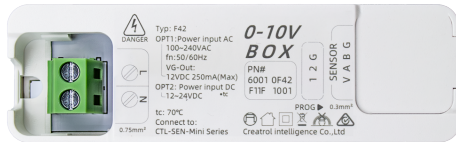


BOX-AC-10V

The BOX-AC-10V is a high-performance integrated power and control interface designed for 0-10V / 1-10V dimmable luminaires. It serves as a bridge between Mini series sensors and dimmable lighting systems, providing stable 12V DC power to sensors while delivering precise analog dimming signals. Its ultra-slim design is optimized for concealed installation in ceiling voids or wall boxes.



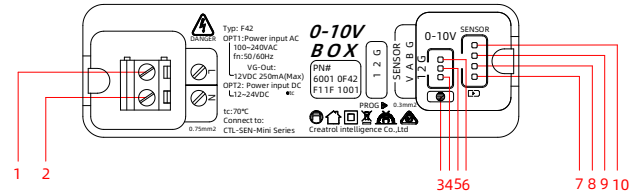
Features

- Supports wide-range AC input (100 to 240 V) or low-voltage DC input (12 to 30 V) for flexible deployment.
- Compatible with both 0 to 10 V and 1 to 10 V dimming protocols, supporting up to 12 luminaires per module.
- Enables advanced lighting strategies including 5-stage dimming and constant illuminance control when paired with compatible sensors.
- Features a physical "PROG" button for Tuya network provisioning.

Specifications

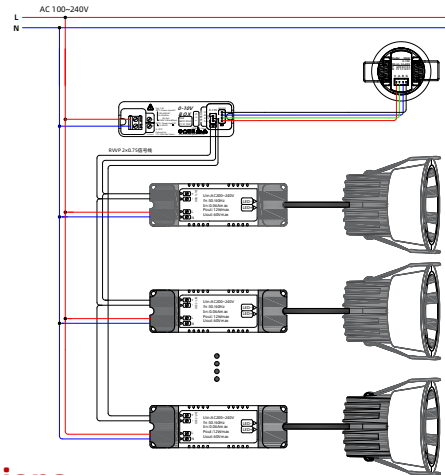
Input Voltage	AC 100 to 240 V or DC 12 to 30 V
Output Voltage	DC 12 V (Max 250 mA)
Dimming Output	0 to 10 V / 1 to 10 V Analog Signal
Max. Luminaire Count	< 12 units
Power Consumption	< 0.5 W
Method	Concealed installation
Dimensions	84 mm × 21 mm × 26 mm
Weight	37 g
Terminal Capacity	Terminal blocks (0.5 to 2.5 mm ²) and plug-in connectors
Housing Material	Flame-retardant PC (UL94 V-0)
Operating Temperature	-20 to 45°C (Indoor)
Storage Temperature	-40 to 85°C
IP Rating	IP20

Interface

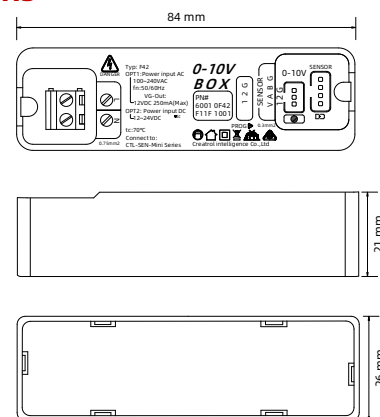


1. L: AC 100 to 240 V Live wire input.
2. N: AC 100 to 240 V Neutral wire input.
3. PROG: Physical button for network pairing (long press to enter config mode).
4. 1: Dimming signal terminals (for 0 to 10 V / 1 to 10 V output).
5. 2: Dimming signal terminals (for 0 to 10 V / 1 to 10 V output).
6. Common Ground (GND).
7. V: DC 12 to 30 V positive terminal (Outputs 24 V when using AC input; functions as input when no AC is present).
8. A: Positive signal line for RS485 differential communication.
9. B: Negative signal line for RS485 differential communication.
10. G: DC Ground terminal (Outputs GND when using AC input; functions as 12 to 30 V GND input when no AC is present).

Wiring Diagram



Dimensions



Safety

1. Disconnect main power before wiring.
2. Use safety-certified cables and strictly follow the wiring diagram.
3. Ensure input voltage is within range and do not exceed the rated load.
4. Periodically inspect terminal blocks for secure connections.