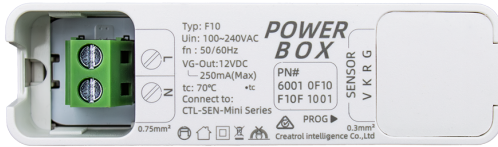


BOX-AC-PS

The BOX-AC-PS (Model: CTL-SEN-BOX/F10) is an ultra-compact AC-to-DC power supply module engineered specifically for the Mini series sensors. This unit provides a seamless power solution by converting wide-range AC input into a stable 12V DC output, making it an essential component for integrated sensor ecosystems.



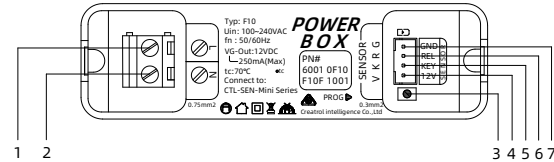
Features

- **Efficient Power Conversion:** Seamlessly transforms AC 100-240V input into a reliable DC 12V (≤ 250 mA) output to drive connected sensors.
- **Ultra-Compact Footprint:** Measuring only 75 mm $\times$ 20 mm $\times$ 22 mm, it is designed to fit into tight spaces where traditional power supplies cannot.
- **Integrated Network Pairing:** Features a dedicated "PROG" button; a 5-second long press initiates Tuya Network pairing for compatible wireless sensor models.
- **Robust Safety & Build:** Encased in UL94 V-0 flame-retardant PC housing with an IP20 rating, ensuring durability and safety for indoor applications.

Specifications

Input Voltage	AC 100 to 240 V (50/60 Hz)
Output Voltage	DC 12 V (Max 250 mA)
Dimensions	75 mm $\times$ 20 mm $\times$ 22 mm
Weight	28 g
Operating Temperature	-20 to 45°C (Indoor)
Housing Material	Flame-retardant PC (UL94 V-0)
Terminal Capacity	0.5 to 2.5 mm ²
IP Rating	IP20
Color	White

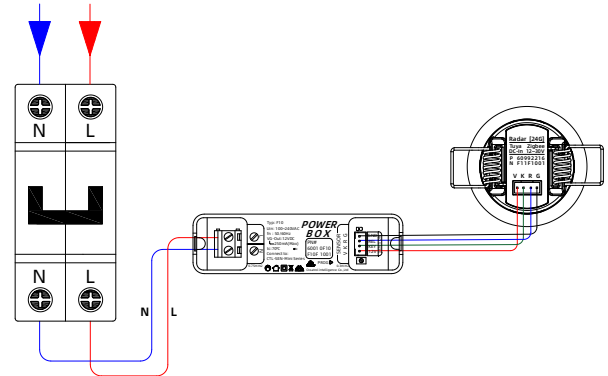
Interface



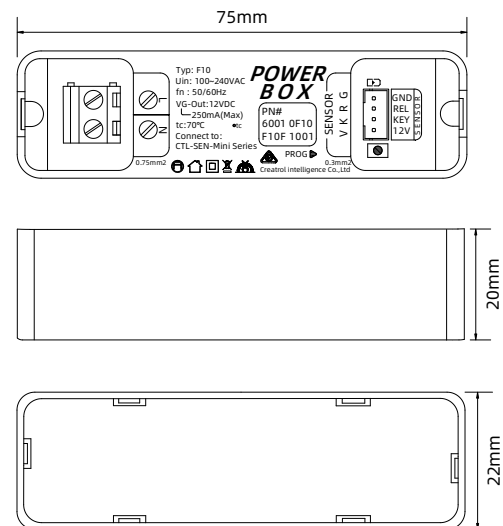
1. L: AC 100 to 240 V Live wire input.
2. N: AC 100 to 240 V Neutral wire input.
3. PROG: Configuration button; press and hold for 5 seconds to enter network pairing mode (for wireless sensor models).
4. 12V: DC Output 12 V positive terminal.
5. KEY: Mechanical button signal terminal.
6. REL: Reserved terminal.
7. GND: DC Output Ground (GND).

Wiring Diagram

AC 100 to 240 V



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.