

# HA121 - HAL121 - HAL121L - HAL121B

# Hootronic: Alarm sounder and combined audio visual signalling device

Applications and users that have traditionally demanded conventional electromechanical hooters, sirens, buzzers and bells can now choose the next generation alternative. The technology used in the Hootronic range features the latest in amplifier and digital to analogue conversion technology.

The E2S Hootronic series of products faithfully reproduce the sounds made by traditional electro-mechanical signalling devices but in a modern, reliable and cost effective way. With output levels of up to 121dB(A) at 1 metre the Hootronic also surpasses the performance and effectiveness of its traditional counterpart. Unlike the traditional electro-mechanical devices the Hootronic range is continuously rated, requires zero maintenance and signal quality and performance will not degrade with age.

The lightweight, durable housings are manufactured from impact and fire resistant UL94V0 & 5VA ABS. The unit can also be supplied as combined unit (the HAL121 version) with either a 5 Joule Xenon, L.E.D or filament bulb beacon in a choice of up to 7 lens colours.

## Specifications:

- Nominal output: 121dB(A) @ 1m +/-3dB
- 3 stage alarm option
- Volume control
- 300m effective range
- Voltages: 24vdc; 115vac; 230vac
- HA121: IP55 (up to IP66 dust protected & watertight with WR kit)
- HAL121: IP55 (up to IP56 with WR kit)
- Enclosure material: UL94V0 & 5VA rated FR ABS Colour available: Red (RAL3000), Grey (RAL7035)
- Operating temperature: -25 to +55°C Storage temperature : -40 to +70°C
- Relative humidity: 90% at 20°C
- Weight HA121: DC: 2.10Kg AC: 2.70Kg

HAL121: DC: 2.30Kg AC: 2.90Kg

HAL121: Xenon: 5 Joule @ 1Hz (5 Ws) (60 FPM)

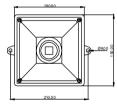
HAL121L: L.E.D: 8 x L.E.D array (Steady or flashing @ 2Hz). HAL121B: Bulb: Filament 3 watt (Steady or flashing @ 1.5Hz).

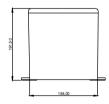


HA121: Hootronic Alarm Horn

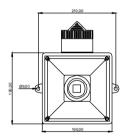


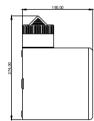
HAL121: Hootronic Alarm Horn combined with either Xenon. filament bulb or L.E.D beacon.





All dimensions are in millimetres.





### NOTE:

- If applicable please review accompanying installation instructions for details regarding the xenon, bulb or L.E.D beacon.
- Cables for connecting the sounder to the beacon are supplied with the product.



>121dB(A)@1m.

Voltage range and current consumption for the HA121 Hootronic Alarm Horn:

/oltage:	24vdc	115vac	230vac
		50/60Hz	50/60Hz
Range:	+/-25%	+/-10%	+/-10%
Current:	375mA	160mA	75mA

Voltage range and current consumption for the HAL121 Hootronic Alarm with 5J Xenon:

Voltage:	24 vdc	115vac	230vac	
		50/60Hz	50/60Hz	
Range:	+/-25%	+/-10%	+/-10%	
Current:	645mA	270mA	130mA	

Voltage range and current consumption for the HAL121L Hootronic Alarm with L.E.D beacon:

Voltage:	24 vdc	115vac	230vac	
		50/60Hz	50/60Hz	
Range:	+/-25%	+/-10%	+/-10%	
Current:	475mA	204mA	102mA	

Voltage range and current consumption for the HAL121L Hootronic Alarm with Bulb beacon:

Voltage:	24 vdc	115vac	230vac
		50/60Hz	50/60Hz
Range:	+/-25%	+/-10%	+/-10%
Current:	500mA	190mA	90mA

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### Mounting and cabling instructions:

The unit can be mounted with either the external lugs or by fixing through the back of the housing. For internal fixing the HA121 has BESA compatible fixing positions marked.

THe HA121 is shipped with one M20 clearance cable entry hole populated with an IP55 stopping plug. For installations requiring the cable entry to be through the rear of the unit a M20 clearance 'knockout' is located in the centre of the back wall of the housing. The terminals in the HA121 and HAL121 products will accept from 0.5mm<sup>2</sup> to 4.0mm<sup>2</sup> stranded or single core cables.

#### DC units:

DC power supply connections should be made to the + and terminals

To remotely switch the second and third stage sounds cable into the terminals marked 'S2' and 'S3' respectively. To activate the second and third stage sounds switch 'S2' or 'S3' to the negative supply whilst the unit is powered (see Fig.1). Stage 2 overides stage 1 and stage 3 overides stage 2.

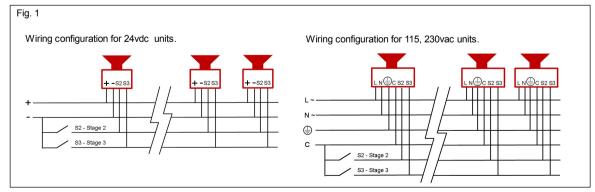
The Hootronic sounder has the facility to replicate the 'tail off' traditionally associated with these tone when generated by electro-mechanical devices. The switching is achieved by cabling into the terminal marked STOP. The user can remotely activate and de-activate the sounder by switching the connection between the STOP wire and the negative supply line whilst the unit is powered. To achieve the 'tail off' sound at switch off the unit must remain powered.

#### AC units:

AC power supply connections should be made to the L. N and E. terminals

To remotely switch the second and third stage sounds cable into the terminals marked 'C/-', 'S2' and 'S3' respectively. To activate the second and third stage sounds switch 'S2' or 'S3' to the 'C/-' cable whilst the unit is powered (see Fig.1). Stage 2 overides stage 1 and stage 3 overides stage 2.

The Hootronic sounder has the facility to replicate the 'tail off' traditionally associated with these tone when generated by electromechanical devices. The switching is achieved by cabling into the terminals marked STOP and 'C/-'. The user can remotely activate and de-activate the sounder by switching the connection between STOP and the 'C/-' cables whilst the unit is powered. To achieve the 'tail off' sound at switch off the unit must remain powered.



ISN5201-A No liability is accepted for any consequence of the use of this document. The technical specification of this unit is subject to change without notice due to our policy of continual product development. All dimensions are approximate. This unit is sold subject to our standard conditions of sale, a copy of which is available on

#### Tone Selection:

The Hootronic HA121, HAL121, HAL121L and HAL121B have 5 user selectable 'traditional' sounds:

Tone 1 · Industrial Hooter

Tone 2: High Frequency MechanicalSiren

Tone 3: Medium Frequency Mechanical Siren

**Electro Mechanical Buzzer** Tone 4:

Tone 5: Mechanical Bell

Each of these sounds has two additional, remotely selectable, alarm stages as shown in the table below (see Fig 2.). The first stage tone is selected by means of the pin headers marked 1,2,3 on the PCBA. Use the supplied jumper connectors to select the required tone by following the diagrams in the table below See 'Mounting and cabling instructions' for details of how to activate the second and third stages.

Fig. 2				
Stage1 tone	Alarm Description	Stage2 (S2)	Stage3 (S3)	Head
Tone 1	hdustrial Hooter	Tone 3	Tone 5	3 • 2 • 1 •
Tone 2	High Frequency Mechanical Siren	Tone 1	Tone 5	3 ♥ 2 ♥ 1 ■
Tone 3	Medium Frequency Mechanical Siren	Tone 1	Tone 5	3 • 2 • 1 •
Tone 4	Electro Mechanical Buzzer	Tone 1	Tone 5	3 • 2 • 1 •
Tone 5	Mechanical Bell	Tone 1	Tone 2	3 <b>●</b> 2 <b>●</b> 1 <b>●</b>



Disconnect from power source to prevent electrical shock before installing and servicing

Couper l'alimentation pour empêcher tout choc électrique avant d'effectuer des travaux d'installation et d'entreti en

<sup>●</sup>Vor der Installation und Wartung von der Spannungsquelle abnehmen, um elektrische Schläge zu vermeiden. Prima dell'installazione e della manutenzione s pegnere l'alimentazione elettrica per evitare scosse ele ttric he

Des conecte la alimentación para evitar descargas eléctricas antes de la instalación y mantenimiento

<sup>●</sup>Antes de instalar ou de fazer a manutenção desligue sempre da alimentação eléctrica para evitar choques

Strømmen skal afbrydes ved installering og eftersyn for at undgå elektrisk stød.

●Los koppelen van de elektrische v oeding om elektrische schok vóór installatie en onderhoud te v oorkomen.

•Før montering eller vedlikehold, må spenningen koples fra for å unngå strømstøt.

Bryt strömmen innan installation och underhåll för att förhindra elektriska stötar stötar.

# Hootronic wiring configuration with «Tail-Off» function

AC power supply connections should be made to the "L", "N" and "E" terminals. To remotely switch the second and third stage sounds, cable into the terminals marked "C", "S2" and "S3" respectively. To activate the second and third stage sounds switch "S2" or "S3" to the "C"

cable whilst the unit is powered (see Fig.1 on previous page). Stage 2 overrides stage 1 and stage 3 overrides stage 2.

The Hootronic sounder has the facility to replicate the "tail-off" traditionally associated with these tones, when generated by electro-mechanical devices. The switching is achieved by cabling into the terminals marked "STOP" and "C". The user can remotely activate and de-activate the sounder by switching the connection between "STOP" and the "C" cables whilst the unit is powered. To achieve the "tail-off" sound at switch off, the unit must remain powered.

In other words, linking between "Stop" and "C", silence the sounder. Braking the link between "Stop" and "C", activates the sounder.

**DC** power supply connections should be made to the "+ and "-" terminals. To remotely switch the second and third stage sounds, cable into the terminals marked "S2" and "S3" respectively. To activate the second and third stage sounds switch "S2" or "S3" to the negative supply whilst the unit is powered (see Fig.1 on previous page).

Stage 2 overrides stage 1 and stage 3 overrides stage 2.

The Hootronic sounder has the facility to replicate the "tail-off" traditionally associated with these tones, when generated by electro-mechanical devices. The switching is achieved by cabling into the terminal marked "STOP" and "-". The user can remotely activate and de-activate the sounder by switching the connection between the "STOP" wire and the negative supply line ("-") whilst the unit is powered. To achieve the "tail-off" sound at switch off, the unit must remain powered.

S2 S3

0 0

Stop

0

In other words, linking between "Stop" and "-", silence the sounder. Braking the link between "Stop" and "-", activates the sounder.

