

SPECIFICATIONS



Housing	Cover		Polycarbonate
	Back-plate & Lens		Polypropylene
	Dimensions Overall Housing	(LxWxH) Logo Area(LxW)	284 x 170 x 50 mm 258 x 111 mm
	Weight		654.2g
Tamper	Swinging Micro Switch		Front / Back
Hold-Off	Working Voltage		13.2 V Nominal (10V 15V)
	SAB Auto Activation		7V Nominal (5V - 8V)
	Standby Current	Alternating LED's Constant LED's	42.3 mA 53.3 mA
Xenon Strobe	Working Voltage		13.2 V Nominal (10V 15V)
	Current		130 mA Nominal (150 mA Max.)
	Tube		2W Linear Xenon
	Flash Rate		1 Hz Nominal (50-120 per min.)
Sounder	Trigger		Negative Applied
	Current	Single Piezo Twin Piezo	125 mA (160mA Max.) 265 mA (300 mA Max.)
	Sound Pressure	Single Piezo Twin Piezo	114 dBA @ 1M (116 dBA Peak@ 1M) 117 dBA @ 1M (119 dBA Peak@ 1M)
	Trigger		Negative Applied / Positive Removed
	Cut-Off Timer	A T	20 minutes nominal 5 Seconds Nominal
Battery	Voltage		6V
	Charge Current	Trickle From Discharged	5.5 mA Nominal 13.8 mA Max.
	Charge Time		24 Hours
	Type		NimH / Nicd
Product Coating	Type		HPA , High Performance Acrylic
	Military Approval		MIL-1-46058C
Electronics	Pulsar AU3000 Ultra Lite		19.X F1xx
Temperature	Storage		-25°C to +60°C
	Working	Electronics Battery	-25°C to +55°C Nom. +15°C; Min. 0°C, Max.+65°C
Standards	European Safety		CE
Warranty			2 Year (Return to Base)

3mm
ABS+PC

2W
Xenon Tube

6 V
Ni-mH

2
Sound Options

114dB
Single Piezo

117dB
Twin Piezo

Twin
Status LED's

2
Year Warranty

Front
Back
Tamper



Sounder^{EAS-280}

FULL FEATURE • UNIVERSAL MOUNTING
WITH INTEGRATED SOUNDER / STROBE



The Manufacturer shall have no liability for any death, personal and or bodily injury and or damage to property or other loss whether direct, indirect, incidental, consequential or otherwise, based on a claim that the Product failed to function. However, if the Manufacturer is held liable, whether directly or indirectly, for any loss or damage arising under this limited warranty or otherwise, regardless of cause or origin, the Manufacturer's maximum liability shall not in any case exceed the purchase price of the Product, which shall be fixed as liquidated damages and not as a penalty, and shall be the complete and exclusive remedy against the Manufacturer.

E&OE

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WIRING CONNECTIONS

HOLD OFF + These terminals provide the inputs to SUPPLY the SAB/SCB circuitry with 12V constant un-switched supply. The positive terminal is also used to provide the positive supply for the strobe circuitry. The negative terminals as part of the tamper return.

TRG Provides the input for the negative applied signal used by the control panel to TRIGGER the sounder, ie., an intruder activation. In the UK the signal is normally a switched negative to activate the sounder.

STB - Provides the input from the control panel for the negative applied signal, which is required to activate the xenon STROBE. This input is independent of the sounder input, normally used by the control panel to allow the strobe to continue flashing after the sounder has stopped. In the UK this signal is normally negative applied. Some control panels also have a Strobe(+), if the panel being wired does have a Strobe(+), it should be ignored and have no wires connected to it. During operation the xenon tube utilises a high voltage across its terminals to create the intense flash. This voltage can exceed 250V DC and the strobe tube should never be touched. A high voltage can remain across the strobe for some time after the supply has been removed. Never activate the strobe with the PCB out of its protective case. Extreme care is advised to remove the risk of electric shock.

RTN Provides the switched negative RETURN signal required by the control panel indicating that the tamper switch is closed, when closed the signal is a constant negative.

Sounder + Sounder output, these terminals are high voltage and are only suitable for driving the Piezo sounder provided. NEVER connect any other wires to these terminals, or touch these terminals if the sounder is activated as there is a risk of electric shock.

Battery + Provides the terminals to connect the backup Ni MH/NiCd rechargeable battery required to activate the SAB/SCB circuit if the "Hold-Off" Voltage is removed. To activate the battery the battery jumper must be connected to complete the installation. NiMH/NiCD rechargeable batteries generally require replacing every three to five years to ensure correct SAB/SCB function.

Connections for **Pyronix**
Paragon E, Paragon Plus,
Paragon Super, Sterling 10
Control Panels



**Paragon E
Conqueror**

STB -
B +
S -
BT
BA

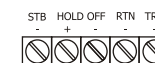
**Paragon Plus
Sterling 10**

STB -
B +
B -
BT
BA

Paragon Super

STB -
S +
B -
BT
BA

Connections for
Ademco Accord,
Vista 4115UXM
Control Panels



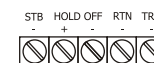
Accord

STB -
BELL +
BELL TAMP
BELL TAMP -R
BELL -

Vista 4115UXM

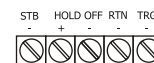
STB -
12V +
OV(ZONE 9)
TR(ZONE 9)
BELL -

Connections for
DSC Rebel
Control Panels



ST
HO
OV
AT
BELL

Connections for **CK**,
Securit ST700L, STB800L,
ST802 & Bravo 700, AP28/200
Control Panels



**ST700L
ST800L**

STB -
BELL +
BELL -
R -
S -

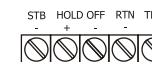
**ST802
AP28/200**

ST -
BELL +
AUX -
R
S

BRAVO 700

STB -
BELL +
V -
R
S -

Connection Record



COLOURS

CONTROL PANELS
CONNECTIONS

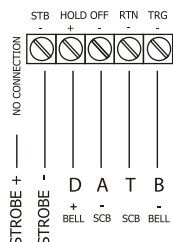
NOTE: STROBE (+)

The Sounder does not require a strobe (+) connection. If the control panel to be connected has a strobe (+), ignore the terminal and make no connection to it.

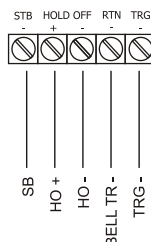
Please Note: DSW are pleased to include reference diagrams, but all information is given in good faith and without warranty.

Connection Diagram Examples

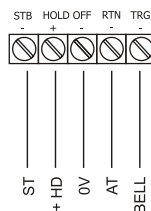
Connections for **ADE, SL** (Chloride Security Lighting) Accenta, Optima, Logic 4, Compact, Concept, Ideal, Ultimate. Control Panels.



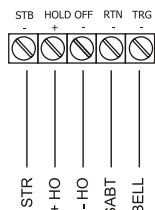
Connections for **Menvier** TS5000 Control Panels.



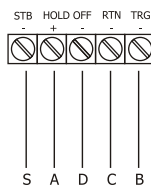
Connections for **DA** Control Panels.



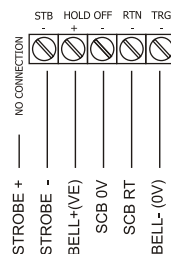
Connections for **Castle Care-Tech** Control Panels.



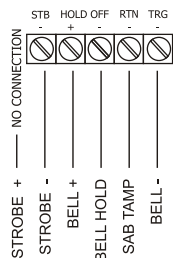
Connections for **Texecom & Regal** Safe Veritas, Compact, R8, Regant. Control Panels.



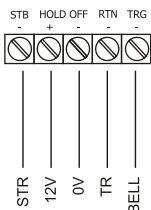
Connections for **A1 & Micromark** Omnicron, AJ6 etc. Control Panels.



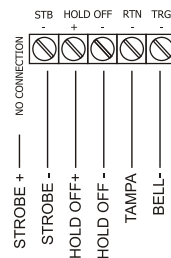
Connections for **Gardiner Technology** 300, 500, 800 Control Panels.



Connections for **Scantronic** 9448, 500R+ Control Panels.



Connections for **Visonic** Power Max Control Panels.



May require Visonic AT202 Module

Please Note, DSW Electronics endeavor to provide exact referenceconnection diagrams, it is beyond the scope of these instructions to guarantee the exact terminal descriptions and positions as third party manufactures may make modifications without notice.

INSTALLATION GUIDE

Operation

Step

1. Decide and select which features and modes are required, ie., LED's either "alternating" or "constant", sounder either "high-low" or "sweep" and mode either "SAB" or "SCB". A detailed description of the options can be found on pages 4 & 5.
2. Drill all holes required for mounting the Sounder, a template is supplied on the rear of the cardboard carton. Insert suitable rawl plugs to provide a strong and secure installation.
3. Move the white "Timer" jumper link to the "T" position. Now move the red "Battery" jumper link to the "on" position, the sounder will now start and continue for 5 seconds, then silence. Once the sounder has silenced, move the white "Timer" jumper link back to the "A" position. The sounder will remain silenced allowing all work to be carried out without unnecessary noise. This operation also tests the action of the dual fail-safe timer.
4. Fix the back-plate assembly to the wall with suitable screws. Connect the wires necessary for the control panel, make a note of the colour and terminals for later. Do not connect to the control panel yet. Aspace is provided on page 7 to make notes.
5. Fit the sounder cover, ensure the micro-switch is operating correctly and fasten the cover screw. When the cover is shut the micro-switch should be heard to click. If it does not click, bend the lever as necessary to ensure the switch does click when the cover is closed.
6. Now wire to the control panel, the wire colours recorded in step 4 should aid in this process. Alist of well-known control panel connection diagrams can be found on pages 6 and 7.
7. It should now be possible to see the green and red LED's in the side lens, they will either be flashing or constantly illuminated depending on the jumper link selection made earlier.

Commissioning & Testing

Operation

Step

1. It is now possible to provide a negative trigger from the control panel which will activate the Pulsar sounder. Allow the sounder to continue ringing for 10 seconds. This ensures the test link has not been left in the "T" position.
2. If necessary, remove the cover screw and lift off the front cover, the sounder should start and also provide a tamper fault to the control panel. Verify that the red LED is not illuminated. Replace the cover and screws. The red LED should illuminate again, Depending on the control panel and its functionality, the sounder may stop. If it fails to stop, the control panel will need resetting as per its instructions.

SPECIAL FEATURES

Selectable Options

Timer Select - *White Jumper*

(Included on all Models)

- A** Provides standard 20 minute cut-off timer. *(Factory Default)*
- T** Provides a 5 second sounder and timer engineer test. During installation and service this feature can be used to quickly silence the sounder at anytime.

Battery - *Red Jumper*

(Included on all Models)

- OFF** In this position the battery is isolated, it can be used to quieten the sounder when no Hold-Off Voltage is present. *(Factory Default)*
- ON** When in this position, the battery is connected in circuit, enabling the SAB/SCB Sounder circuit and battery charging circuit when Hold-Off Voltage is present.

Sounder Mode - *Blue Jumper (Inside Case)*

- SAB** This is the standard sounder operation mode. It stands for Self Activated Bell. When the sounder is activated, its current is drawn from the control panel, except if the Hold-Off Voltage is removed or is missing. It provides maximum sounder volume. *(Factory Default)*
If selectable feature is excluded, sounder will be set to SAB only
- SCB** In this mode when the sounder is activated the current is provided from the on-board rechargeable battery, not from the control panel. This feature is ideal for secondary sounders where the control panel or power supply does not have sufficient current load capacity.

LED Selector - *Black Jumper (Inside case)*

- ALT** When selected the Status LED's alternate from side to side. *(Factory Default)*
- CONST** When selected the red and green Status LED's are illuminated constantly and do not flash

Siren - *Yellow Jumper (Inside case)*

- Hi-Lo** When the sounder is activated it will sound like a British police car. It provides sound that travels well and is distinguished well from background noise.
- Sweep** When the sounder is activated it sounds like an American fire engine. It provides a higher pitch sound very effective over shorter distances. It is perceived to have a higher volume over small distances.

High Bright LED Status Indicators

Provides a visual indication of the Compact status and health, idea for end user comfort, intruder deterrent and engineer feedback.

These LED's display at all times regardless of the set or un-set condition of the Control Panel
(Included on all Models)

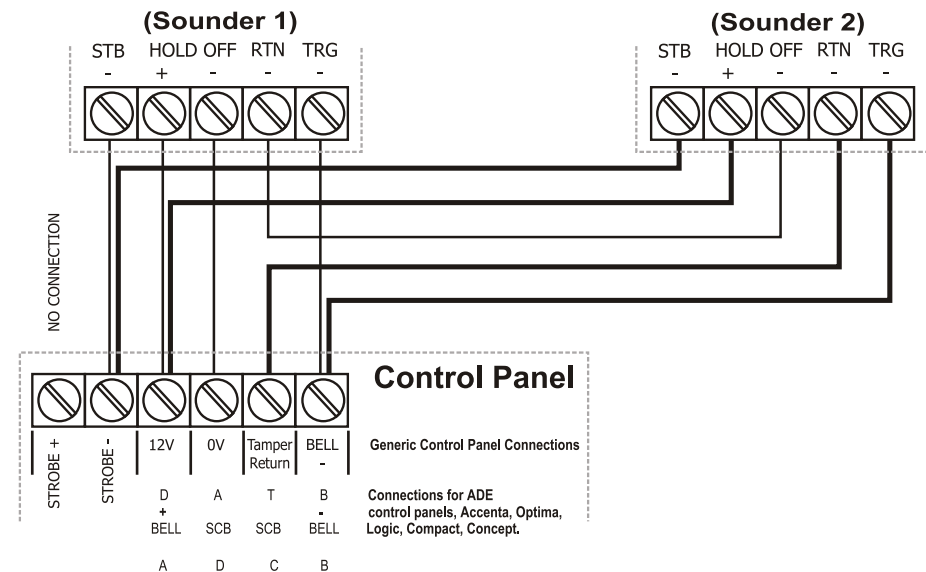
- Green LED** Illuminates when the Hold-Off Voltage is connected correctly.
- Red LED** Illuminates only when the tamper switches are closed correctly and the Hold-Off Voltage is present.

Engineer Sounder Hold off Facility

This feature allows an engineer to work on the Sounder with as little noise as possible. Limit the alarm ring time to a maximum of 5 seconds, simply move the white timer link to the "T" test position. In this position whenever the sounder is requested to ring, it will do so for a maximum of 5 seconds. During installation, this can be very useful

With this feature it is possible to completely install a Sounder even without actually completing the wiring to the control panel, ideal for a first fix installation. Simply fit the timer link to "T" test position and turn the battery on by moving the battery link to "ON". The sounder will be activated for 5 seconds then stop. Move the Timer link back to the 'A' position and leave the battery on, fit the Sounder making a note of the wire colours used. The completion of the control panel wiring to the Sounder may now be at the installer's discretion. Should the control panel not be wired for a number of days, the on-board battery may flatten and will take 24 hours to recharge. This is quite normal.

Connecting Two Sounder is Simple



The easy way, Bringing Both Sounder Cables Back to the Control Panel

Simply run both sounder cables direct to the control panel. Connect both sounders in parallel to the control panel connections i.e. two wires in each terminal; reference diagrams are provided on pages 6 & 7. Now from sounder ONE (Primary Sounder) remove the RTN wire from its terminal in the control panel and from sounder two remove the Hold OFF (-) from its terminal in the control panel. Finally now join the two loose wires together, with a piece of connector strip. **Finished**

The Easy Way, Bring One Primary Sounder Cable to the Panel.

Simply run the primary sounder cable direct to the control panel, and the secondary sounder cable to the primary sounder. Connect the secondary sounder as standard. Now in the primary sounder connect both sounders in parallel, i.e. two wires in each terminal; reference diagrams are provided on pages 6 & 7. Now in the primary sounder, remove the RTN wire connecting to the secondary sounder from its terminal, leave wire loose, now again in the primary sounder remove RTN wire, which connects to the secondary, i.e. connect both RTN wires together. Again in the primary sounder move the wire from the Hold off (-) terminal connecting the secondary sounder to the RTN terminal. Finally, wire the primary sounder as standard to the control panel: see diagrams on pages 6 & 7. **Finished.**