

8-82414 EuroSmart Compact Siren

Thank you for purchasing this Haztec product. Before proceeding with installation, it is essential to read and understand this instruction booklet.



- Compact size
- Cool running
- High output volume
- Suitable for 12V or 24V installations
- Dual operating modes
- Readily configured via USB lead using Haztec's 'Siren Configuration Utility' with access to 28 different tones
- Speaker output short circuit protection

Safety Requirements for Installation:

Please familiarise yourself with these instructions before attempting installation. Failure to observe the following may result in damage to the system and void any warranty

- This product must only be installed by persons experienced and qualified to work with electrical systems, without causing damage or injury to anyone
- Ensure the power is isolated before installation
- Ensure correct voltage and polarity of all electrical connections
- Whilst this unit is designed for an external installation, it should be sheltered from the worst of the elements if possible. Do not immerse in water
- The sound levels from this siren can permanently damage your hearing. Always use hearing protection when testing
- Ensure all electrical connections are well made and protected from corrosion

Limited Warranty:

- Haztec International Ltd warrants this unit to be free from defective material or workmanship and will repair or replace if it proves defective in normal use or service within one year of the date of purchase
- This warranty will be considered void if the unit has been tampered with, improperly serviced, subjected to abuse or misuse, or improperly installed in a vehicle
- This warranty does not cover accidental damage

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Basic Operating Specifications:

General		
Supply voltage range when running 12V		10 – 16VDC
Supply voltage range when running 24V		20 – 32VDC
Maximum current draw with one speaker		2.5 Amps @ 12VDC
Maximum current draw with two speakers		5.0 Amps @ 12VDC
Maximum current draw with one speaker		1.25 Amps @ 24VDC
Maximum current draw with two speakers		2.5 Amps @ 24VDC
Current draw at standby		7 mA
Output volume with one speaker		118 dB(A) @ 2 m
Inputs and outputs		
	Input #1	either [+] or [-] signal
	Input #2	either [+] or [-] horn circuit; otherwise [-] only *
Features		
Speaker output short circuit		Immediate internal shutdown. [Reset by selecting standby]
Reverse polarity protection		Supply fuse blows immediately. [Ensure an appropriately rated fuse is installed]
Dimensions		
	Length	78mm
	Width	54mm
	Height	23mm [Add 15mm for wiring to exit]
	Weight	85mm
* See Note 1		

Special Tone Facilities:

- Genuine fanfare from twin generators pitched a semitone apart
Or
- Two different tones to sound simultaneously i.e. Yelp and any other tone. Also known as 'mixed' tone

Note 1: Input 2 (Horn Input)

- To ensure correct operation when Input 2 (Horn Input) is configured for positive switching, but **is not** connected into a Horn circuit, cut the yellow link wire



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Setup & Installation:

Configuration:

- Generally the unit will already be configured to the requested specifications. If the configuration requires changing, this is carried out using the Haztec 'Siren Configuration Utility' available from www.haztec.uk

Operating Modes:

- Determine the pre-configured 'Mode' as this dictates how the siren will be installed
 - Mode 1 - Control is via wired inputs
 - Mode 2 - Control is by vehicle horn circuit

Installation Location:

- Decide upon a suitable secure location for the amplifier
- This location must be:
 - Dry
 - a firm flat surface
 - away from heat sources

Speaker(s):

- Only use the specially designed Haztec 8-7050 4Ω speaker. Using any other speakers may cause reduced volume and potentially damage the unit

Wiring Harness:

- The 8-82414 is supplied with its own wiring harness
- Once the installation location of all components is confirmed, cut the wires to the most suitable length, avoiding slack, and tightness
- Ensure all connections are watertight. If the wire lengths need to be extended, ensure a matching wire grade is used

General Notes:

- Rubber grommets should be used when passing through any bulkheads to protect the cable from damage
- Do not insert the fuse until the installation process is complete
- Ensure all wiring is protected from damage along its entire length

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Main Harness Wiring Instructions:

Pin	Wire colour	Function
1	Brown/Black	Speaker #2 [-]
2	Brown	Speaker #2 [+]
3	Dark Blue/Black	Speaker #1 [-]
4	Dark Blue	Speaker #1 [+]
5	Black	Earth/Ground [-]
6	Red	Main power [+]
7	Light Blue	Input #1
8	White	Input #2*

* See Note 1 on Page 2

Pins 1 & 2: Speaker #2 outputs; see Speaker installation options for further information

Pins 3 & 4: Speaker #1 outputs; see Speaker installation options for further information

Pin 5: Permanent ground/earth [-]; always connect this before any other connections

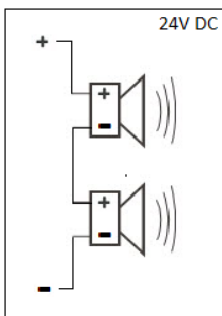
Pin 6: Positive fused feed [+]; select cable according to information on page 2 and select appropriate fuse depending on configuration of speakers and input voltage. The fuse should always be located as close as possible to the point of supply

Pin 7: Input #1; can be programmed to respond to either positive [+] or negative [-] signal

Pin 8: Input #2; can be programmed to respond to either positive [+] or negative [-] signal. This is normally connected to the vehicle's horn circuit. When used with a 'free' switch it should be connected to negative

Speaker Installation:

- 12VDC siren supply:
 - 1x 8-7050 [4 Ohm] speaker connected to output #1
 - 2x 8-7050 [4 Ohm] speakers connected individually to outputs #1 and #2
- 24VDC siren supply:
 - 2x 8-7050 [4 Ohm] speakers connected in series to output #1



Note 1: To obtain the maximum possible volume from the arrangement, speakers should be connected in phase. Ensure that the speaker polarity is observed, i.e. when connecting two speakers in series; ensure that the [+] from one speaker connects to the [-] of the other speaker (see fig.).

Note 2: Semitones and mix tones not available with 24V installations