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## Problem: Hi Pot Testing LED Drivers?

### **Question:**

*Why do LED Drivers from Thomas Research Products fail our fixture hipot test?*

### **Answer:**

All LED Drivers from Thomas Research Products include a basic level of internal surge protection. This is typically comprised of MOVs between the input wires and ground. This internal protection will appear as a short to a hipot test, therefore it is impractical to perform a hipot test on these drivers.

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**Note:** Performing this hipot test can also **permanently damage** the drivers' internal surge protection, thus leaving it vulnerable to damage from future transient voltage events. We recommend avoiding hipot testing of LED luminaires that utilize TRP's drivers.

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The internal surge protection provided in our LED drivers is adequate for commercial indoor applications. It is not designed to provide sufficient protection from dangerous transients that can happen in outdoor applications or industrial settings.

TRP offers the BSP3 and FSP3 families of surge protectors designed to provide low-cost, effective transient safety for LED luminaires and electronic fluorescent or HID ballasts.

### **More About Driver Protection:**

For complete information and a comparison of the protections built into TRP drivers:

- Over-Voltage
- Over-Current
- Short Circuit
- Over-Temperature

please see our LED [Driver Protection](#) document on our website FAQ page.