# **TRANS**

## PPU-109DA

## Power Pack & Controller



### **OVERVIEW**

The PPU-109DA is a DALI/0-10V selectable power pack and controller designed to provide standalone or network based smart lighting control with the connection of IR-TEC's SmartDALI sensor. This device not only supplies bus power for operating the connected sensor, but also provides DALI/0-10V output to control the integrated luminaire in response to the sensor detection.

The PPU-109DA can be used to control DALI, 0/1-10V or typical driver/ballast available in the market. IR-TEC's exclusive Hybrid Switching technology is employed to protect the relay contacts from being fused by the inrush current generated while switching on the LED drivers. A momentary push button input can be connected to enable manual on/off and dimming control while allowing the sensor to automatically shut off the light after the area is vacant for a period of time.

Through easy plug-in connection with the MRD-124S SmartDALI sensor, a standalone occupancy/vacancy sensing based control can be easily achieved. It can also connect with the ON-MRD-124S SmartDALI OS-NET sensor to deliver a state-of-the-art wireless networked smart lighting solution for general commercial application. In addition to smart lighting control, the PPU-109DA can be used as a load controller for motors, fans, ventilators, motorized dampers.

### **FEATURES**

- Class 2 switching mode power supply device
- 120-277VAC line voltage power input
- DALI bus power output for sensor operation
- Hybrid Switching technology HIC protection
- Momentary contact input for manual control
- Available with DALI, 0/1-10V, or typical driver
- RJ connector enable easy sensor connection
- Push-in terminals for power and control wiring

#### **APPLICATION**

✓ Load Control

The PPU-109DA can be applied to control lighting circuits, motors, self-contained air conditioners, VAV systems, fans and motorized damper controls with the provision of sensor signal input. A momentary push button signal can be connected to provide manual control if required. It is ideal for application requires line voltage load switching with electrical safety low voltage (SELV) control signal.

## **SPECIFICATIONS**

| Power supply                                    | 120/240/277VAC, 50/60Hz         |
|---|---------------------------------|
| Power consumption                               | <0.5W @standby                  |
| Bus power output                                | 16 VDC, 100mA max.              |
| Maximum load<br>Ballast Electronic (LED driver) | 720VA@120V (6A)                 |
|   | 1440VA@240V (6A)                |
|   | 1660VA@277V (6A)                |
| HIC protection                                  | 84A, 16.7 msec max.             |
| Sensor input                                    | DALI                            |
| Dim control output                              | DALI broadcast/0-10V selectable |
| Manual control input                            | Momentary contacts              |
| Op. humidity                                    | 95% RH max.                     |
| Op. temperature                                 | -20°C~70°C (-4°F~158°F)         |
| Dimensions                                      | 120x36x23mm (4.72″x1.42″x0.91″) |



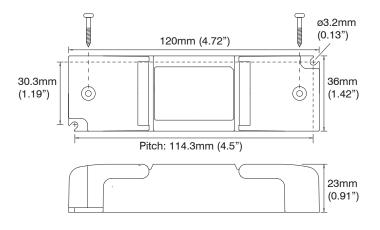


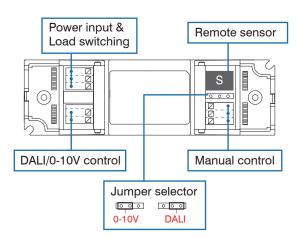
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### **DIMENSIONS**





#### WIRING DIAGRAM

