



# Installing the i-Lite™ Sensor in Commercial Applications Intended for Installation by Qualified Personnel

## Part # BSVA2001

Battery Watering Technologies

### This Package Contains:

- 1 - i-Lite™ BSVA2001 Sensor
- 1 - Grommet
- 3 - Cable ties
- 1 - Lens & lock washer

### Tools required for installation:

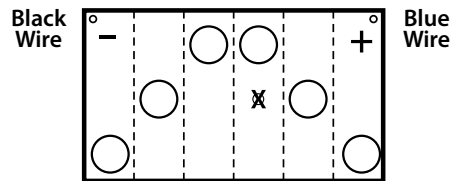
- Towel to wipe down the top of the battery
- Drill
- 1/2" (12 mm) drill bit
- 5/16" (8 mm) drill bit
- Insulated wirecutters



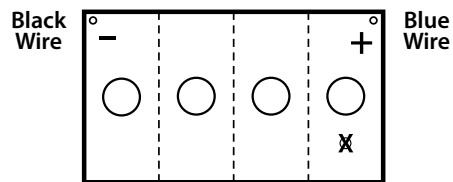
- Always wear personal protective equipment (goggles, gloves, etc.) to protect yourself from sulfuric acid.
- Be sure the battery is disconnected from the charger to ensure the cells are not gassing before proceeding.
- Not recommended for use with battery additives.
- Read instructions in entirety before beginning the installation.

### STEP 1: PLAN

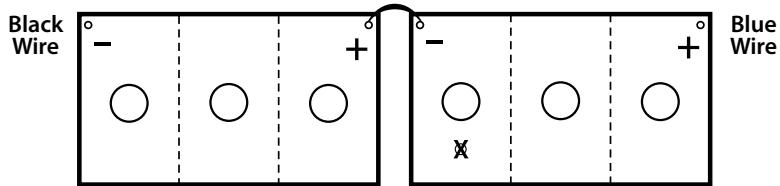
The electrolyte probe must be at least 4 cells to the positive side of the negative (black) wire connection. Take this into consideration when planning your installation. The sensor needs 8-12 volts to function properly. The drill location is noted by the X



Example of installation on a set of 12 volt batteries.  
X indicates drill zone.



Example of installation on a set of 8 volt batteries.  
X indicates drill zone.



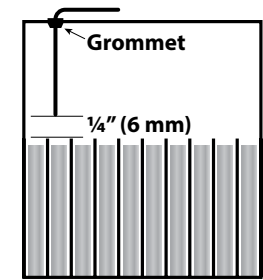
Example of installation on a set of 2 - 6 volt batteries.  
X indicates drill zone.

### STEP 2: Drill

See above diagram to determine where the electrolyte probe will be inserted. **(Reminder: you must have at least 4 cells to the positive from the black (negative) wire).** Drill a 1/2" hole in the cover of the level probe cell. The hole should be drilled between the vent opening and the edge of the cell to avoid cell internals. Do not drill into the battery plates. Use the BSVA-DR drill bit for best results.

### STEP 3: TRIM PROBE

Cut the probe to length. When fully inserted, the tip of the probe should be approximately 1/4" above the plates or moss shield. Insert the grommet into the hole and then insert the probe through the hole in grommet.



Trim end of probe 1/4" above plates or moss shield

### STEP 4: CONNECT

Follow the diagram under step 1 to determine where to connect the blue and black wires for 6 volt, 8 volt, and 12 volt systems.

### STEP 5: SECURE HOUSING

Secure the sensor light housing using cable ties supplied. Make sure wires are secured so they cannot be snagged or pulled.

### STEP 6: MOUNT REMOTE LED

Drill a 5/16" hole in the dash panel to accept the LED indicator. Insert the lens into the hole from the front. On the back side of the panel, put the lock washer on the lens and tightly twist the assembly together. It is suggested to use thread-locking fluid to lock.

### LED COLOR CODES

*Solid Green LED* - Battery is OK

*Solid Red LED* - Add water only after the next full charge

*Blinking Red LED* - Electrolyte level has been below the probe for more than ten (10) days

To find out the number of days the system has been low on water, simply disconnect the (BLUE-POWER) wire for five (5) SECONDS and then reconnect. The device will go into RESET MODE. Count the number of blinks to determine how many days / months the battery was low on water. A fast blink indicates how many days it was without water. A slow blink indicates how many months.

### Reset Mode:

*Fast blink* - days

*Slow blink* - months

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