

Technical Bulletin

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Audible signals: What is automatic synchronization?

If more than one horn (sounder) is connected to the same power circuit and the voltage is switched on to the devices at the same time, then the alarm tones from all the horns will remain synchronized for at least 30 minutes. This applies to both ac and dc devices.

All of the horns on the circuit must be set to give the same tone output for both ac and dc voltage rated devices.

The benefit of this feature is to make sure the audible signal remains clear and uniform throughout the installation thereby enabling the use of multiple horns. This is of particular importance when using voice such as the E2S Appello X user recordable alarm horns.

The effect is similar to a centrally generated tone or audible output supplied to a number of individual speaker amplifiers.

The automatic synchronization feature is inherent and no further cables such as audio feed / screened cable are necessary, simply the correct gauge of power supply cable to accommodate the current consumption of the multi horn circuit. The power supply cables may also be fault monitored by a control panel when necessary, typically, reverse polarity monitoring in the case of a dc voltage supply.

Applicable product ranges

[AlertAlarm](#)

[Appello](#)

[BEx explosion / flameproof](#)

[GNEx explosion / flameproof](#)

[GPH buzzers](#)

[E2x non-sparking](#)

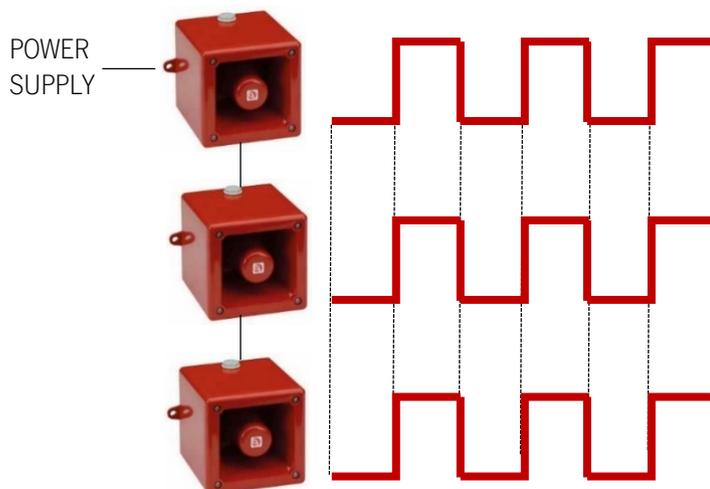
[Hootronic](#)

[IS intrinsically safe](#)

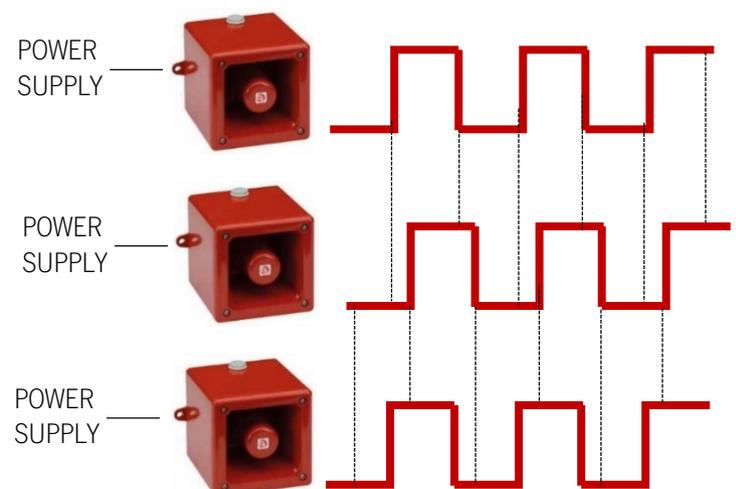
[M heavy duty signals](#)

[Sonora](#)

Synchronized Output



Unsynchronized Output



Please note: Devices on the circuit can be different models from the E2S range.

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