


# Perimeter Electrical System: Smart Box Infeed Guide

## Smart Box Power Infeed Specifications -

### Utilizes a Normally Open Relay

- Eliminates power being present on AC plug in a Dual Power situation.

### Includes Dual Power Supply Sensing Circuitry.

- Shuts down both supplies if Dual Power condition exists.
- Indicator LED flashes  alerting user of incorrect condition.
- Corrected condition returns system to normal operation.

### Added "Micro" chip to circuit design for control of device logic.

- Allows for firmware changes/additions

### Increased board conductor trace sizes on AC power circuits.

- Provides robustness to board for current carrying capability.

### Wiring assembly quality

- All connections for power in/out and sensing are modular plug connections.
- Modular plugs assemblies will be tested prior to installation in assembly



### Die cast metal body and sheet metal base

- Resists physical damage in floor application.
- No chance of housing "melting" from abuse.

### Changes connector keying of system

- Perimeter will not mate to existing Next Connect products.
- Maintains new design safety, integrity and reliability.

### Location of LED indicator

- Eliminates possible LED damage in floor use application.

## Perimeter Preliminary Diagnostics - LED Light Indicator Functions

1. Unit has "GREEN" LED "On" and power is available without receptacles connected to output.
2. Unit has "GREEN" LED "On" and power is available when 1 to 8 receptacles are connected to output.
3. Unit has "RED" LED "On" when 9 or more receptacles are connected to output. No Power is available.
4. Unit has "RED" LED "Flashing" when system is Dual Powered. No Power is available.
5. Unit functions correctly when 12 Amps of load are applied in test conditions 2,3 & 4.
6. If more than 12 Amps of load is applied, the breaker on the Smart Box will trip.

