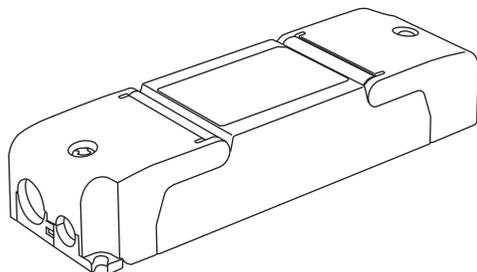




PPU-100DP, PPU-109DA

Power Pack & Controller

INSTALLATION INSTRUCTIONS



ONLY QUALIFIED ELECTRICIANS SHOULD INSTALL THIS DEVICE.

⚠ WARNING & CAUTION

- TURN POWER OFF AT CIRCUIT BREAKER (16A) BEFORE INSTALLING POWER PACKS.
- Risk of Electric Shock – More than one disconnect switch may be required to de-energize the equipment before servicing.
- Use UL listed wires for all wiring connections. Low voltage wiring connection should use at least 22 AWG wire. Load switching wiring connection should use at least 14 AWG. AC power line voltage wiring connection should use at least 18 AWG wire. Wire all Class 2 circuits using types CL3, CL3P, CL3R, or equivalent conductors. For plenum return ceilings, use UL listed plenum-approved cables.
- Always check national, state and local building codes for necessary compliance. After initial wiring is complete, ensure to verify all the low and high voltage wires are correctly connected before applying the power. Incorrect wiring could possibly cause permanent damage to the power pack, lighting system, occupancy sensors or other control devices.

OVERVIEW

The PPU-100DP and PPU-109DA are power pack and controllers designed to provide standalone or network based smart lighting control with the connection of IR-TEC's SmartDALI sensor.

The PPU-100DP is a DALI power supply unit and the PPU-109DA can be used to control DALI, 0/1-10V or typical driver/ballast available in the market.

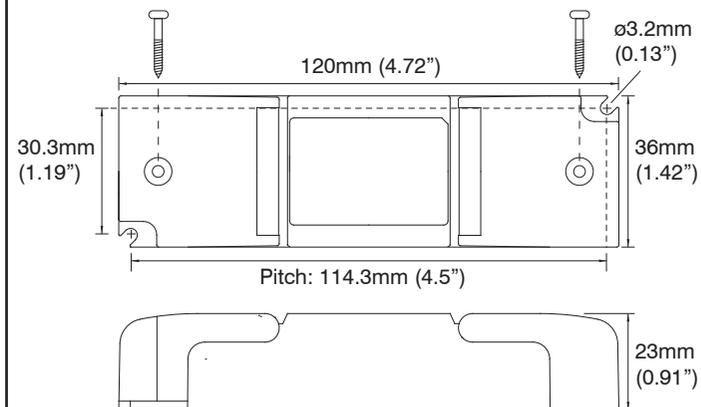
A momentary push button input can be connected to enable manual on/off and dimming control while allowing the sensor to automatically shut off the light after the area is vacant for a period of time.

Through easy plug-in connection with the MRD-124S SmartDALI sensor, a standalone occupancy/vacancy sensing based control can be easily achieved. The PPU-100DP and PPU-109DA 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.

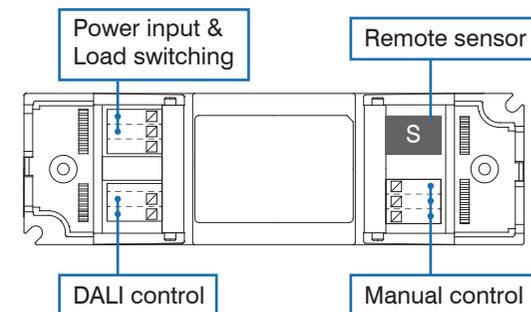
SPECIFICATIONS

Power supply	120/240/277VAC, 50/60Hz
Power consumption	<0.5W @standby
Bus power output	16 VDC, 100mA max.
Maximum load*	720VA@120V (6A)
	1440VA@240V (6A)
	1660VA@277V (6A)
Ballast Electronic (LED driver)	
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" x 1.42" x 0.91")
*Only with PPU-109DA	

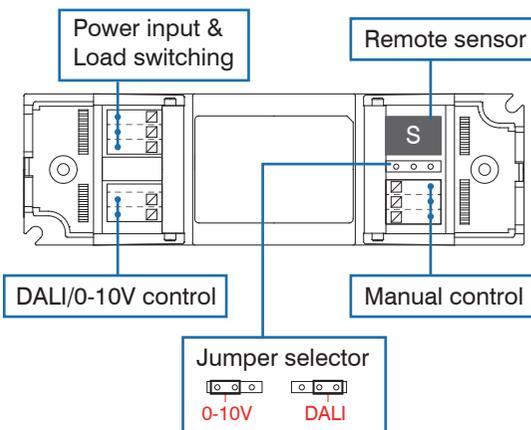
DIMENSIONS



PPU-100DP



PPU-109DA



www.irtec.com

P/N: 058-10902-003

Printed in Taiwan

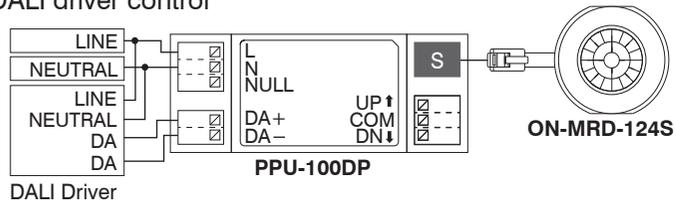
This product may be covered by one or more U.S. patents or patent applications. Please visit www.irtec.com for more information.

WIRING DIAGRAMS

OS-NET Wireless Network Control

PPU-100DP

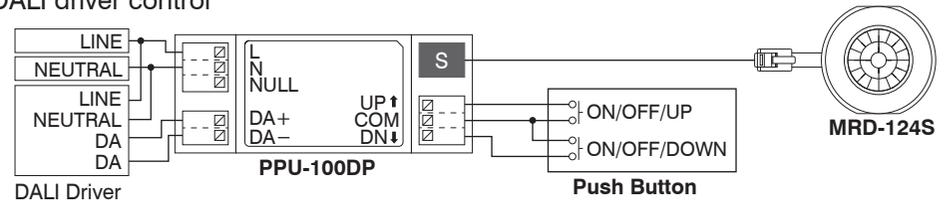
DALI driver control



DALI/0-10V Standalone Control

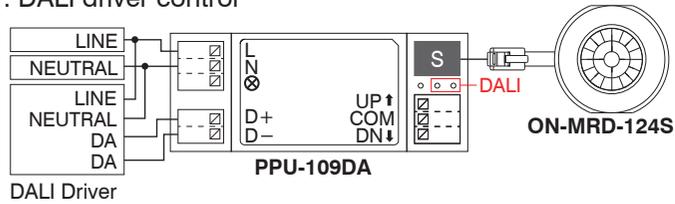
PPU-100DP

DALI driver control



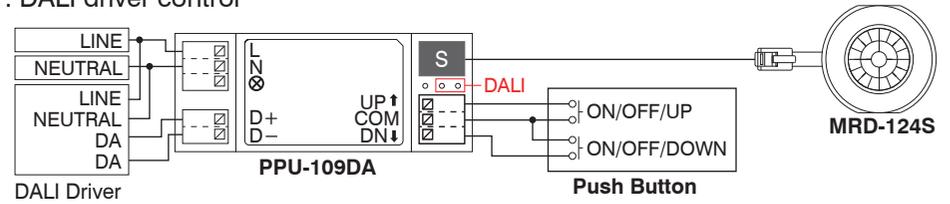
PPU-109DA

1. DALI driver control

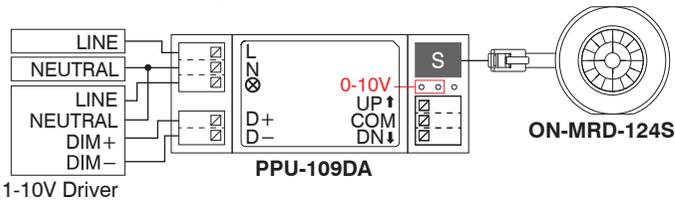


PPU-109DA

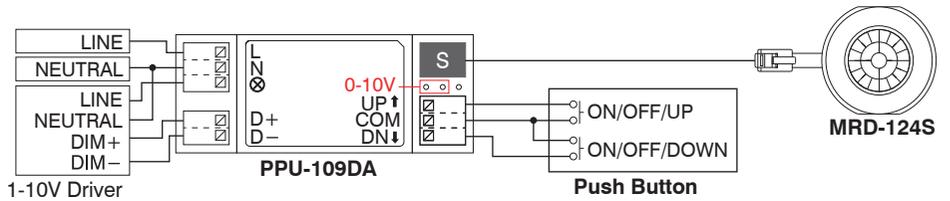
1. DALI driver control



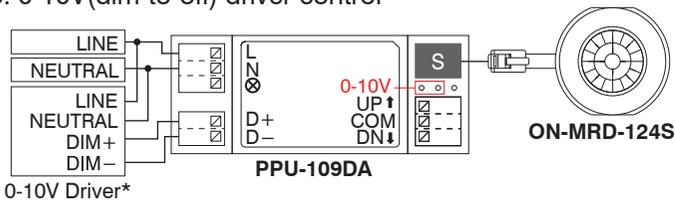
2. 1-10V driver control



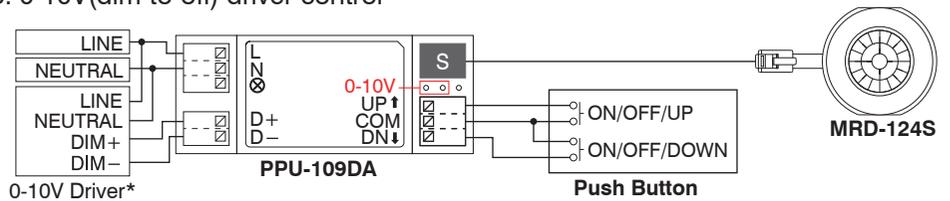
2. 1-10V driver control



3. 0-10V(dim-to-off) driver control



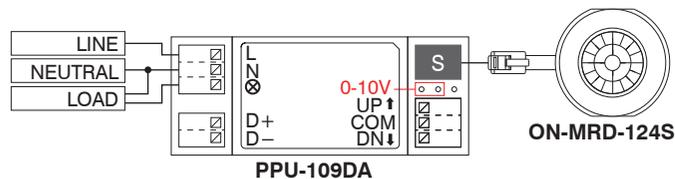
3. 0-10V(dim-to-off) driver control



*Note: for the driver that cannot turn off the light at 0V, please try wiring diagram 2 above.

*Note: for the driver that cannot turn off the light at 0V, please try wiring diagram 2 above.

4. Non-dimmable lighting control, ON-OFF switching



4. Non-dimmable lighting control, ON-OFF switching

