Bella™ 2, 3L Siren and LED Strobe

INSTALLATION INSTRUCTIONS

Description
Bella 2 and 3 LED new outdoor Piezo Sirens with High Power LED Strobe Light for intruder and fire alarms, compatible with all alarm panels. The compact and heavy-duty plastic case suits indoor and outdoor applications. Electronic board is enclosed in internal sealed housing; all screws are stainless for outdoor environment. The Bella 2 & 3 siren trig is special; Goes into alarm when the charging 12V from panel drop to under 6V, program alarm panel accordingly.

Available Models
Bella 2L: Outdoor cabinet Piezo Siren, with power ON blinking LED. Bella 2 & 3 contains a four minutes siren timer (timer don't apply to the Strobe), LED Strobe light, with 13.8V charger and processing circuitry for the back-up battery, Dual Tamper switch.
Separate siren and strobe triggering is optional.
Bella 3L: As Bella 2 plus frontal metal barrier protection

Installation Instructions

Step One: Location
Open the front cover by removing the frontal upper screw. Locate the siren in a hard-to-access location, as high as possible, away from heat, water and rain sources.
Use four (4) screws to attach the siren housing to a solid wall.
Bella 3: Remove the metal cover, complete wiring, attach to wall and then close the metal cover screws.

Step Two: Wiring (refer to figure 1 and 2)
1. Disconnect DC Power and battery at control panel
2. The Bella is compatible with most alarm panels, operates with or without battery.
If an Av-Gad EasyLoader panel is connected: The terminals –STBR and –TRG are not connected. Program address 072 option 1 (Bell Mode). Program at address 073 options 3 (Enable-Self contains Bell): Panel's -SIR supplies -V during standby and none –V at alarm. The +SIR supplies 13.8V DC (referred to –Sir) at idle and none at alarm.
If used without battery (<u>not recommended</u>) refer to fig. 1 wiring. When used <u>without battery</u>: Connect the +13.8 and –SIR to 12V supply (Aux power), also short the Red battery lead to +13.8V terminal.

-STBR	Strobe activated when applying -V to this terminal
+13.8	+ 13.8 VDC input to siren battery charge. This terminal is referred to –SIR. Used with Bella internal battery. This is the positive (+V) to siren. When this terminal is <u>under</u> 6V Bella goes into alarm. Connect this terminal to the control panel +SIR terminal.
-SIR	This is the negative (-V) to siren. Connect this terminal to the control panel –SIR.
-TRG	Siren activated when applying -V to this terminal (this terminal is referred to –SIR). Use -TRG when Bella is used <u>without</u> the internal battery, connect it to +SIR at the panel
TMP	Tampers contact. Connect to zone input
+BAT	Positive lead (Red Wire) for SLA rechargeable battery
-BAT	Negative lead (Black Wire) for SLA rechargeable battery

3. Wire the Tamper from 'TMP' two wires terminal to a zone in the control panel. Program the Tamper zone as 24H or Tamper type.
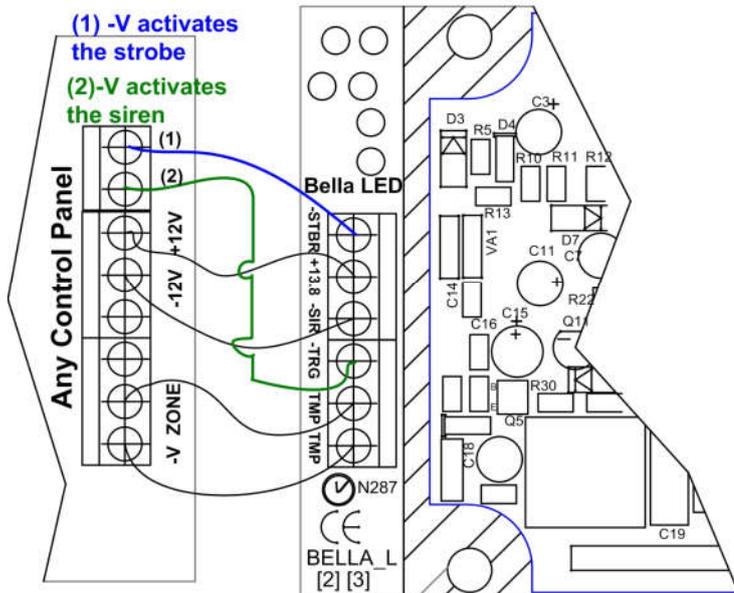
Activates Siren and Strobe w/o Batt

(1) -V activates the strobe
(2) -V activates the siren

Figure 1: Bella 2/3L wiring to any panel

Activates Siren and Strobe with Batt
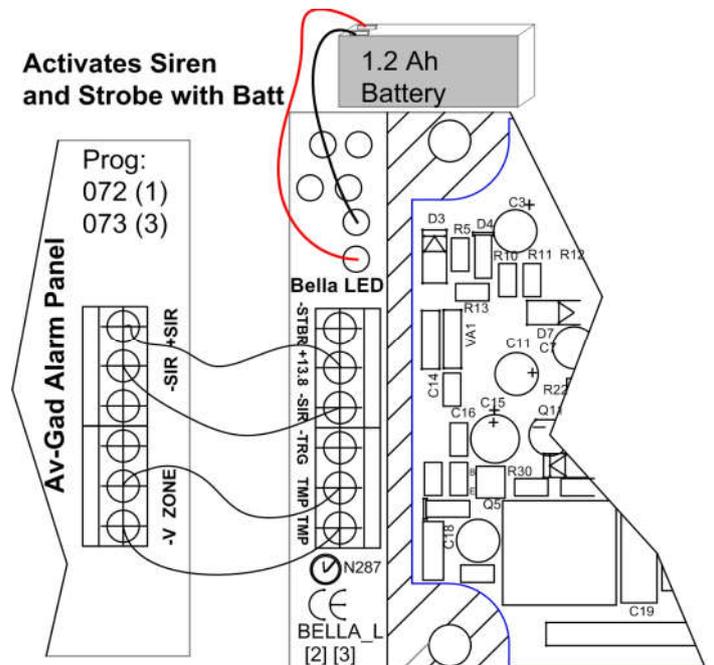
1.2 Ah Battery

Prog: 072 (1) 073 (3)

Figure 2: Bella 2/3 L wiring to Av-Gad panels

Step Three: Powering-up

1. After the wiring Bella siren to the panel is completed, re-check the polarity, power up the panel.
2. Connect the siren battery; Red is (+) terminal. The first strobe blink is delayed for 2-3 seconds. Use a new and fresh 12V, 1.2 or 1.5 A/H SLA rechargeable battery.
3. Power-up the control panel.

Step Four: Testing

Close the Bella enclosure. Generate alarm condition; check that siren and strobe light are functioning correctly. Bella circuitry is protected against high voltage supplied to +13.8V and battery, if such voltage supplied the siren operation is blocked.

Open the Bella enclosure; check the Tamper is activating the alarm panel.

Bella 2, 3 with battery: Disconnect the Aux. Power, verify that siren and strobe keep alarming when power supplied by the internal battery.

All types: Open the box for Tamper test. Close the cover and tight the screw mounted in the front face. Note: Consider battery service once a year.

Bella 2L 3L Specifications	
Operating Temp: -25 to +70 C°	Strobe flash rate: One per 1.8 seconds
Humidity: 80%	Strobe output: Power LED ~ 50,000 candle
DC Input: 13.4 – 14.2V	Battery: SLA Reachable 12V, 1.2-1.5 AH
Standby Current: 20 mA + charge current	Cabinet Type: ABS @ IP-55
Bella 1 current: 0.5A. Bella 1_I: 0.13A	Strobe Lens: Orange standard or Blue
Bella 2, 3 Alarm (Siren & Strobe): 0.3A	Piezo Siren: Reflective Piezo Ceramic
Bella 2 sound level: 110 dB @ 1 m	Tamper: Remove from wall & Open case
* Bella 3 sound level: 108 dB @ 1 m	Size: H=22, W=15, D=9 (cm)
Battery Charger: Maximum 350 mA	Weights: Bella 2 0.8 kg. Bella 3 0.95 kg

* Sound level is factory adjustable for countries that require lower sound level

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