

## Fitting the Noise-suppressing Capacitor

### Recommended for installation

Due to the high gain stages associated with amplifying the IR signals of the **Photon's** battery powered transmitter, the infrared receiver is susceptible to picking up trace levels of power supply noise, which can in turn lead to erratic operation of the beams.

For this reason, a noise-suppressing – or 'Y' – capacitor with wire harness has been included in this kit and must be fitted in order to alleviate the electrical noise associated with the amplification process. The inclusion of this capacitor has been conclusively found to return the output signal to normal.

### Identification

4.7nF 275V capacitor with two leads, both with soldered tips for ease of connection

### Procedure

- To be effective, the Y capacitor must be fitted between the system negative and the incoming power supply earth. If the **Photon** beams are being used to provide safety in an automated gate setup, one of the common terminals on the gate motor controller will constitute an effective system negative

1. Connect one of the leads to the incoming power supply earth.

2. Connect the other one of the leads to the Com terminal.

- The capacitor may be housed within the gate motor enclosure, and you should now be able to enjoy unimpeded operation of the **Photon** infrared gate Safety Beams

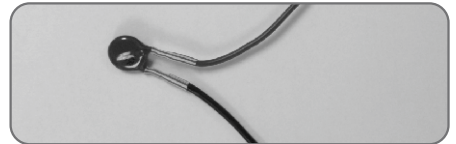


FIGURE 1

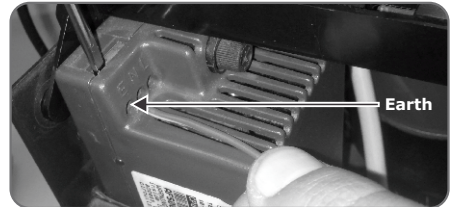


FIGURE 2. CONNECTION TO D5-EVO

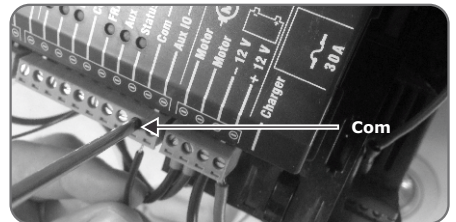


FIGURE 3. CONNECTION TO D5-EVO

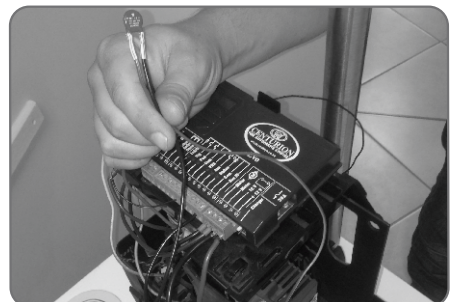


FIGURE 4. CONNECTION TO D5-EVO

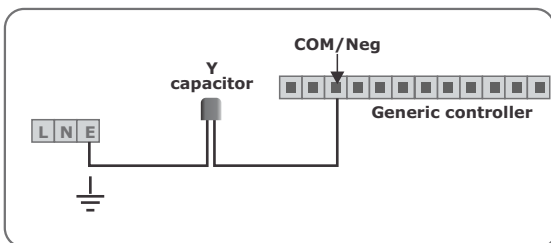


FIGURE 5. CONNECTION TO A GENERIC CONTROLLER