

FUNCTION

The ILC In-Line Choke is a small wire-in electronic device that is designed to be installed to keep electrical noise generated by certain electrical devices off of the powerline which may interfere with the PulseWorx products' ability to communicate with one another. The ILC is rated at 1.8 Amps maximum at 120VAC.

Why Would I Need an ILC?

Some electrical devices that connect to the power mains (such as fluorescent ballasts, motors, etc.) can generate a significant amount of electrical noise. This noise can sometimes be severe enough to interfere with reliable UPB communications. By adding an In-Line Choke to the offending device the electrical noise that gets onto the powerline can be cut down significantly.

INSTALLATION

Note: Installation must be carried out by a qualified electrician only. The main breaker must be turned off during installation and the ILC must be installed within the offending device's enclosure. Installation must be carried out in accordance with all applicable codes and requirements, including, but not limited to, the National Electrical Code (NEC).

1. Turn off the power at the main breaker panel.
2. Open the device's enclosure and locate the black wire that supplies line (hot) voltage to the device (see Figure 1).
3. Break the connection by either removing the existing wire nut or cutting the wire (Figure 2).
4. Install the ILC between the two open wires (Figure 3). The ILC can be wired in either direction. Use appropriate wire nuts to make a good electrical connection.
5. Close the device's enclosure making sure not to pinch any wires.

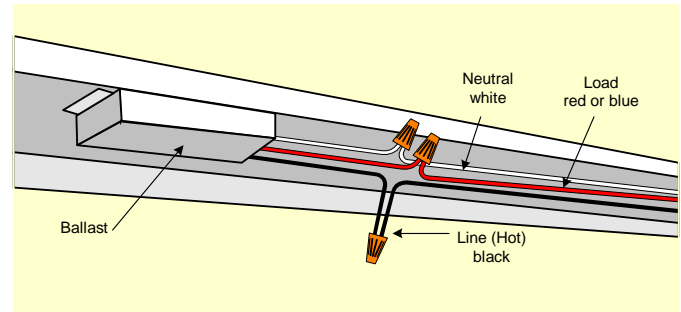


Figure 1: Locate the Line voltage (black) wire

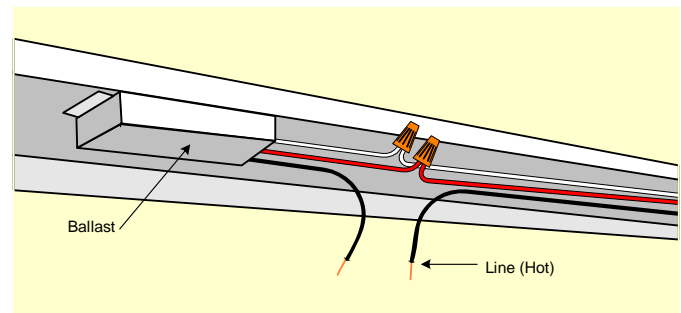


Figure 2: Break the connection

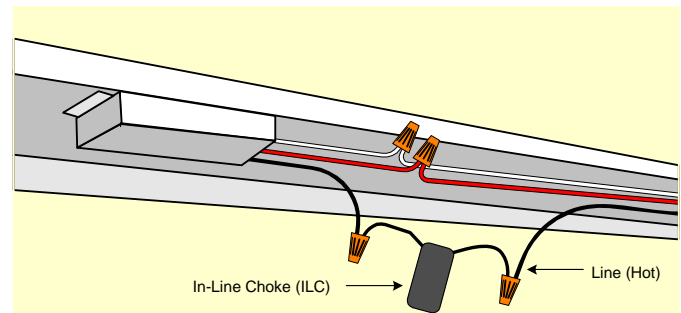


Figure 3: Connect the ILC in line

OPERATION

Once the ILC is properly installed the noisy device can be powered on and tested. Use UPStart Setup Software to monitor the noise on the powerline. You should now see a significant reduction in the noise level.