAFX-C-ELSPSTWC-NP
Speaker Strobe	Red, High CD	Ceiling	FAFX-C-ELSPSTRC-NP
Speaker Strobe	White, High CD	Ceiling	FAFX-C-ELSPSTWC-NP
Speaker Only	White	Ceiling	FAFX-C-ELSPKWC-NP
Horn Only	White	Ceiling	FAFX-C-ELHNWC-NP
Horn Strobe	Red	Ceiling	FAFX-C-ELHSRC-NP
Horn Strobe	White	Ceiling	FAFX-C-ELHSWC-NP
Strobe Only	Red	Ceiling	FAFX-C-ELSTRC-NP
Strobe Only	White	Ceiling	FAFX-C-ELSTWC-NP

NP - Continuous Normal Power System (NP). Refer to Technical Data Sheet For Power Requirements.
FMS - Flush Mounting System, gypsum board walls and ceiling applications.

Conceal-Alarm Series

NP- Normal Power System, Continuous Power System



ETL listed to UL standards UL1971, UL1480, UL464

Fixture Models

FA100-NP

FA900-NP

FAFX-NP



Operation Cycle (NP)

Normal Power System (NP) option returns the device in the concealed position. When the fire alarm system is activated the door is released to rotate the door and the fire alarm device to the exposed position. Simultaneously providing fire alarm system power to activate the fire alarm device. Upon deactivation of the fire alarm system the door drive system automatically returns the device to the concealed position by continuous fire alarm panel power circuit.

Wiring Needs

Conceal-Alarm units use standard wiring practices, comparable to any alarm system. No additional wiring is necessary.

Appliance Application

Conceal-Alarm utilizes Wheelock UL Listed fire alarm appliances, i.e., speaker, speaker strobes, horns and horn/strobe combination units that operate with any fire system.

- All Conceal-Alarm units come fitted with a factory fitted wheelock UL listed appliance. Appliances cannot be installed in the field.

SPEAKER WATTAGE & VOLTAGE SETTINGS

Position	25V	70V
A	2 WATT	
B	1 WATT	
C	1/2 WATT	
D	1/4 WATT	2 WATT
E	1/8 WATT	1 WATT
F		1/2 WATT
G		1/4 WATT
H		1/8 WATT

Strobes

Strobes are available in wall and ceiling mount. Candela rating must be specified prior to manufacture. Due to concerns that strobe lights flashing at various times in the same area can trigger health problems, the Conceal-Alarm units are compatible with standard fire system synchronous modules, which cause the strobes to pulse at the same time.

Horns

The horn portion of the appliance can be set to provide either Continuous Horn or Code 3 Horn. The sound output can be set for High (HI) or Low (LO) dBA. Conceal-Alarm units with the horn feature are shipped with the default settings from the appliance manufacturer, unless requested otherwise.

Speakers

Speakers may operate with a public address system for use by the fire department, as well as automated messages during emergency situations.

Back Box Applications

The Conceal-Alarm can be installed in various back boxes depending on the specific requirements. The following back boxes are available:

R1 Use in new construction applications. (FA100)

FA-900 Back Box Use in standard new construction application. (FA900)

RB Use in retrofit applications (FA100)

FA-900-RB Use in retrofit applications (FA900)

FAFX-BB Standard new construction (FX)

FAFX-RB Use in retrofit applications (FX)

SM For surface mount installation (FA100 only)

Finish

The standard Conceal-Alarm trim and door are white powder coat. Please contact factory for custom finishes options.

Electrical Requirements

The table below will assist in planning voltage requirements for fire alarm systems:

Model	Voltage	Current Draw (mAmps)*
FA	16 VDC	600
FA	24 VDC	600
FA	33 VDC	600
FA	16 vFWR	600
FA	24 vFWR	600
FA	33 vFWR	600

*To determine total voltage requirements, select the proper current draw for the Conceal-Alarm from the table above and add the current draw requirements specified by the manufacturer of the appliance to be used within the Conceal-Alarm fixture.

Draw Requirements

Current draw requirements are available on the cut sheet for the device or on the web site of the manufacturer. Information can be viewed at:

Cooper Wheelock

www.cooperwheelock.com

Candela Settings

Wall: 15-30-75-110-135-185
FOR SSPK-HCD 135 OR 185
Ceiling: 15-30-75-95-115 or 177
FOR SSPK HCD 115 OR 177

Limited Warranty

All Concealite equipment is guaranteed against defects in materials and workmanship by the manufacturer for a period of three years from date of shipment under normal operations and proper use. Correction of all defects shall be by replacement or repair (at our discretion) and shall constitute fulfillment of all manufacturer's obligations.

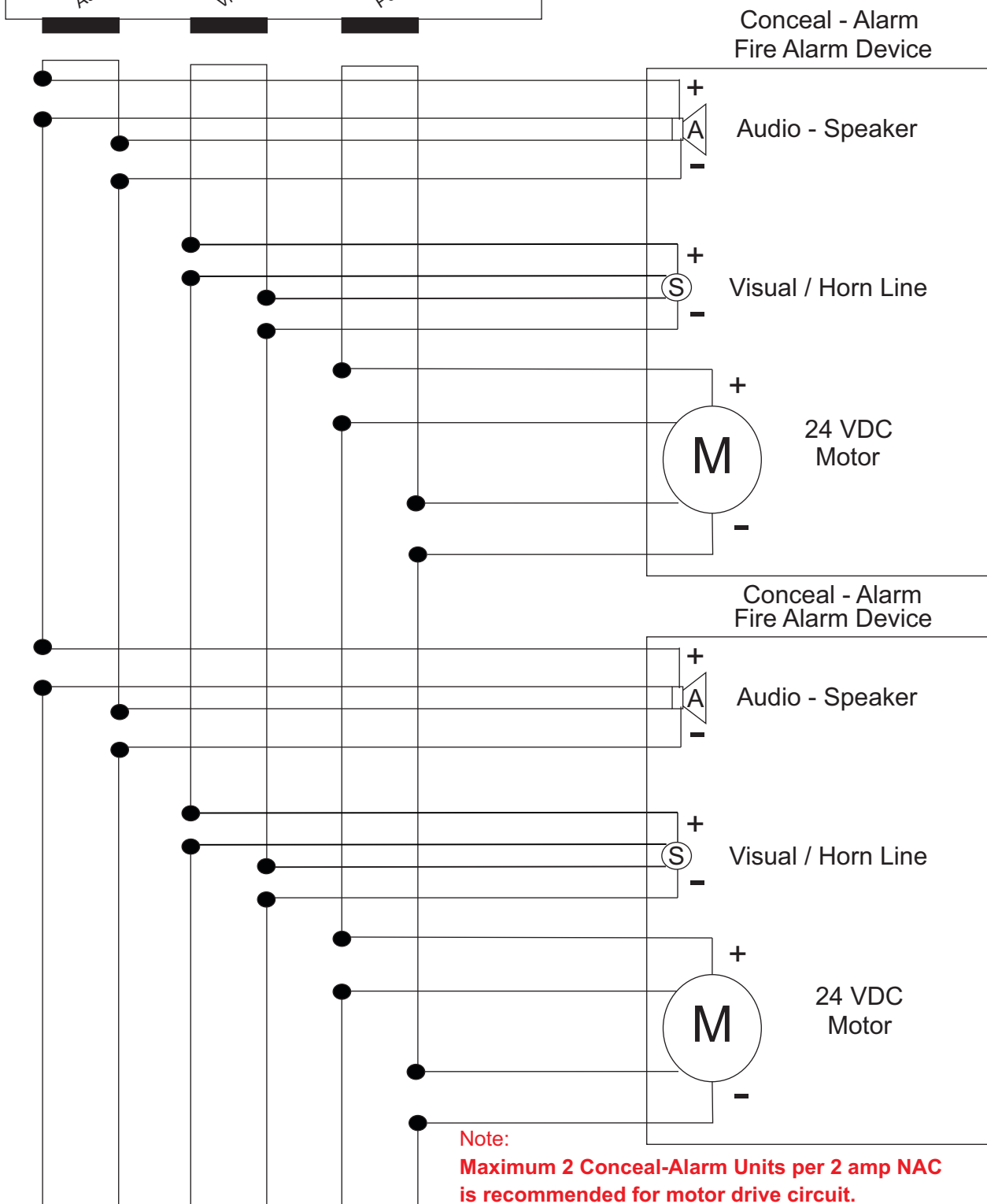
Fire Alarm Panel

Audio - Speaker

Visual - Horn

Motor Drive
Power Supply 24 VDC

Multiple Device Wiring Diagram

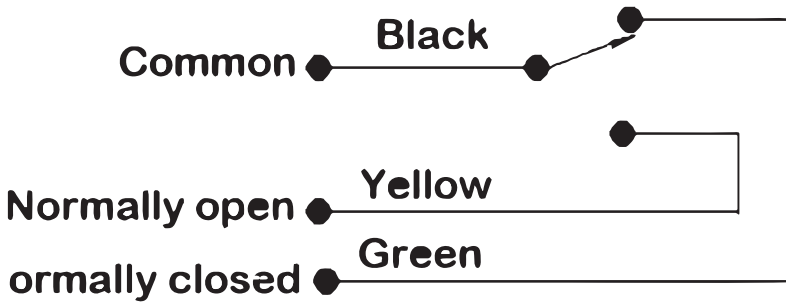


Note:

Route to fire alarm control system appliance
branch circuit power supply to be powered

Motor Drive Power System

Conceal-Alarm Unit-Door Position Supervisory System



Note: Door Position Supervisory limit switch is shown in normal Mode / closed door position. Contacts reverse position when in alarm mode / open door position.

Note:

Please choose the appropriate wires to attach to the leads provided from the fire alarm panel. All units will utilize a minimum 18 ga Red and Black for the motor. Use a minimum 22 ga Red and Black for a strobe or horn/strobe. A minimum 22 ga Yellow and Green for a speaker only and minimum 22 ga leads are required for a speaker/strobe.

The unit shall include door position monitoring system. The door position monitoring system shall provide for remote monitoring of the door position in both closed door normal power mode position and extended open door alarm mode positions. Normally open (NO) and normally closed (NC) dry contacts shall be provided for remote door monitoring position indications branch circuit system input.

The unit shall provide dedicated remote supervision directly to the factory mounted fire alarm devices within the unit. The unit shall include input and output terminations directly to fire alarm devices with supervision features within the unit. The dedicated direct supervision continuity shall provide connection to the fire alarm panel system inline branch circuit loop continuity from the internal fire alarm devices with supervision feature within the unit. Removal of the internally mounted fire alarm device terminations with supervision features within the unit shall be designed to indicate an open condition and trouble condition notification for indication through interface with the operating fire alarm panel system.

Concealite Life Safety Products