



Installation Instructions

Flashguard – The Installer's Choice

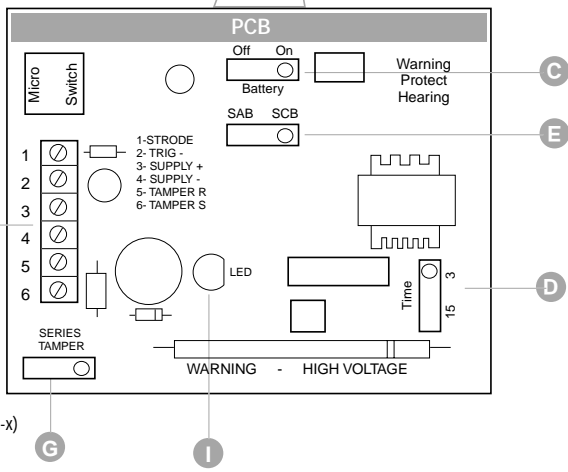
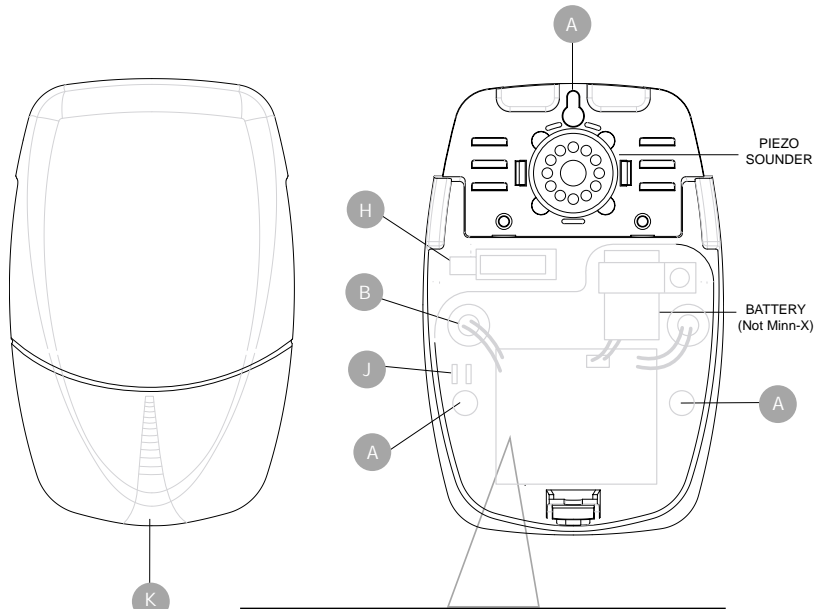
Minn-X Internal Alarm Sounder

Minn-XE Internal Alarm Sounder with strobe

Minn-XW External Alarm Sounder

Installation Instructions

Thank you for buying Flashguard the generic term for sounder/strobe units.

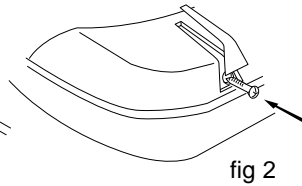
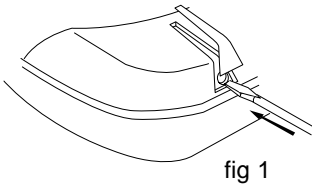


KEY

- A - Mounting Hole
- B - Cable Entry Hole
- C - Battery Jumper (not Minn-x)
- D - Cut Off Timer Jumper (not Minn-x)
- E - SAB/SCB Jumper (not Minn-x)
- F - Connection Terminal Block
- G - Series Tamper Jumper
- H - Tamper Switch
- I - Power LED
- J - Cable Grips
- K - Screw cover / lens

1 Mounting Instructions

- Using the backplate of the unit (or the template on the rear of the carton), mark the position of the screw holes (A) and cable entry hole (B) on the wall at the selected mounting position.
- Drill and plug the wall as marked.
- Using a long masonry bit, drill a hole through the wall to allow the cable to pass through.
- To remove the front cover on the Minn-XW, gently remove the transparent cover using a screwdriver as shown in fig 1 and remove the screw.
- Mount the unit on the wall with screws provided, not forgetting to pass the cable through the entry hole on the backplate.
- Make the connections to the terminal block (refer to sections 3-4).
- Configure the jumpers as described in section 2 (not Minn-X).
- Replace the lid and tighten screw. (On Minn-XW, ensure the transparent screw cover is replaced, see fig 2)
- Alternatively, when used indoors the unit can also be connected to surface wiring or trunking using the knock out cable entry on the top surface of the cover.
- The back plate also has mounting holes for attachment directly to a BS 4662 plaster depth back box.



2 Jumper Settings (Minn-X)

Battery (C)

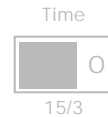
Once installed, this jumper must be moved to the ON position to connect the battery. This will activate the automatic 5 second sound test. The LED will not illuminate until the hold-off voltage is applied.



Cut Off Timer (D) - for the sounder

Can be set to either 15 or 3 minutes by putting the jumper on the relevant pair of pins.

Note: Removing the jumper selects 3 minutes cut off time.



SAB / SCB Operation (E)

Move jumper to SCB position to minimise the current drawn from control panel. A reduction in sound level occurs in SCB mode.



Series Tamper (G)

This jumper must be removed when the tamper loops of two sounders are connected in series to the same control panel

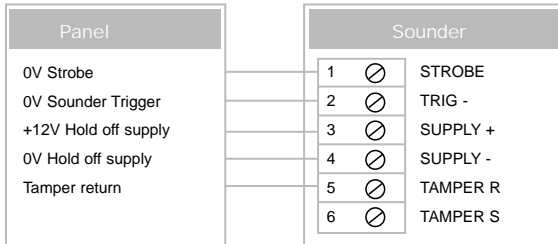


3 Terminal Connections (F)

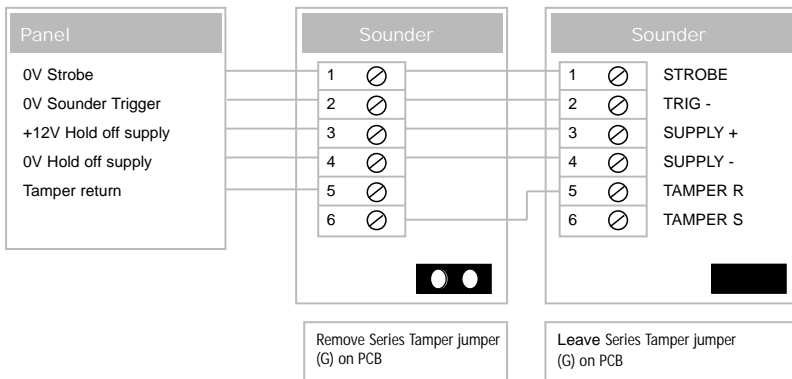
1	STROBE	Applying a negative voltage triggers the strobe.
2	TRIG -	Applying a negative voltage triggers the sounder.
3	SUPPLY +	} The permanent 12V DC supply from the panel is connected to these terminals. If the hold-off supply is removed from these terminals, the unit will self activate on battery backup (Note: The LED will stop flashing on battery backup.)
4	SUPPLY -	
5	TAMPER R	Sounder tamper loop negative return.
6	TAMPER S	This terminal is only used when connecting two units in series. <i>(Note: remove series tamper jumper when using tamper S input)</i>

4 Typical Wiring Configurations

5 wire connection (with NiMH battery)



5 wire connections for 2 units in series (with NiMH battery)



5 Precautions

- Two Sounder units in series

Note: In this configuration the total current consumption can approach 900mA. Ensure that the alarm panel can source this amount of current. If in doubt change the mode of operation of one or both units to SCB to reduce the current load on the panel.

- PCB Handling

Note: The electronic strobe circuit can retain a stored charged for some time after the power to the circuit is removed. Care should be taken when handling the PCB.

- Tamper Switch (H)

Care should be taken to ensure external wiring does not prevent the tamper switch from moving freely. Ensure that the external cable is routed through the cable grips provided. (J)

- Location

Minn-XW is fully weatherproof to IP55 and is suitable for outdoor use. Minn-X and Minn-XE are only intended for internal use. Ensure that these models are only installed in a dry location.

- Battery Replacement

Klaxon Signals recommends that the NimH battery be replaced every five years.

6 Free Screen Printing

You supply the artwork and we will do the rest!

Let us create a professional company image which will heighten your company profile and place an advertisement at every installation.

FREE screen printing is available on orders of more than 30 units.

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Technical Specification	Minn-X	Minn-XE	Minn-XW
Maximum Sounder Output (dBA @ 1m)	110		110
Strobe frequency (Hz)	1		N/A
Input Voltage			
- Maximum	15		15
- Minimum	10		10
Current Consumption (mA) @ 13.2V			
- Sounder (SAB mode)	300		300
- Sounder (SCB mode)	40		NA
- Strobe	130		N/A
- Standby Current	35		30
- maximum battery charge current (constant current charger)	20		N/A



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