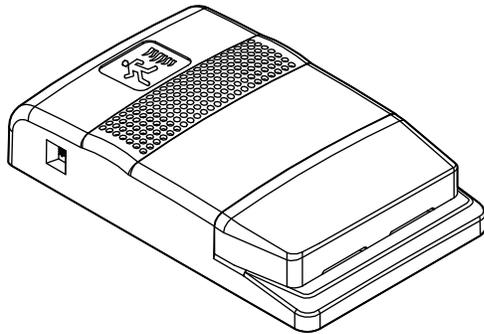




DC-M9414 Series Wall Mount Sounder Installation Sheet



Description

The DC-M9414 Series Wall Mount Sounder is an audible fire alarm notification appliance that is designed for mounting on indoor walls. See Table 1 for a list of model numbers.

Table 1: Models

Description	Model number
Sounder, white	DC-M9414W
Sounder, red	DC-M9414R

The DC-M9414 Series Wall Mount Sounder includes field-configurable jumper options for selecting:

- Temporal or steady sounder output (see Figure 1 item 1)
- High dB or low dB output (see Figure 1 item 2)

Installation

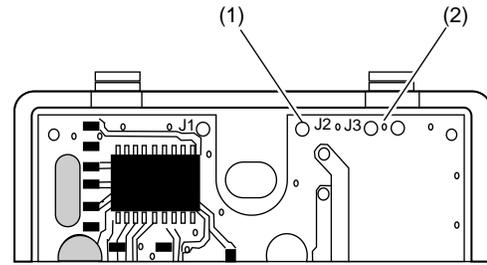
Install and wire this device in accordance with applicable national and local codes, ordinances, and regulations.

Caution: Electrical supervision requires breaking the wire run at each terminal. Do not loop the signaling circuit field wires around the terminals.

To install the sounder:

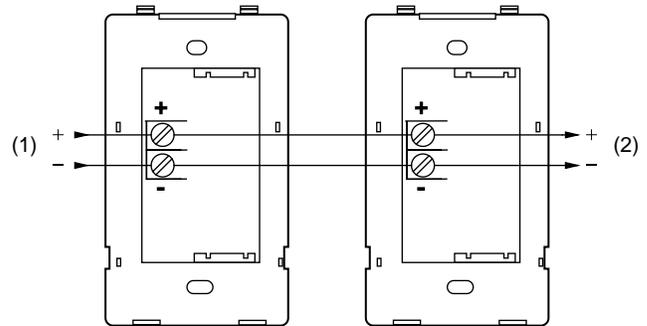
1. Remove the cover by depressing both tabs on the top of the unit with a small screwdriver and twisting slightly.
2. Set the sounder signal and sound output level to desired settings. See Figure 1.
3. Connect the sounder terminals to the signal circuit field wiring. Observe polarity for the unit to function properly. See Figure 2.
4. Mount the unit onto a compatible electrical box, making sure not to overtighten the mounting screws.
5. Replace the cover by aligning at the bottom, then snapping in at the top.
6. Test the unit for proper operation.

Figure 1: Sounder settings



- (1) To change the sounder signal from temporal to steady, cut from circle J2 to edge of circuit board
- (2) To change the sounder sound output level from high dB to low dB cut J3 by snipping the board trace between holes

Figure 2: Wiring diagram



- (1) From NAC output
- (2) To next appliance, EOLR, or return to source

Note: Polarity is shown in the alarm condition.

Maintenance

Caution: To maintain the required agency listings, do not change factory applied finishes.

This unit is not serviceable or repairable. Should the unit fail to operate, contact the supplier for replacement.

Perform a visual inspection and an operational test twice a year or as directed by the local authority having jurisdiction.

Specifications

Operating Voltage	Regulated 16 to 33 VDC, 16 to 33 VFWR
Current	
Alarm	40 mA at 24 VDC
Operating	See Table 3
Sound level output	See Table 2
Audible directional characteristics	See Table 4 and Table 5
Wire size	12 to 18 AWG (0.75 to 2.50 mm ²)
Compatible electrical boxes	Single-gang box, 2-1/2 in. (64 mm) deep boxes
Operating environment	
Temperature	32 to 120°F (0 to 49°C)
Relative humidity	0 to 93% noncondensing

Table 2: Sound level output (dBA)

Signal and voltage		Low	High
Temporal	16 VDC	76.0	81.4
	24 VDC	79.4	84.4
	33 VDC	82.1	86.3
Continuous	16 VDC	80.1	85.5
	24 VDC	83.5	88.6
	33 VDC	86.5	90.4

UL 464: Sound level output at 10 ft. (3.05 m) measured in a reverberant room.

Table 3: Operating current in RMS (A)

Voltage	High	Low
16 VDC	0.026	0.019
24 VDC	0.036	0.027
33 VDC	0.041	0.033
16 VFWR	0.051	0.037
24 VFWR	0.069	0.052
33 VFWR	0.076	0.070

VDC = Volts direct current, regulated and filtered
VFWR = Volts full wave rectified

Table 4: Audible directional characteristics (horizontal pattern)

Angle (°) [1]	Sound output (dBA) [2]
-90	94
-45	97 (-6)
-30	100 (-3)
90	103
30	100 (3)
45	97 (6)
90	96

[1] Angles are measured from a perpendicular axis; positive angles to the right
[2] Peak output at 24 VDC, set for temporal tone.

Table 5: Audible directional characteristics (vertical pattern)

Angle (°) [1]	Sound output (dBA) [2]
-90	94
-40	97 (-6)
-25	100 (-3)
90	103 dBA
35	100 (3)
45	97 (6)
90	96

[1] Angles are measured from a perpendicular axis; positive angles are up.

[2] Peak output at 24 VDC, set for temporal tone.

Certification and compliance

UL rating	Regulated 24 DC and Regulated 24 FWR [1]
Environmental class	UL: Indoor, Dry
North American standards	UL 464

[1] This device was tested to the regulated 24 DC/FWR operating voltage limits of 16 V and 33 V. Do not apply 80% and 110% of these values for system operation.

Contact information

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