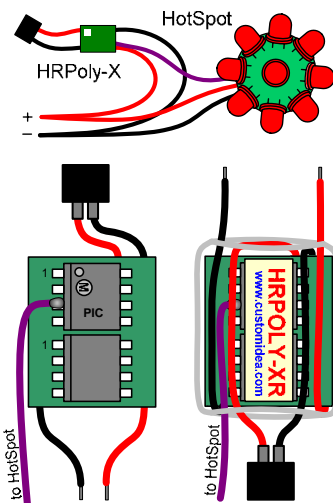


Overview: The HotSpot is a cluster of nine intensely bright LEDs which can be switched on or off via a control signal. The HRPoly-X is a low voltage warning device for lithium polymer batteries originally intended for micro electric helicopters but increasingly employed on larger models and planes. The small red/green LED and sounder on the stock HRPoly-X can be difficult to notice on a large model far away and for this reason the HotSpot was developed. Once installed correctly, the HotSpot will mimic the inverse of the green LED behaviour on the HRPoly-X, meaning that the moment your HRPoly-X user set limit has been reached, the HotSpot will switch constantly on, warning you to land.



What you need: As shown to the left, all you need to perform the upgrade is your original HRPoly-X and the HotSpot retrofit kit which contains the HotSpot, some replacement heatshrink and a HRPoly-XR upgrade label. Note that with higher supply voltages (e.g. 4 cell packs) the back of the HotSpot can get too hot to touch. We recommend that you bear this in mind and handle the device with caution. The following steps outline the process to upgrade your HRPoly-X with the HotSpot:

1. Remove the existing heatshrink from the HRPoly-X by using a sharp knife to cut down the edge of the PCB, through the heatshrink.
2. Carefully unwrap the power and sounder wires from around the board, to reveal the two small 8 pin ICs.
2. Solder the purple wire onto the pin 3 of the PIC as shown. The PIC is the chip at the same end of the board as the LED (but on the other side). Ensure the solder joint does not short any other pins.
3. Replace the HRPoly-X label with the new HRPoly-XR label.
4. Carefully wrap the power and purple wires back around the PCB as shown and slide on the new heatshrink
5. Use a hot air gun to shrink the new heatshrink
6. Connect the HotSpot power wires to your power connector

Adjusting the spots: The nine intensely bright LEDs are extremely eye catching even at a distance. The product is designed such that you can position the LEDs exactly how you wish for example all pointing forward for a blinding single spot or pointing in all different directions for maximum visibility. Don't bend the LED legs too many times, however, as this may lead to them breaking.



Technical information: Supply voltage: 6-16V; Supply current: <100mA; On control voltage: > 1.6V; Off control voltage: < 0.16V; Control signal current: <20µA; Wire length: 35cm; Over temp/current protection.

Contact: If you have any problems or questions about this device, or are kind enough to give feedback, comments or suggestions then please do not hesitate to email: support@customidea.com.

WARNINGS:

The user is responsible for correctly connecting this device
The device is not protected against reversal of polarity

The back surface of the device can get very hot during use
Do not stare directly into the device when the LEDs are on