

# Informer100™ Speaker Models I-IP100ACX and I-IP100DCX

IP-Enabled High-Powered Indoor/Outdoor Speaker  
For use in hazardous locations



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## ***Description, Specifications, and Installation Manual***

## Limited Warranty

This product is subject to and covered by a limited warranty, a copy of which can be found at [www.fedsig.com/SSG-Warranty](http://www.fedsig.com/SSG-Warranty). A copy of this limited warranty can also be obtained by written request to Federal Signal Corporation, 2645 Federal Signal Drive, University Park, IL 60484, email to [info@fedsig.com](mailto:info@fedsig.com) or call +1 708-534-3400.

This limited warranty is in lieu of all other warranties, express or implied, contractual or statutory, including, but not limited to the warranty of merchantability, warranty of fitness for a particular purpose and any warranty against failure of its essential purpose.



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## **Safety Messages**

### **⚠ WARNING**

It is important to follow all instructions shipped with this product. This device is to be installed by trained personnel who are thoroughly familiar with the country electric codes and will follow these guidelines as well as local codes.

### **Planning**

- If suitable warning equipment is not selected, the installation site for the Informer100 Speaker is not selected properly or the Informer100 Speaker is not installed properly, it may not produce the intended optimum audible warning. Follow Federal Emergency Management Agency (FEMA) recommendations.
- If Informer100 Speakers are not activated in a timely manner when an emergency condition exists, they cannot provide the intended audible warning. It is imperative that knowledgeable people, who are provided with the necessary information, be available at all times to authorize activation.
- When Informer100 Speakers are used out of doors, people indoors may not be able to hear the warning signals. Separate warning devices or procedures may be needed to effectively warn people indoors.
- The sound output of Informer100 Speaker is capable of causing permanent hearing damage. To prevent excessive exposure, carefully plan placement, post warnings, and restrict access to areas near sirens.
- Activating the Informer100 Speaker may not result in people taking the desired actions if those to be warned are not properly trained about the meaning of warning sounds. Users should follow FEMA recommendations and instruct those to be warned of correct actions to be taken.

After installation, service, or maintenance, test the system to confirm that it is operating properly. Test the system regularly to confirm that it will be operational in an emergency.

## **Safety Messages to Installers**

People's lives depend on your safe installation of our products. It is important to follow all instructions shipped with this product. This device is to be installed by a trained electrician who is thoroughly familiar with the National Electrical Code and/or Canadian Electrical Code and will follow the NEC and/or CEC Guidelines as well as all local codes. NEPA70, Chapter 5, "Special Occupancies," must be followed. This Informer100 Speaker should be considered a part of the warning system and not the entire warning system.

The selection of the mounting location for this Informer100 Speaker, its controls and the routing of the wiring are to be accomplished under the direction of the Facilities Engineer and the Safety Engineer. In addition, listed below are some other important safety instructions and precautions you should follow:

- Electrocution or severe personal injury can occur when performing various installation and service functions such as making electrical connections, drilling holes, or lifting equipment. Therefore, only experienced electricians should install this product in accordance with national, state and any other electrical codes having jurisdiction. Perform all work under the direction of the installation or service crew safety foreman.
- Read and understand all instructions before installing, operating, or servicing this equipment.
- This product shall be mounted at the minimum hearing distance of ten feet in accordance with FEMA guidelines limiting sound level exposure to 123 dBc maximum sound level.
- All effective warning sounds may, in certain circumstances, cause permanent hearing loss. Take appropriate precautions such as wearing hearing protection. Maximum sound level exposure limits specified in OSHA 29 CFR 1910 should not be exceeded.
- These devices are intended for permanent installation and operation in accordance with Title 46, Code of Federal Regulations, Parts 110–113, or Title 33, Code of Federal Regulations, Part 183, Sub-part I, Section 183.410, and the applicable requirements of the American Boat and Yacht Council, Inc., and/or ANSI/NFPA 302, “Fire Protection Standard for Pleasure and Commercial Motor Craft.”
- For optimum sound distribution do not install this speaker where objects would block any portion of the front of the Informer100 Speaker.
- Do not paint the Informer100 Speaker. No finish or coating is required. Paint may obstruct the sound output, reducing the effectiveness of the horn.
- Establish a procedure to routinely check the signal system for proper activation and operation.
- Any maintenance to the unit **MUST** be performed by a trained electrician in accordance with NEC Guidelines and local codes or a Federal Signal certified Service Provider.
- Never alter the unit in any manner.
- The nameplate should **NOT** be obscured, as it contains cautionary and/or other information of importance to maintenance personnel.
- After installation and completion of initial system test, provide a copy of these instructions to all personnel responsible for operation, periodic testing, and maintenance of the equipment.
- File these instructions in a safe place and refer to them when maintaining and/or reinstalling the device.

- This equipment is suitable for use in Class I, Division 2, Groups A, B, C, D; Class II, Division 2, Groups F and G; Class III or nonhazardous locations only.
- Substitution of any components may impair suitability for Division 2.

**⚠ WARNING**

***EXPLOSION HAZARD: Do not disconnect the equipment unless power has been switched off or unless the area is known to be non-hazardous.***

***EXPLOSION HAZARD: Do not remove or replace fuse when energized.***

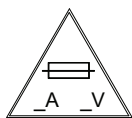
Failure to follow all safety precautions and instructions may result in property damage, serious injury, or death.

**Installation and Service**

- After installation or service, test the system to confirm that it is operating properly. Test the system regularly to confirm that it will be operational in an emergency.
- If future service and operating personnel do not have these instructions to refer to, the system may not provide the intended audible warning, and service personnel may be exposed to death, permanent hearing loss, or other bodily injury. File these instructions in a safe place and refer to them periodically. Give a copy of these instructions to new recruits and trainees. Also give a copy to anyone who is going to service or repair the Informer100 Speaker.
- To reduce the risk of electric shock, do not perform any servicing other than what is contained in the operating instructions unless you are qualified to do so. Refer all servicing to qualified service personnel. Always test the Informer100 Speaker before using after repairs have been made.

**Ethernet Wiring**

- Unless shielded or run in conduit, Ethernet wiring must be at least six feet from bare power wiring or lightning rods and associated wires, and at least six inches from other wire (for example, antenna wires, doorbell wires, wires from transformers to neon signs), steam or hot water pipes, and heating ducts.
- Do not place Ethernet wiring or connections in any conduit, outlet or junction box containing high voltage electrical wiring.
- If using a cable gland, gland must be Listed. The Informer100 Speaker has ¾ inch and ½ inch NPT entry sizes.

**Symbol Definition**

Indicates to reduce the risk of fire, replace fuse as marked.

Pay careful attention to the notice located on the equipment.

***Read and understand the information contained in this manual before attempting to install or service the siren.***

## **General Description**

### **Introduction**

The Informer100 Speaker is an indoor and outdoor IP-enabled 100-watt speaker that can be used in hazardous (classified) locations. Use the Informer100 as a warning and alert device with both audible and visual indicators. The audible capabilities include locally stored high-quality, high-powered tones and voice. The visual indicators include the use of message board/scrolling display sign support and strobes, lights and beacons. The Informer100 can be equipped with up to four local initiation devices (switches) to activate the unit locally and to the Commander controller for mass notification communications.

The Informer100 Speaker has an internal 100-watt amplifier/driver to deliver tone warnings and intelligible voice messages from Informer100 stored memory. The Informer100 also has several unique capabilities when working with the Federal Signal Commander software. Using Commander software, the Informer100 can play text-to-speech, stream WAV files or broadcast live PA. In addition, Commander software can perform a talk/listen to individual Informer100s to allow call-box type communications. The Informer100 also has remote volume control for optimizing sound levels across your alerting area. The remote volume control also includes an ambient noise monitoring capability to automatically adjust volume depending on external noise levels.

The Informer100 allows connection of up to four external switches to activate predefined alert events. The Informer100 can be programmed and configured as a standalone device to only use the inputs to activate the Informer100. This may be useful if the location has no network connectivity but where voice and tone alerts from locally activated inputs is required. The Informer100 can be networked later and the activations can be brought into the Commander system for full system capability. When the Informer100 is networked using the Commander software, alerts initiated at the Informer100 can be used to activate other devices. The Commander software system can also alert emergency personnel via email, SMS and handheld radios using optional messaging software.

The Informer100 includes two relay outputs for controlling strobes or other devices. The Informer100 has a ½-inch NPT opening on the top of the speaker for simple installation of pipe mount devices. The bottom of the speaker has three ¾-inch NPT openings to allow access to power, LAN, relay outputs, and activation inputs. The Commander system allows multiple configurations for activation of the relays during alerts.

The Informer100 is designed for outdoor use and large indoor structures. It can be powered from 120/240 Vac or 24 Vdc depending on the model purchased. All wiring interfaces are accessible via internal connectors and built-in NPT entrances for quick and easy installation.

The Informer100 comes with an adjustable stainless steel wall mount bracket that allows the angle of the speaker to be adjusted. Optional pole mount brackets are available for small and large diameter poles.



## Features

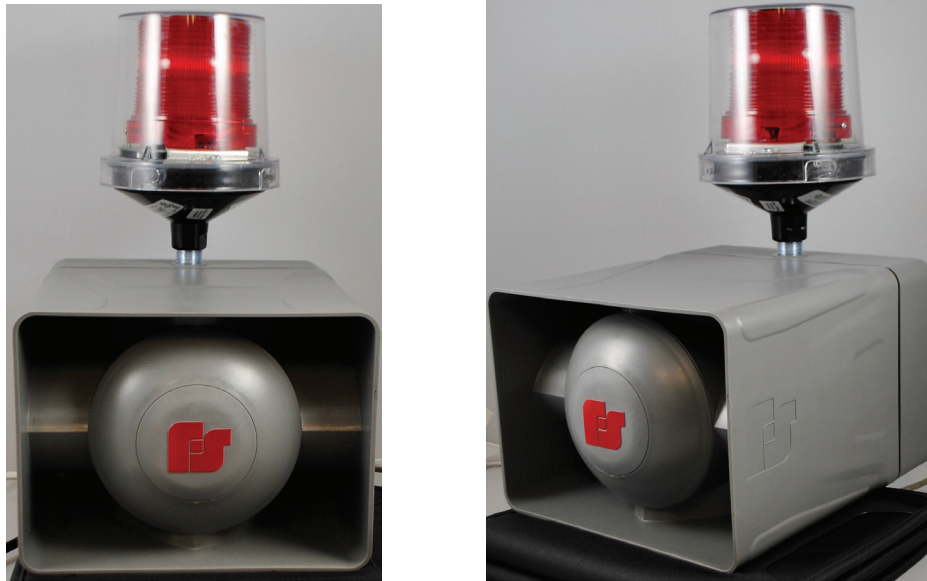
The Informer100 has the following features; some features require the use of the Commander software system:

- High-powered outdoor or indoor IP-enabled speaker for audible and visual alerts
- Speaker rated at 120 dBa for tones and 114.5 dBa for voice at 10 feet
- Seven standard built-in warning signals: Wail, Steady, Alternate Wail, Alternate Steady, Pulsed Wail, Pulsed Steady, Auxiliary Chime
- Broadcasts live voice, text-to-speech and prerecorded voice or tone files
- Deliver intelligible voice messages from locally pre-recorded files or through the Commander system
- Pre-recorded files: 250 messages with 15 minutes of recording time
- Ambient noise level monitoring with automatic volume control
- Each device can be individually configured for volume and noise-level adjustments
- Remote volume control for optimizing sound levels
- Speaker as microphone for talk back feature
- Alerts can be sent to single devices, groups or zones, or all devices
- Commander Software control and activation
- Wall or pole mount options
- Four local alarm initiation inputs to activate unit locally or standalone operation  
Momentary mode: contact closure sounds alarm for programmed duration.  
Continuous mode: sounds alarm for duration of closure.
- Two relay outputs to control strobes or other devices (See “Using Optional Visual Indicators” on page 23.)
- 120/240 Vac or 24 Vdc powered (two models)
- Wide outdoor temperature operating range
- Federal Signal Commander software provides full two-way control and status monitoring
- Allows remote software upgrades
- The Informer100 models are designed specifically for use in Class I, Division 2, Groups A, B, C, D; Class II, Division 2, Groups F and G; and Class III locations as defined in the National Electrical Code (NEC) ANSI/NFPA 70.

## Specifications

The following is a picture of the Informer100 Speaker shown with optional 225XL Warning Light.

**Figure 1 Informer100 Speaker with 255XL light**



## Specifications

**Table 1 Electrical**

Operating Voltages I-IP100ACX Switch-selectable 120 or 240 Vac	120 Vac nom, 50/60 Hz or 240 Vac nom, 50/60 Hz
Operating Current I-IP100ACX	120 Vac; 26 mA Standby, 1.50 A during a function 240 Vac; 21 mA Standby, 820 mA during a function
Operating Voltages I-IP100DCX	24 Vdc
Operating Current I-IP100DCX	24 Vdc; 100 mA Standby, 5.15 A during a function
Relay Outputs	2 A at 30 Vdc or 250 Vac, 25 A max inrush, N.O. dry contacts
Ethernet Port	IEEE 802.3, 10/100 Base-T connection
Alarm Initiating Inputs	Four optically Isolated Inputs Dry Contact closure < 1 kilohm <b>NOTE:</b> The four optically isolated Alarm Initiation Inputs allow remote activation of tones and messages through a volt-free, dry-contact closure. The momentary contact closure must be a minimum of 500 ms.
Audio Storage	Warning siren audio, seven factory installed tones: Wail, Steady, Alternate Wail, Alternate Steady, Pulsed Wail, Pulsed Steady, Auxiliary Chime Prerecorded files—up to 250 messages with up to 15 minutes of recording time
Audio Data	8 bit 8 kHz mono WAV
Audio Frequency response	300 Hz to 3000 Hz, +1 to -3 dB per octave
Maximum Audio Output	100 watts, 120 dBa tones/114.5 dBa for voice at 10 feet

The following indicators are for troubleshooting purposes only. These indicators are not visible when the unit is closed.

**Table 2 Visual Indications (Located on internal control board.)**

POWER	Green LED turns on when power is connected. D5
ISOLATED POWER	Green LED turns on when Isolated power for inputs and relay outputs is functioning. D6
CPU	Flashing RED LED indicates the CPU is running its program. D18
NETWORK	Green LED turns on when unit has made a connection to the network. D27
LISTEN	Red LED turns on when Commander is listening. Unit is sending audio to Commander. D25
TALK	Green LED turns on when Commander is talking. Unit is playing audio being sent. D26
AMPOUTPUT VOLTAGE	Green LED turns on when amplifier is active. Brightness indicates level of amplifier output. D2
AMPLIFIER OUTPUT CURRENT	Green LED turns on when amplifier is active. Brightness indicates level of amplifier output. D8
ACTIVATION INPUT #1	Red LED turns on when Activation input #1 is being activated. D12
ACTIVATION INPUT #2	Red LED turns on when Activation input #2 is being activated. D14
ACTIVATION INPUT #3	Red LED turns on when Activation input #3 is being activated. D16
ACTIVATION INPUT #4	Red LED turns on when Activation input #4 is being activated. D17

**Table 3 Connectors and Jacks (Control board connectors)**

JP2	Serial Port for factory approved programming or for message board display
JP3 Pin Jack	Short pins 1 and 2 for standalone mode
JP4 Relay Outputs	1 and 2 Relay 1 Normally Open 3 and 4 Relay 2 Normally Open
JP5 Initiation inputs	1 and 2 – ISO Ground/Input 1 3 and 4 – ISO Ground/Input 2 5 and 6 – ISO Ground/Input 3 7 and 8 – ISO Ground/Input 4
	<b>NOTE:</b> JP6, JP7, JP8 and JP9 are physically connected to provide a distribution of AC or DC power. The combined load of all power should not exceed 8 amperes AC/DC, 25 A max inrush
JP6 and JP7 AC/DC Power Distribution	1 – L1/Hot/(+) 24 Vdc 2 – L2/Neutral/(-) 24 Vdc Gnd 3 – Earth Ground
JP8 Input for AC/DC Power Distribution	1 – L1/Hot/(+) 24 Vdc 2 – L2/Neutral/(-) 24 Vdc Gnd 3 – Earth Ground

JP9	Reserved for factory testing
JP10	Reserved for factory testing
JP11	Short to restore factory default settings

**Table 4 Environmental and Physical**

Operating temp range	-40°F to +104°F (-40°C to +40°C)
Humidity range	0-95%, non-condensing
Size (Height x Width x Length)	7 x 9 x 10 inches (178 x 229 x 254 mm)
Weight	
I-IP100DCX	16.2 lb (7.35 kg)
I-IP100ACX	19.2 lb (8.71 kg)

**Table 5 Hazardous Location Ratings**

T-CODE AT 40°C	
CLASS I, DIV 2, GRPS A,B,C,D	T5
CLASS II, DIV 2, GRPS F,G	T6
CLASS III	T6

## Installation

### **⚠ WARNING**

***Read and adhere to all safety warnings in this manual before installing the Informer100 Speaker.***

### **⚠ DANGER**

***Electrocution or severe personal injury can occur when making electrical connections, drilling holes, or lifting equipment. Therefore, experienced electricians, in accordance with national and local electrical codes, acting under the direction of the installation crew safety foreman, should perform installation.***

## Determine a Suitable Location

The Informer100 can be mounted on any relatively flat surface with the supplied mounting brackets. The mounting surface must be capable of supporting the weight of the speaker. This equipment is suitable for use in Class I, Division 2, Groups A, B, C, D; Class II, Division 2, Groups F and G; Class III or nonhazardous locations only.

## **Wall Mounting**

The Informer100 Speaker comes standard with a bracket for vertical wall or pole mount with optional pole accessories. The standard mount can be flipped to allow ceiling mount.

To wall mount the Informer100 Speaker, do the following:

1. Find suitable location to mount speaker. Use industry or company preferred practices when mounting hardware to structures.
2. Verify the mounting is adequate to hold the weight of speaker, cables and visual devices, if equipped.
3. Refer to Figure 3 or use the U-shaped wall bracket as a template to scribe the mounting hole locations.
4. Mount the Informer100 Speaker to the mounting surface with user-supplied hardware. Federal Signal recommends 3/8 inch fasteners.
5. Loosen the pivot bolts to provide the direction of the speaker.

## **Attaching the Mounting Brackets to the Speaker Housing**

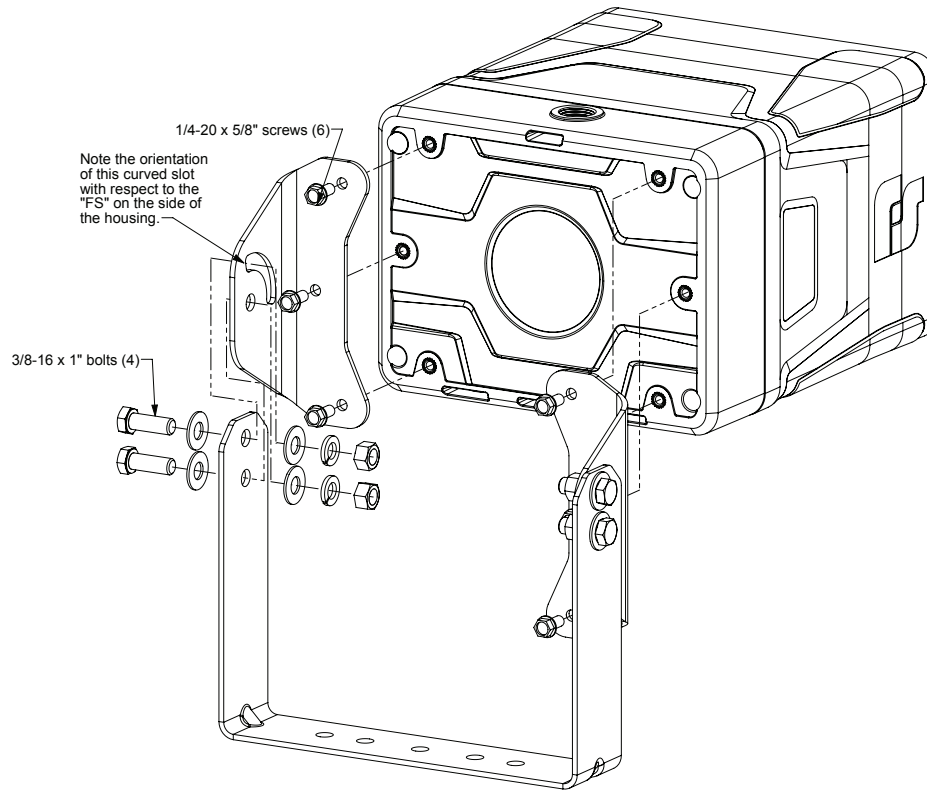
Do the following to attach the brackets:

1. The mounting brackets are attached to the speaker as shown below using the six supplied 1/4-20 x 5/8 inch screws.

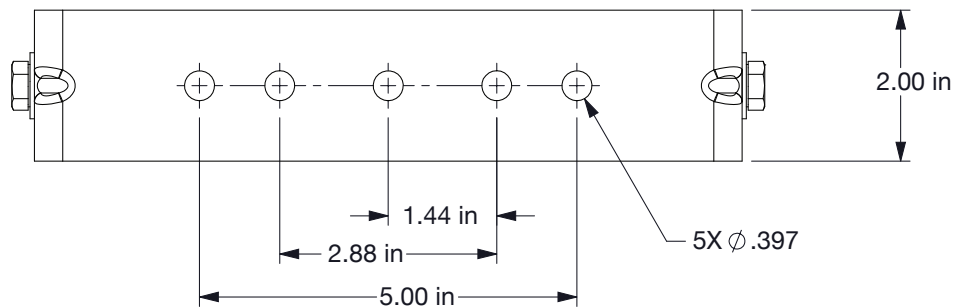
Note the orientation of the curved slots on the L-shaped brackets, this orientation is important to allow the speaker to be pivoted downward.

2. Tighten the 1/4-20 x 5/8 inch screws to approximately 80 in-lb.
3. Attach the U-shaped wall bracket with four supplied sets of 3/8-16 x 1 inch bolts, flat washers, lock washers, and nuts.

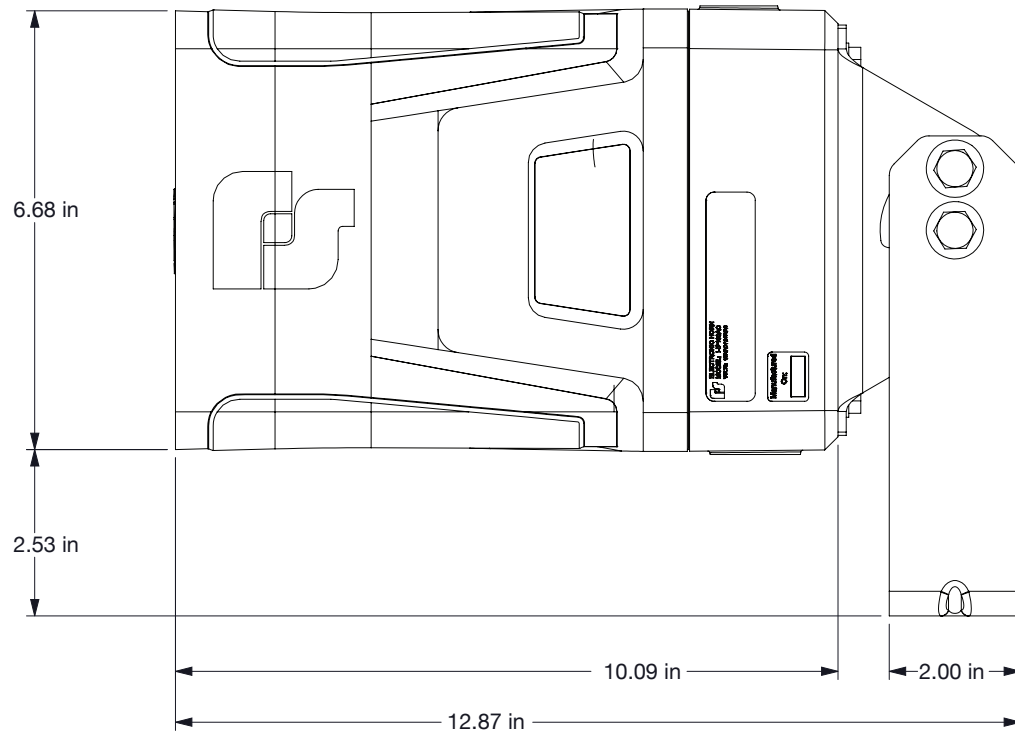
**Figure 2 Bracket attached to speaker**



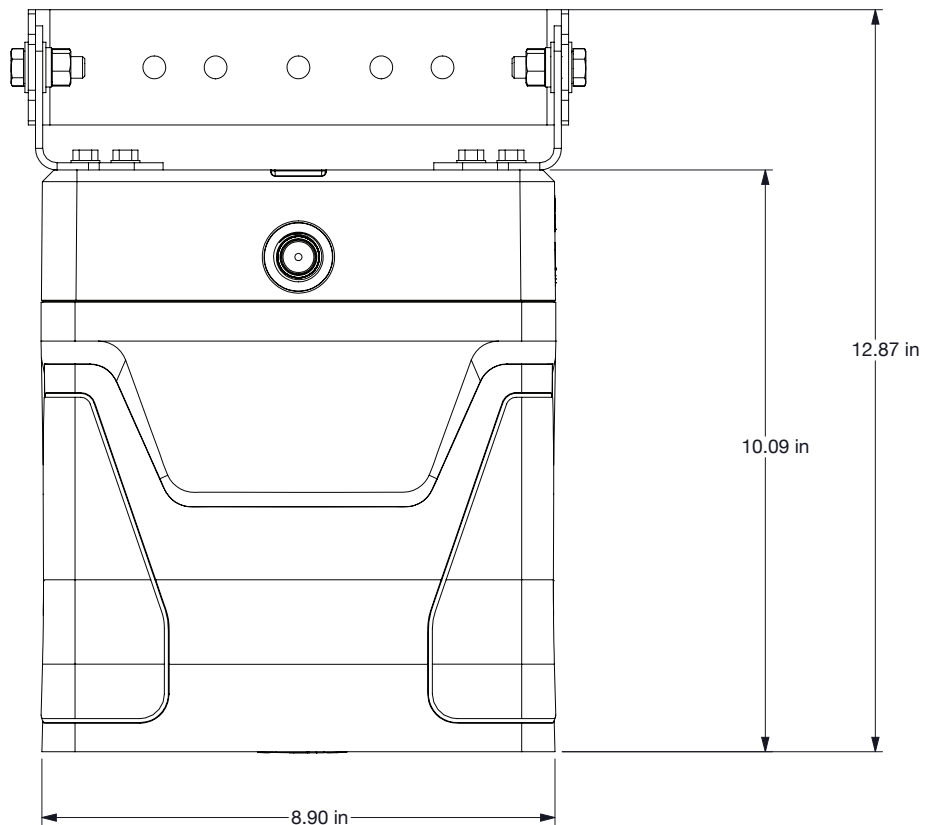
**Figure 3 Width and height of bracket**



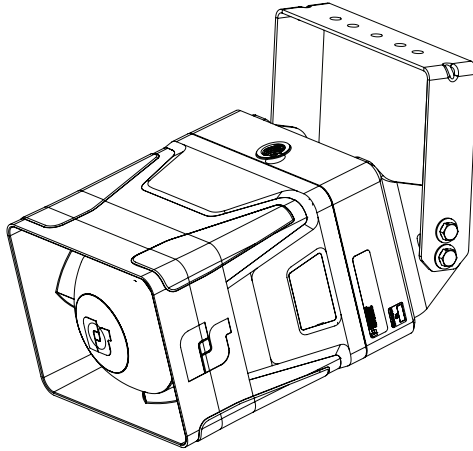
**Figure 4 Depth and height with bracket**



**Figure 5 Top view of speaker**



**Figure 6 Ceiling mount**



### Pole Mounting

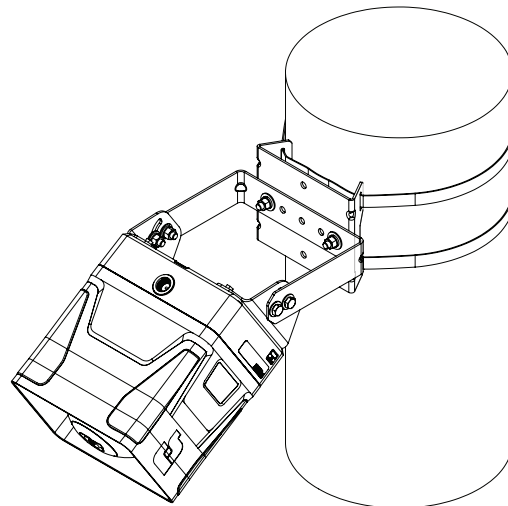
The Informer100 comes standard with a bracket for vertical wall or pole mount with optional pole accessories.

#### Large Pole Mounting (6 in diameter or larger)

Use the following procedure if mounting the speaker with the optional I-IP100-PMW bracket:

1. Find suitable location to mount speaker. Use industry or company preferred practices when mounting hardware to poles or other structures.
2. Attach the I-IP100-PMW bracket to the pole using banding or use the pre-drilled holes to bolt the bracket to the pole or structure.
3. Using the supplied flat washers, lock washers, and 3/8 inch nuts, mount the speaker to the I-IP100-PMW bracket as shown in Figure 2.
4. Use the side pivot bolts to allow adjustment of the speaker up and down to optimize speaker effectiveness.

**Figure 7 Bracket I-IP100-PMW**



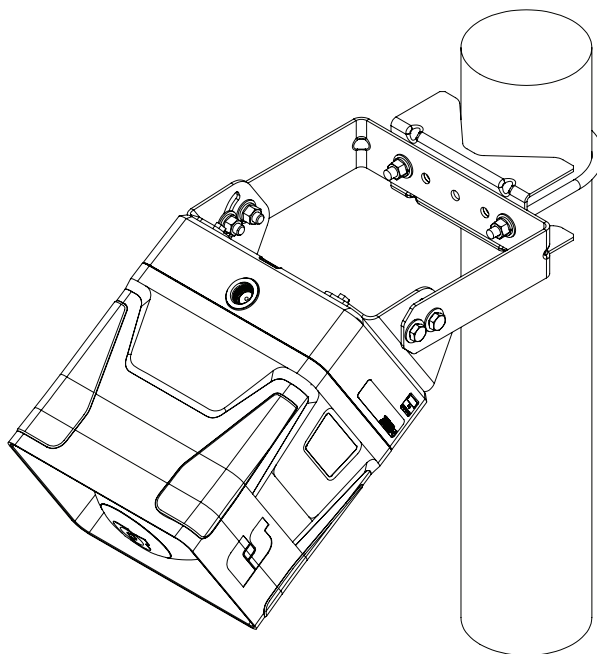
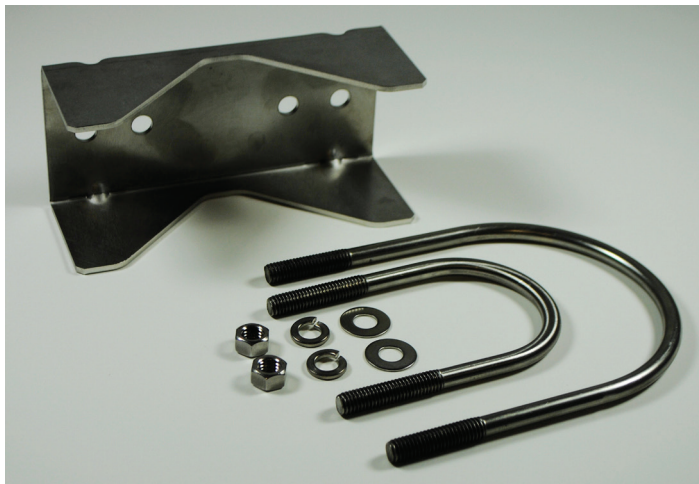


**Small Pole Mounting (2-3/8 in or 4-1/2 in diameter poles)**

Use the following procedure if mounting the speaker with the optional I-IP100-PM bracket:

1. Find suitable location to mount speaker. Use industry or company preferred practices when mounting hardware to poles or other structures.
2. Remove the speaker U shaped bracket, store the pivot/lock bolts.
3. Select the proper I-IP100-PM U-bolt for the pole.
4. Attach the U-shaped bracket from the speaker to the pole using the I-IP100-PM U-bolt, bracket, nuts and washers.
5. Attach the speaker and set direction using the pivot and lock bolts.

**Figure 8 Bracket I-IP100-PM**



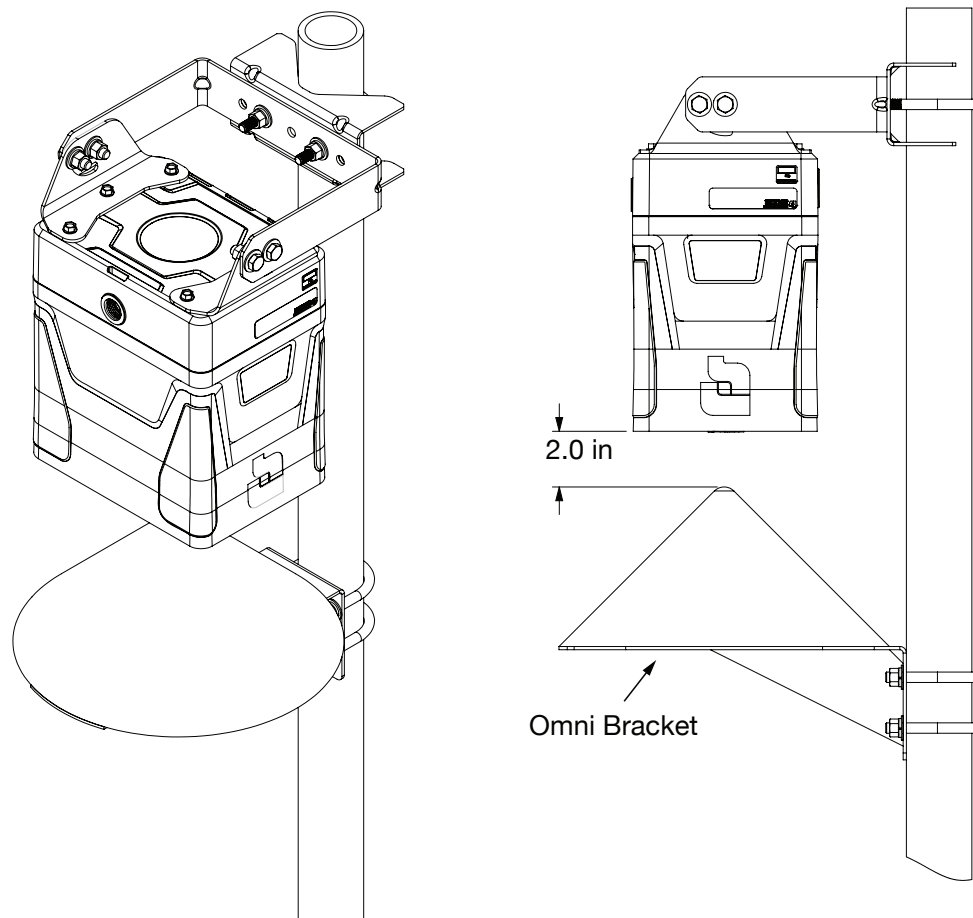
### Mounting with Omni Direction Bracket (2-3/8 in diameter pole)

Use the I-IP100-OMNI bracket to create an omni-directional speaker. The speaker is mounted as described in the Small Pole Mount section with the omni bracket mounted at a distance of 2.0 inches from the speaker.

Use the following procedure if mounting the speaker with the optional I-IP100-OMNI bracket:

1. Identify location for bracket.
2. Attach bracket using supplied U-bolts and hardware.

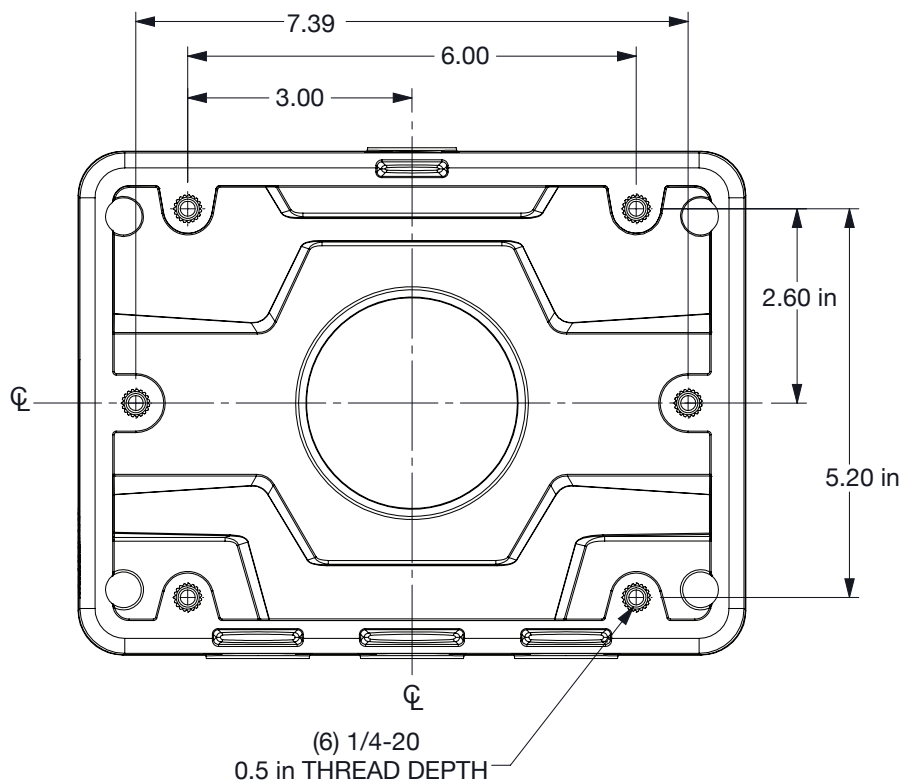
**Figure 9 Bracket I-IP100-OMNI**



## Mounting without Bracket

You can mount the speaker directly to the mounting surface without the bracket. Use installer-supplied 1/4-20 fasteners that are suitable for the mounting surface. Use Figure 10 for the hole center dimensions.

**Figure 10 Surface mount hole center dimensions**



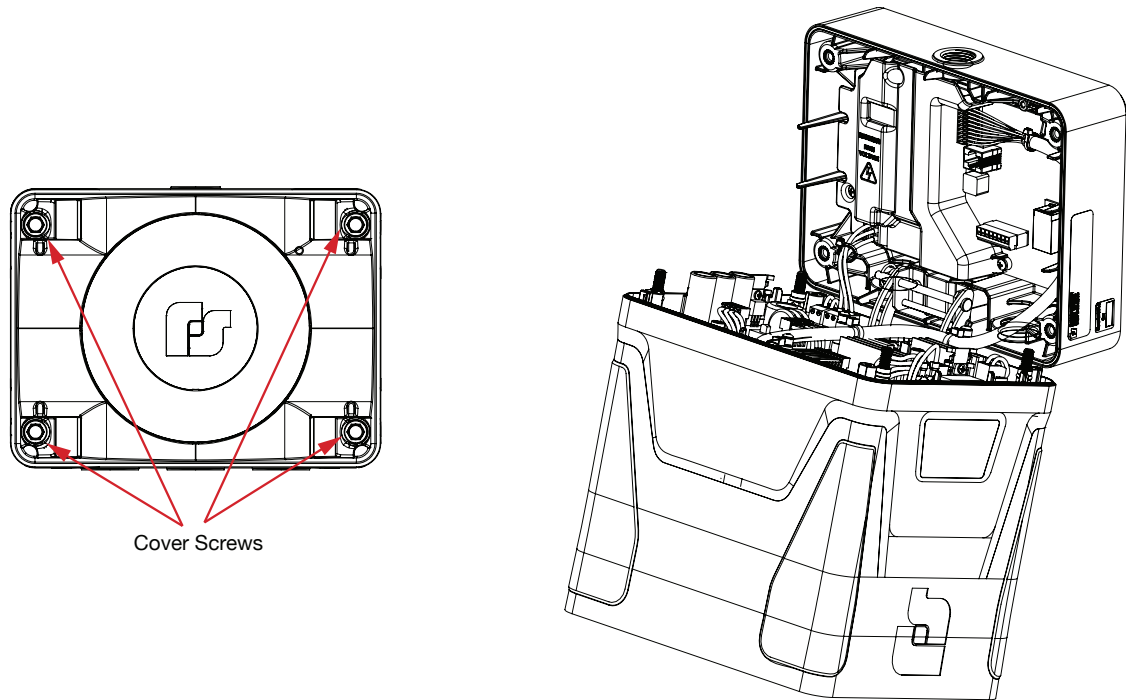
## Opening the Housing

### Tools required:

3/8-inch socket

6-inch extension

To open the housing, loosen the four cover screws while supporting the housing so it does not fall. (The cover screws are retained in the housing.) The front of the unit is heavy, but it is attached to the rear housing with a pivot hinge to allow ease of service. If the unit requires service, replace the front housing, amplifier, and power supply (if equipped) as an entire unit.

**Figure 11 Opening speaker**

### **Wiring Power to the Control Board**

JP6, JP7, JP8 and JP9 are all connected in parallel. Federal Signal recommends using JP8 as the AC or DC input to allow room for wires coming in from the 3/4" NPT opening. When power is supplied to JP8, it is connected through the PCB to the other three connectors. If a connector is not being used, it is recommended to leave the connector on the PCB. With I-IP100ACX units, JP9 is wired from the factory to the power supply PCB. With the I-IP100DCX units, JP9 is wired to the amplifier PCB. Use JP6 and JP7 to wire external lights or strobes through JP4, which is a normally open relay. Typical installation would use voltage to be wired through the JP4 relays contacts.

**NOTE:** Current draw from JP6, JP7, and JP4 must not exceed 8.5 ampere AC or 5.0 ampere DC Max Combined Load.

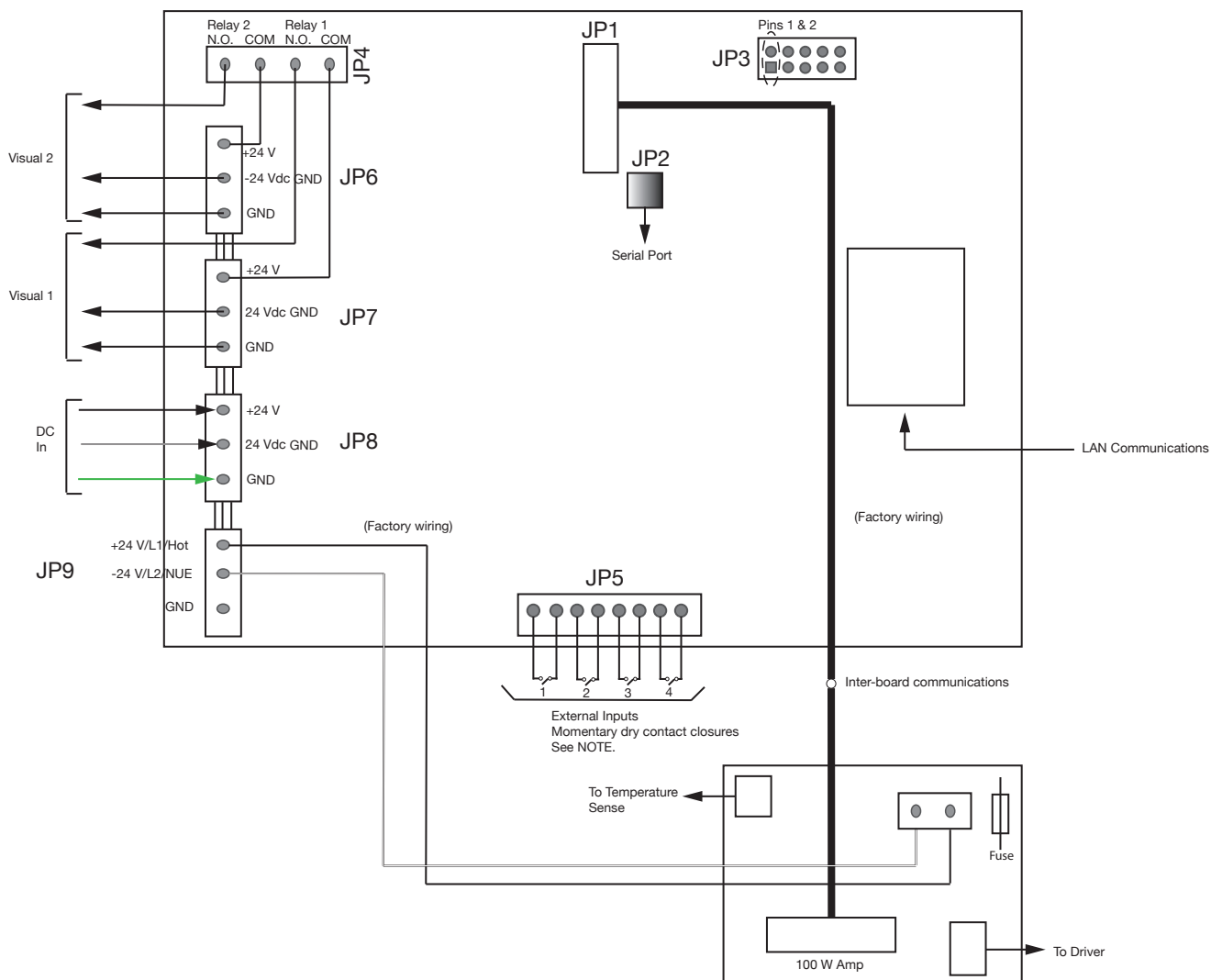
#### **I-IP100DCX 24Vdc Model**

(+) 24 Vdc is connected to JP8 terminal 1 (24 Vdc).

24 Vdc GND is connected to JP8 terminal 2 (24 Vdc GND).

Earth Ground is connected to JP8 terminal 3 (GND).

Figure 12 DC Controller Board



### I-IP100ACX 120/240Vac Model

120 Vac—Hot is connected to JP8 terminal 1 (L1/Hot).

120 Vac—Neutral is connected to JP8 terminal 2 (L2/Neutral).

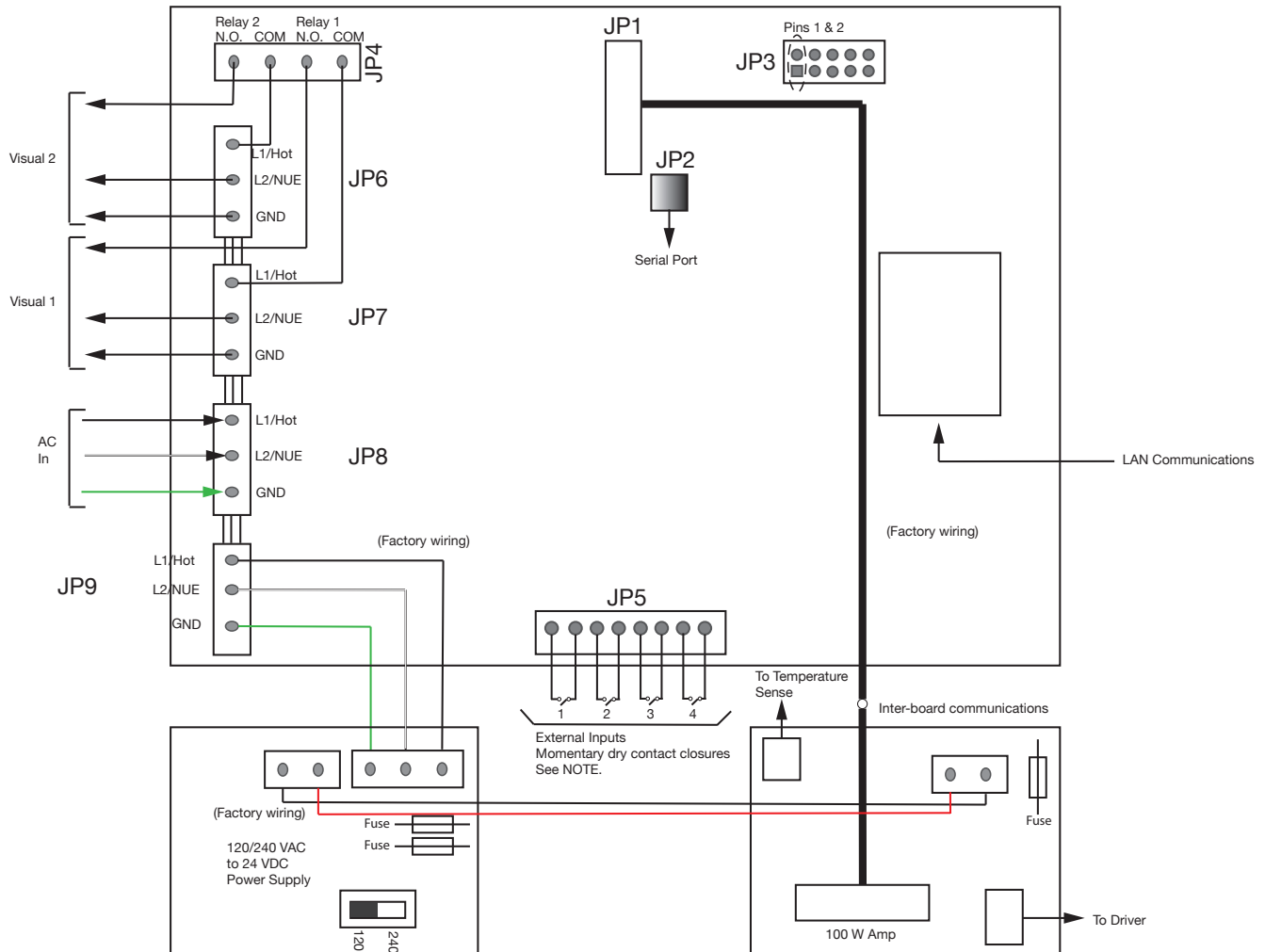
Earth Ground is connected to JP8 terminal 3 (GND).

240 Vac—L1 is connected to JP8 terminal 1 (L1/Hot).

240 Vac—L2 is connected to JP8 terminal 2 (L2/Neutral).

Earth Ground is connected to JP8 terminal 3 (GND).

Figure 13 AC Controller Board



## Wiring to the Relay Outputs

JP4 - Relay Outputs

1 & 2 Normally Open

3 & 4 Normally Open

## Wiring to the Alarm Initiation Input Connections

The Alarm Initiation Inputs are activated by shorting the input to the ISO-GND next to it, usually through a normally open switch or normally open dry relay contact.

**NOTE:** Momentary mode: contact closure sounds alarm for typical programmed duration. Continuous mode: sounds alarm for duration of closure. The system can also be configured to allow activation from normally closed contacts.

## JP5 - Alarm Initiation Inputs

1 - ISO-GND

2 - Input #1

3 - ISO-GND

4 - Input #2

5 - ISO-GND

6 - Input #3

7 - ISO-GND

8 - Input #4

## Using Optional Visual Indicators

The I-IP100ACX and I-IP100DCX units contains two relays for activating external visual indicators. Tables 6 and 7 below are common Federal Signal strobes and LED indicators that you can use with the I-IP100ACX and I-IP100DCX units. “Figure 14 225XST-I/225XL Strobe with Informer100 Speaker” on page 24 illustrates the optional visual indicators to use with the I-IP100ACX and I-IP100DCX units.

**Table 6 I-IP100DCX Visual Alerts**

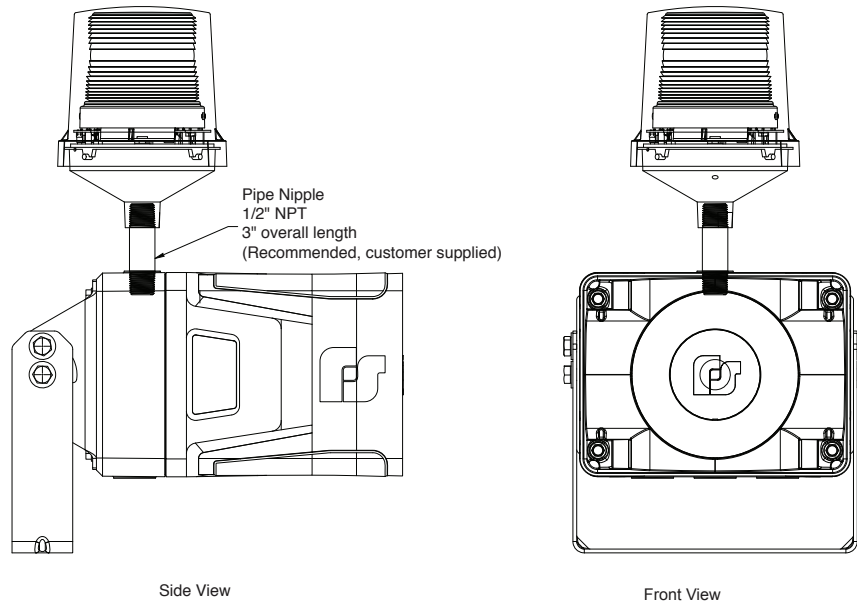
Visual Type	Strobe	LED
Model Number	225XST-I-024_*	225XL-024_*
Mount	1/2" NPT	1/2" NPT

**Table 7 I-IP100ACX Visual Alerts**

Visual Type	LED
Model Number	
120 Vac Operation	225XL-120-240_*
240 Vac Operation	225XL-120-240_*
Mount	1/2" NPT

\* Indicates color: (A) Amber, (B) Blue, (C) Clear, (G) Green or (R) Red

**Figure 14 225XST-I/225XL Strobe with Informer100 Speaker**



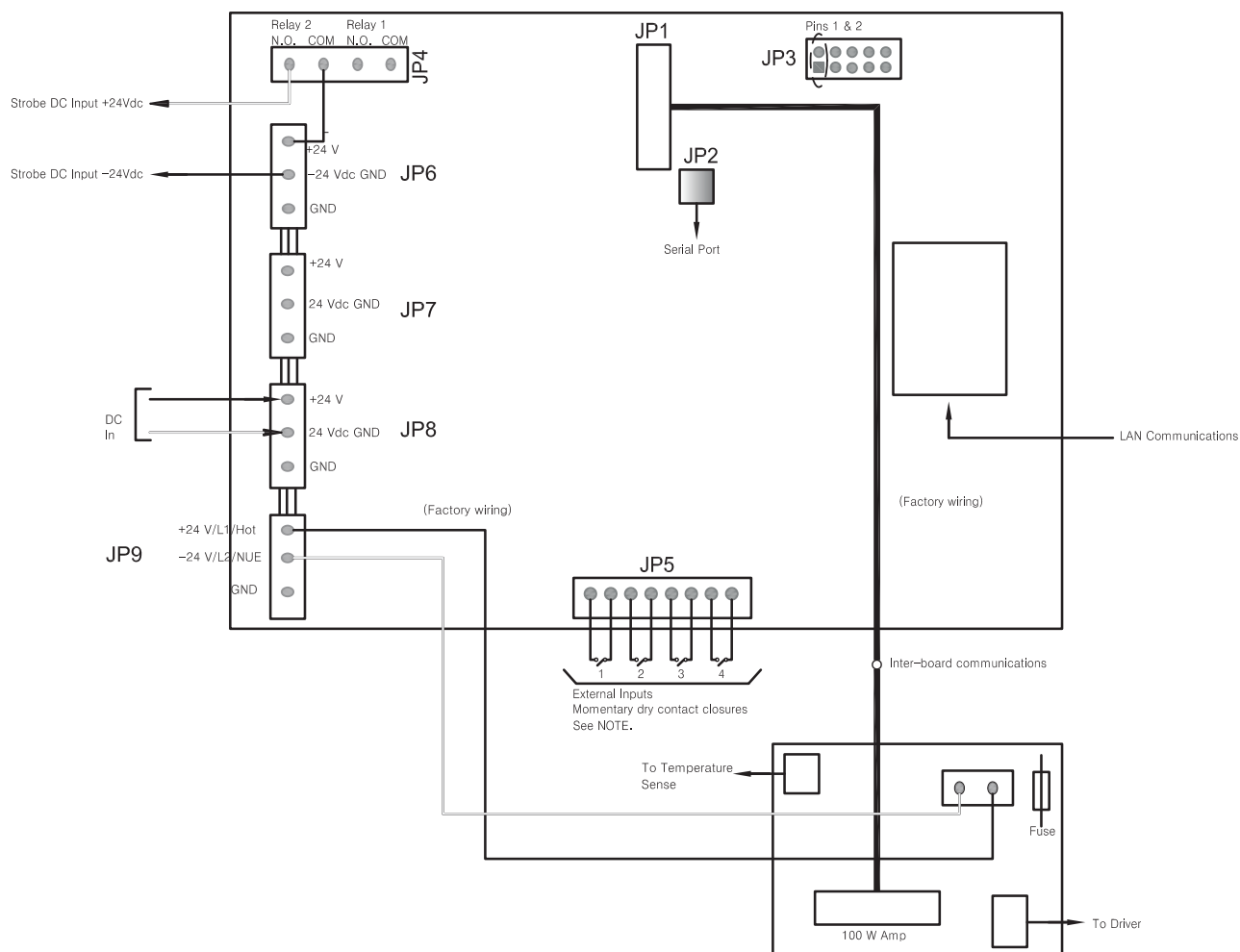
For a 225XST-I/225XL Strobe, the following is recommended (customer supplied):

- 1/2-inch NPT Pipe Nipple (3 inches overall length)

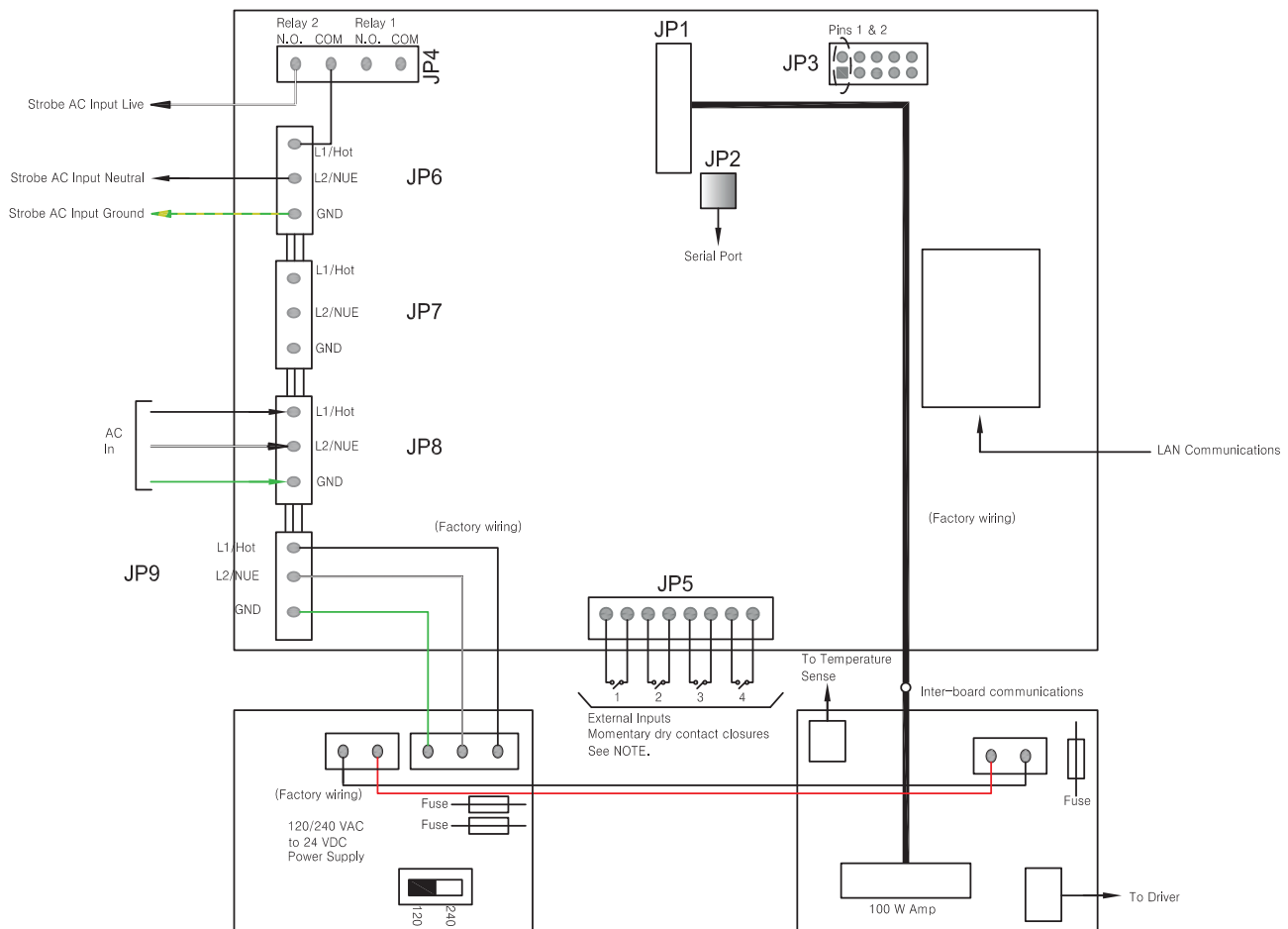


The following figures illustrate the electrical connections with the resistor. The programming is for Relay 2.

**Figure 15 DC Controller Board with optional Strobe**



**Figure 16 AC Controller Board with optional Strobe**



## Ethernet Port

The Informer100 Speaker has an 8 pin Ethernet port for connecting to the network. Ethernet wire runs must be less than 328 feet from the nearest network switch. Do not install in a conduit carrying high voltage. The wired Ethernet port auto-negotiates a 10/100, full or half duplex connection.

## Putting the Informer100 Speaker into Standalone Mode

Standalone mode allows the Informer100 Speaker to be activated from the Alarm Initiation Inputs without being connected to a network. The Informer100 requires setup prior to placing into standalone mode. All configuration should be performed prior to installing. Once the unit is configured and tested, place a shorting jumper across pins 1 and 2 of JP3. To configure the Informer100 Speaker, use Commander software version 14.9.0 or later. See the *Informer Setup and Programming Manual*.

## Relay Outputs

The Informer100 Speaker has two independently programmable relay outputs. The relay timing is configured and programmed into the Informer100 Speaker from the Commander user interface.

The relay outputs are capable of controlling external devices. The normally open outputs are located at pins 1 & 2 and pins 3 & 4 of the removable output connector JP4 on the controller board. The outputs can be wired in series with the power wired into the unit by using the power connections available on JP6 and JP7, providing switched AC or DC power to activate other devices.

Do not exceed the voltage and current ratings listed in the specifications section of this manual. When using this feature, the relay outputs turn on until one of the following occurs:

- Until the programmed default timeout occurs
- Until the CANCEL or RESET command is received

You can individually configure the relay outputs to open, close, and cycle based on a pre-programmed sequence. Relays can also be configured to turn on when PA VOIP is active. Refer to *Informer-IP Setup, Program, and User Manual* for programming your Informer.

## Closing the Housing

To close the housing, do the following:

1. Verify that the cover gasket is in the groove around the perimeter of the rear cover.
2. If the front of the unit was removed, lift the front of the Informer100 to allow the hinge pin to be installed, align the front unit with the rear cover and attach the hinge pin with retaining clip.
3. Attach the cable between the amplifier and rear cover IP PCB. Secure the cable using the two screwdown cable ties inside the rear cover.
4. On IP-100ACX—Attach the power cable from the rear cover IP PCB to the power supply.  
On IP-100DCX—Attach the power cable from the rear cover IP PCB to the amplifier.
5. Turn on power to verify that the lights on the IP PCB are functioning. If the environment does not allow powering, proceed to next step.
6. Verify all connectors are seated. Also, verify wires are not strained and are not impeding ability to close unit.
7. Lift front of unit and seat the front cover against the rear enclosure.
8. Tighten the cover screws hand tight, and then torque them in alternate pattern to 60 in-lb +/- 10 in-lb.

### Ordering Replacement Parts

To order replacement parts, call Customer Care. See Getting Service.

**Table 8 Replacement Parts**

Description	Part Number
Service Kit, 20000314 PCBA Includes: IP Control PCB Only	Q-20000314
Service Kit, IP100, AC Model Includes: Assembled front housing, driver, power supply, and amplifier	Q-IP100AC
Service Kit, IP100, DC Model Includes: Assembled front housing, driver, and amplifier	Q-IP100DC
Service Part Fuse 2 per AC unit Bussman part – GDC-3.15A Littlefuse part p 2183.15HXP	K148186A-01
Service Part 1 per Amplifier Littlefuse part 0297010.wxnv	Not Available through Federal Signal

### Getting Service

If you are experiencing any difficulties, contact Federal Signal Customer Support at: 800-548-7229 or 708-534-3400 extension 7511 or Technical Support at: 800-524-3021 or 708-534-3400 extension 7329 or through e-mail at: [techsupport@fedsig.com](mailto:techsupport@fedsig.com). For instruction manuals and information on related products, visit: <http://www.fedsig.com/>



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