

750A-NFC-012-024R, 750A-NFC-120-240R, 750A-NFC2-012-024R, and 750A-NFC2-0120-240R

Electronic Siren

25501058 Rev A0 0126



Limited Warranty: This product's limited warranty can be found at www.fedsig.com/SSG-Warranty.

SAFETY MESSAGES TO INSTALLERS AND USERS

The equipment is not intended for repair by the user. Repair of this equipment shall be carried out by the manufacturer or manufacturer's authorised agent.

It is the responsibility of the end user to take suitable precautions to prevent exposure to aggressive chemicals that may attack metals or the polymeric materials used in the construction of this equipment. Specific details of vulnerable materials shall be provided in the instructions.

- Read and understand all instructions before installing, operating, or maintaining this equipment.
- The installation is to be performed by qualified personnel only.
- **WARNING: SHOCK HAZARD** – To avoid electrical shock hazards, do not connect wires when power is applied. Failure to observe this warning may lead to serious injury or death.
- Optimum sound distribution will be severely reduced if any objects are in front of the horn. You should ensure that the front of the horn is clear of any obstructions.
- All effective warning horns produce loud sounds, which may cause, in certain situations, permanent hearing loss. The device should be installed far enough away from potential listeners to limit their exposure while still maintaining its effectiveness. The OSHA Code of Federal Regulations 1910.95 Noise Standard provides guidelines for permissible noise exposure levels.
- After installation, ensure that all mounting screws are tightened.
- 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.
- Never alter the unit in any manner.

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

Certifications



Radio equipment type 750A is in compliance with Directive 2014/53/EU.

Table 1 Technical Data

	12-24 Vdc						120-240 Vac	
V—	12	24	-	-	48	60	-	-
V~	-	-	12	24	-	-	120	240
mA	500	900	750	1400	1300	1400	450	350

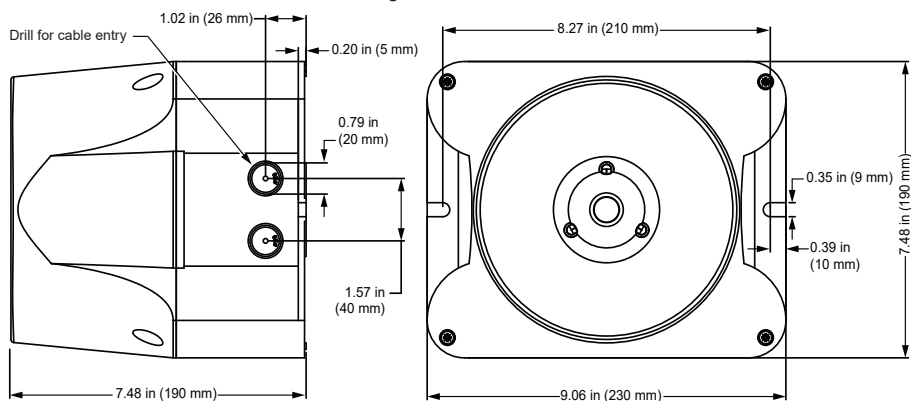
Table 2 Temperature

UL 464A and UL 50E	-40 to +140°F (-40 to +60°C)
CSA C22.2 NO. 205	750A-NFC2-012-024R: -22 to +122°F (-30°C +50°C) 750A-NFC2-120-240R: -40 to +140°F (-40°C +60°C)

IP: 66/69K

NOTE: The IP rating is not evaluated by UL

Figure 1 Dimensions



Installing the Sounder

Install the unit on a vertical wall for proper functioning.

Be sure to use the appropriate number of cables for the type of cable gland chosen.

To install the device:

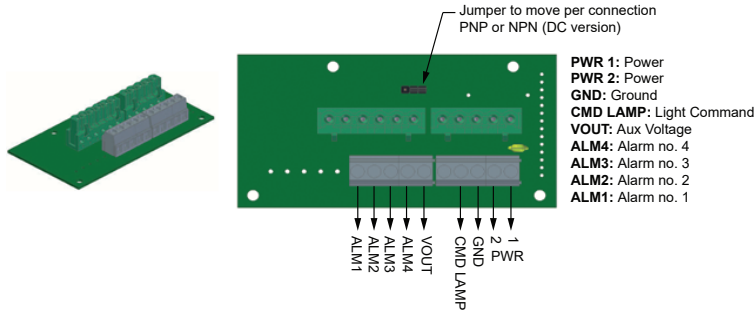
1. Remove the four screws on the sides and separate the two parts of the 750A.
2. Use a 0.79-inch (Ø20 mm) hole cutter to drill a hole for cable entry. See Figure 1.
3. Affix the base to the wall and wire it to the network.
4. Close the 750A using a PZ2 screwdriver and a closing torque of 22 in-lb. The front automatically connects to the base when it is mounted.

NOTES:

- The front part is equipped with a mistake-proof system for correct installation.
- For cable entry, use UL certified M20 cable glands with minimum protection IP66/69K.

Wiring the Device

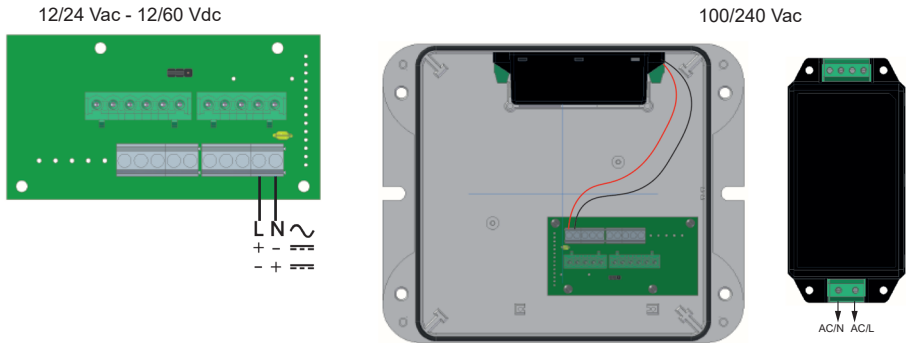
Figure 2 Wiring the Device



On the appropriate power supply line, use appropriate time-lag fuses according to the voltage.

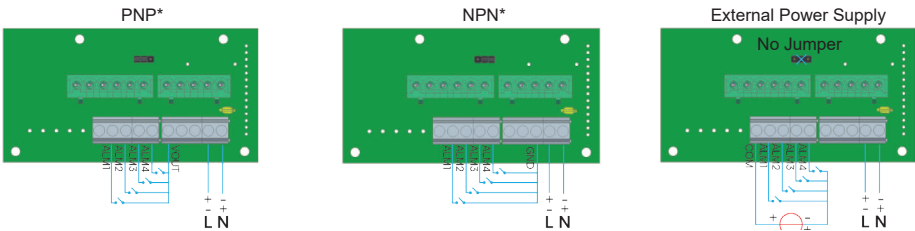
NOTE: The power cable range is 12-20 AWG.

Figure 3 Power Supply



Activating the Alarms

Figure 4 Alarm Activation



*For the 12/60Vdc/12-24Vac version, the use of a ferrite at the output from VOUT/GND of the alarm commands is recommended.

PNP: To activate the alarms in PNP mode, use the dedicated pin (VOUT) and not the positive of the power supply.

NPN: To activate the alarms in NPN mode, use the dedicated pin (GND) and not the mass of the power supply.

ALM1 has priority over ALM2, ALM3 and ALM4.

ALM2 has priority over ALM3 and ALM4.

ALM3 has priority over ALM4.

Sounds and Volume

Set sounds and volume via DIP switch on the circuit or by connecting to the 750A via NFC using the dedicated application to be installed on the mobile phone.

In the NFC2 version, you can connect to the 750A via the USB port using the dedicated software to be installed on the PC.

Setting with the DIP Switch

There are 29 sound combinations available through the DIP switch.

Figure 5 DIP Switch

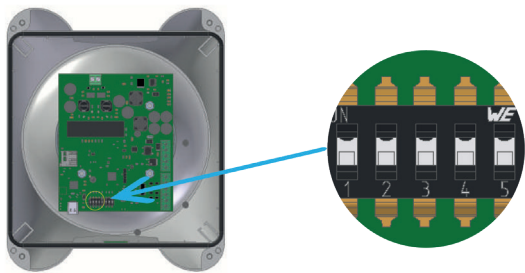


Table 3 Sound Combinations

DIP1	DIP2	DIP3	DIP4	DIP5	No.	Alarm A	Alarm B	Alarm C	Alarm D
0	0	0	0	0	1	NFC/USB-C			
1	0	0	0	0	2	21	0	37	46
0	1	0	0	0	3	22	1	38	47
1	1	0	0	0	4	23	2	39	48
0	0	1	0	0	5	24	3	40	49
1	0	1	0	0	6	25	4	41	50
0	1	1	0	0	7	26	5	42	51
1	1	1	0	0	8	27	6	43	52
0	0	0	1	0	9	28	7	44	53
1	0	0	1	0	10	29	8	45	54
0	1	0	1	0	11	30	9	46	55
1	1	0	1	0	12	31	10	47	56
0	0	1	1	0	13	32	11	48	57
1	0	1	1	0	14	33	12	49	58
0	1	1	1	0	15	34	13	50	59
1	1	1	1	0	16	35	14	51	60
0	0	0	0	1	17	36	15	52	61
1	0	0	0	1	18	62	16	53	37
0	1	0	0	1	19	63	17	54	38
1	1	0	0	1	20	64	18	55	39
0	0	1	0	1	21	65	19	56	40
1	0	1	0	1	22	66	20	57	41
0	1	1	0	1	23	52	38	58	42
1	1	1	0	1	24	53	39	59	43
0	0	0	1	1	25	54	40	60	44
1	0	0	1	1	26	55	41	61	45
0	1	0	1	1	27	56	42	17	57
1	1	0	1	1	28	57	45	18	58
0	0	1	1	1	29	58	44	19	59
0	1	1	1	1	30	59	43	20	60

Use the three DIP switched on the right to set the volume, with level 1 being the lowest and 8 being the highest.

Figure 6 Volume

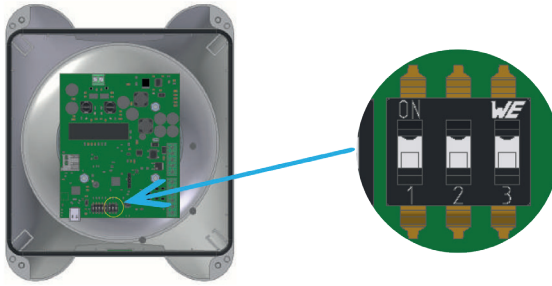


Table 4 DIP Switch Settings for Volume

Volume Level	DIP Switch		
Level 1	0	0	0
Level 2	0	0	1
Level 3	0	1	0
Level 4	0	1	1
Level 5	1	0	0
Level 6	1	0	1
Level 7	1	1	0
Level 8	1	1	1

NOTE: The volume increase for levels 7 and 8 is very limited and may therefore be imperceptible.

Setting with the Application

It is possible to set the required sound and volume for each channel through the application to be installed on devices with iOS and Android systems.

The application can be used only with phones with an integrated NFC reader. Before using the application, verify that the DIP switch is in the configuration that enables NFC (0 0 0 0). The unit does not need to be powered.

After opening the application and selecting the 750A product, place the phone in the area where the NFC writing is present to read or save a new configuration. See Figure 7.

Figure 7 NFC Position



NOTE: The NFC frequency is 13.56 Mhz.

See Table 5 on page 7 for available sounds.

Setting with a PC (NFC2 versions)

Through the dedicated software, set the required sound and volume for each channel by connecting the unit to the PC via the USB-C port highlighted in Figure 8. It is also possible to configure each channel with a sound recorded in .wav and .ogg formats.

Figure 8 USB-C Port



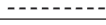
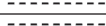
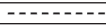
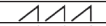
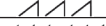
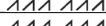
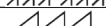
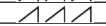
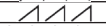
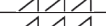
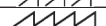
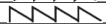
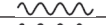
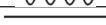
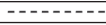
Before activating the USB-C port, verify that the DIP switch is in the configuration that enables NFC (0 0 0 0 0). The siren does not need to be powered.

For more information, consult the tutorial within the software.

Supported Audio Files

- OGG:
 - Channels: 1-2
 - Window size: 64-4096 samples
 - Sample rate: 48,000 Hz
 - Bit rate: 500 kbps
- WAV:
 - 8-bit uLAW
 - 8-bit linear PCM
 - 16-bit linear PCM

Table 5 Sounds

No.	Tone	Tone Type	F(Hz)	Times	Description
0	Bi-tone		600-700	0.5/0.5 s	Standard
1	Bi-tone		440-560	0.565/0.565 s	Standard – Evacuation
2	Bi-tone		800-970	0.25/0.25 s	BS5839-1:2002
3	Bi-tone		800-970	0.8/0.8 s	General Purpose
4	Bi-tone		1000-2000	1/1 s	General Purpose
5	Bi-tone		480-610	0.5/0.5 s	General Purpose – Evacuation 1
6	Bi-tone		970-630	0.5/0.5 s	Apollo Fire System BS5839
7	Bi-tone		554-440	0.1/0.4 s	France – AFNOR NF S 32 001
8	Bi-tone		440-554	0.5/0.5 s	General Purpose
9	Bi-tone		510-610	0.5/0.5 s	General Purpose
10	Bi-tone		510-610	1/1 s	General Purpose
11	Bi-tone		600-700	1/1 s	General Purpose
12	Bi-tone		550-1000	0.5/0.5 s	General Purpose
13	Bi-tone		550-1000	1/1 s	General Purpose
14	Bi-tone		800-1000	0.5/0.5 s	General Purpose
15	Bi-tone		800-1000	1/1 s	General Purpose
16	Bi-tone		1000-2000	0.5/0.5 s	General Purpose
17	Bi-tone		2400-2850	0.265/0.265 s	General Purpose
18	Bi-tone		2400-2850	0.465/0.465 s	General Purpose
19	Bi-tone		640-970	0.5/0.5 s	General Purpose
20	Bi-tone		490-610	0.5/0.5 s	General Purpose
21	Intermittent	-----	420	0.625 s ON / 0.625 s OFF	Australia AS1670 Alert Tone
22	Intermittent	-----	660	0.15 s ON / s OFF s ON /	Swedish (Air Raid)
23	Intermittent	-----	660	1.8 s ON / 1.8 s OFF	Swedish (Local Warning)
24	Intermittent	-----	660	0.5 s ON / 0.5 s OFF	Swedish General Purpose
25	Intermittent	-----	720	0.7 s ON / 0.3 s OFF	General Purpose
26	Intermittent	-----	750	0.33 s ON / 0.5 s OFF	General Purpose
27	Intermittent	-----	800	0.25 s ON / 1 s OFF	General Purpose
28	Intermittent		970-800	0.35/0.35/0.35 s OFF x 3 1.5 s OFF	ISO 8201
29	Intermittent	--- ---	970	0.5 s ON / 0.5 s OFF x 3 1.5 s OFF	ISO 8201 Low Tone
30	Intermittent	--- ---	1750	0.1 s ON / 0.5 s OFF x 3	General Purpose
31	Intermittent	-----	970	0.25 s ON / 0.25 s OFF	General Purpose
32	Intermittent	-----	490	0.5 s ON / 1 s OFF	General Purpose – Warning
33	Intermittent	-----	544	0.625 s ON / 0.625 s OFF	General Purpose
34	Intermittent	-----	660	6.5 s ON / 13 s OFF	Swedish (Pre-Mess)
35	Intermittent	-----	970	1 s ON / 1 s OFF	Apollo Fire System BS5839
36	Intermittent	--- ---	2850	0.5 s ON / 0.5 s OFF x 3 1.5 s OFF	ISO 8201 High Tone
37	Linear	=====	300	-	General Purpose
38	Linear	=====	660	-	Swedish (All Clear)
39	Linear	=====	750	-	General Purpose
40	Linear	=====	2850	-	General Purpose
41	Linear	=====	610	-	General Purpose – Evacuation 2
42	Linear	=====	500	-	General Purpose
43	Linear	=====	970	-	BS5839-1:2002
44	Linear	=====	825	-	General Purpose
45	Linear	=====	1000	-	General Purpose
46	Sweep		1000-4000	Cycle 2 s	General Purpose
47	Sweep		500-1200	3.5 s ON / 0.5 s OFF	Netherlands – NEN2575:2000
48	Sweep		500-1200	0.5 s ON / 0.5 s OFF x 3 1.5 s OFF	Australia AS1670
49	Sweep		800-970	0.5 s ON / 0.5 s OFF x 3 1.5 s OFF	ISO 8201
50	Sweep		1000-2000	Cycle 2 s	Standard
51	Sweep		1000-1700	Cycle 0.8 s	Standard
52	Sweep		2000-1000	Cycle 2 s	Standard
53	Sweep		2700-1700	1 s ON / 2 s ON / 1 s OFF	Standard
54	Sweep		500-1200	Cycle 3.75 s / 0.25 s OFF	AS2220
55	Sweep		1400-1600	Cycle 1.5 s	NE 48-265
56	Sweep		800-970	Cycle 1.5 s	BS5839-1:2002
57	Sweep		1200-500	Cycle 1 s	DIN 33 404
58	Sweep		1500-2000	Cycle 1.5 s	General Purpose
59	Sweep		800-970	Cycle 1 s	UNI 11744
60	Sweep		2450-2850	Cycle 1 s	EN54-3
61	Sweep		2000-500	Cycle 1.5 s	General Purpose
62	Sinusoidal		500-2500	Cycle 0.32 s	Standard
63	Sinusoidal		1000-3000	Cycle 0.64 s	Standard
64	Sinusoidal		2000-4000	Cycle 0.64 s	Standard
65	White Noise	=====	Random	-	Standard
66	Intermittent White Noise	-----	Random	0.5 s ON / 0.5 s OFF	Standard

Maintenance and Service

Technical Assistance: Contact our Technical Support Team at +1 708-587-3587 or signalsupport@fedsig.com.

Repair Service: A return authorization is required. Contact your Authorized Distributor or Federal Signal Customer Support. Defective products under warranty will be repaired or replaced at Federal Signal's discretion.

Product Returns: Returns require authorization from Federal Signal. Contact your Authorized Distributor for more information on our return policy or to request a return.



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Safety and Security Systems

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