



# BLI-01

## Battery Low Indicator for 9V & 18V Systems

The BLI-01 is designed to indicate when the life your 9V or 18V battery system is declining, towards the end of its life. But importantly, there is still some useful life in the battery when the high brightness warning LED begins to flash, around once per second. This unit is ultra low power such that its requirement is totally insignificant in terms of the overall battery life.

This is very different to the type of indicator where an LED may be fully lit, which in many cases, is likely to take more current than the system being monitored.

### • OPERATION

#### • **NEW or GOOD BATTERY**

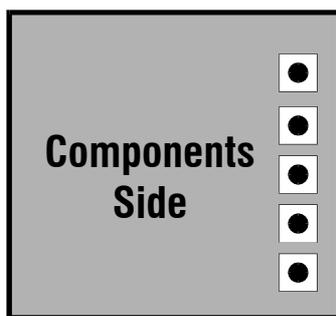
The warning LED stays off while the battery voltage is continuously monitored by the control circuit, which takes absolutely minimal power from the battery.

#### • **DECLINING BATTERY**

Once the battery voltage drops below a preset threshold, the high brightness warning LED begins to flash around once per second. Again the power used to flash the LED is absolutely minimal, since the LED is actually lit for just a few millionths of a second at each flash. Due to the image retention properties of the eye, it appears to be longer and is readily visible.

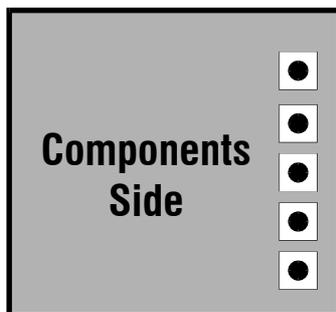
### • POWER

- This can be connected for 9V or 18V operation. **IMPORTANT: 9V or 18V, but not both simultaneously!**
- Ultra low current consumption, typically 2.1 uA during the monitoring of a good battery.
- Typical average current when the battery low indicator is flashing: 25 uA.



- ← ORANGE Wire for 18V
- ← RED Wire for 9V
- ← LED +VE
- ← LED -VE
- ← BLACK Wire GND

Connect either the Red or Orange wire. Then remove or insulate the remaining wire.



- ← Connect to RED Wire of 18V Battery System
- ← Connect to RED Wire of 9V Battery System
- ← WHITE Wire of LED
- ← BLACK Wire of LED
- ← Connect to GND Pin of Jack

