

INSTALLATION



3914 / 3914W WALL MOUNTED SOUNDERS

Switches

Installation Instructions

These notification appliances can be installed in systems using 12 or 24V using DC or full-wave rectified (FWR) power supplies.

The indoor model 3914 has an operating temperature range of 32°F to 120°F (0°C to 49°C). Model 3914W meets NEMA 3R requirements with an operating temperature of -40°F to 151°F (-40°C to 66°C). They are not suitable for ceiling mounting.

Fire Alarm System Considerations

The National Fire Alarm Code, NFPA 72, requires that all horns, used for building evacuation produce temporal coded signals.

Signals other than those used for evacuation purposes do not have to produce the Temporal Coded Signal. Temporal coding is accomplished by interrupting a steady sound in the following manner:

1/2 sec ON; 1/2 sec OFF; 1/2 sec ON; 1/2 sec OFF, etc. (repeatedly)

Horn Selection

Turn the rotary switch on the back of the product to the desired setting. The current draw for each setting is listed in Table 1. The sound output measurement for each horn setting is shown in Table 2.

WARNING: The horn will not work without power. The horn may not be heard. The loudness of the horn meets (or exceeds) current Underwriters Laboratories' standards. However, the sounder may not alert a sound sleeper or one who has recently taken medication/drugs or alcoholic beverages. The sounder may not be heard if it is located on a different building level from the person in hazard or if it is placed too far away to be heard over ambient noise (i.e. traffic, air conditions, machinery or music appliances). The sounder may also not be heard by persons who are hearing impaired.

Table 1 - Horn Current Draw (mA)

Pos	Sound Pattern	dB Out	8-17.5 Volts		16-33 Volts	
			DC	FWR	DC	FWR
1	Temporal	High	57	55	69	75
2	Temporal	Medium	44	49	58	69
3	Temporal	Low	38	44	44	48
4	Non-temporal	High	57	56	69	75
5	Non-temporal	Medium	42	50	60	69
6	Non-temporal	Low	41	44	50	50
7	Coded	High	57	55	69	75
8	Coded	Medium	44	51	56	69
9	Coded	Low	40	46	52	50

NOTE: In positions 7, 8 and 9, temporal coding must be provided by the NAC (Notification Appliance Circuit). If the NAC voltage is held constant, the horn output will remain constantly on.

When connected to an DORMA EMDE Delayed Egress electromagnetic lock, set Audio Select Dial to Sound Pattern 7, 8 or 9 only.

3914 Sounder Installation Instructions (Continued)

Table 2 - Horn Output (dBA) in UL Reverberant Room:

Switch Position	Sound Pattern	dB Out	8–17.5 Volts*		16–33 Volts*		24 V Nominal Measurements			
			DC	FWR	DC	FWR	Reverberant		Anechoic	
							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

* Minimum dB rating for Operational Voltage Range as per UL 464.

Mounting Indoor Wall Model 3914

1. Attach mounting plate to junction box. Compatible with 4" square, single gang, double gang, and 4" octagon junction boxes.
2. Connect field wiring to terminals, per mounting bracket label.
3. Hook tabs on the product housing into the grooves on mounting plate.
4. Swing product into position to fully engage the pins on the product with the terminals on the mounting plate.
5. Secure product by tightening the single mounting screw. For tamper resistance use the enclosed Torx screw.

Model 3914W

1. This outdoor sounder must be installed using the proper weatherproof back box. Do not attempt to use boxes other than the one supplied.
2. The wall mount box internal post must be in the lower left corner.
3. Two threaded holes are provided in the sides of the box for 3/4 inch conduit adapters. Knockout plugs in the back of the box can be used for 1/2 or 3/4 inch rear entry. Unused holes **must** be sealed. Plugs are provided.
4. It is the responsibility of the installer to make sure that all openings and connections are sealed properly.
5. Water may pool on the back box due to condensation or direct exposure to rain or snow. Use watertight fittings for all wiring connections. With plastic plugs, apply teflon tape and/or silicone sealant to reduce the chance of leakage.
6. Follow steps 2 – 6 of the indoor mounting

Wall Mount Weatherproof Backbox:

Proper Orientation

Internal Post must be lower left

