

How to use an Italian smart distribution box



Article Overview

An Italian smart distribution box allows you to remotely and locally control multiple electrical circuits, monitor energy usage, and integrate with smart home platforms like Home Assistant or Tuya.

Understanding the Components

A typical smart distribution box includes:

- Smart Relay Controller (e.g., KC868-H16B) to switch circuits on/off .
- Logical Controller (e.g., KC868-COLB) for automation logic and sensor integration .
- Energy Meters (e.g., N30) to monitor consumption per line .
- AC Contactors and Circuit Breakers to safely handle high loads .
- Power Supply (DC12V) for the control electronics . These components are mounted on a DIN rail inside the distribution box, with each relay controlling a specific line, such as lights, outlets, or HVAC circuits.

Installation Steps

- Plan Your Circuit Layout: In Italy, standard practice is one line per room for lights, a few lines for outlets, and separate lines for heating, AC, or kitchen appliances . For multi-floor homes, consider separate sets for each floor.
- Mount the Hardware: Secure the relay controller, logical controller, energy meters, and contactors inside the distribution box. Ensure proper spacing for heat dissipation and easy access to breakers

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For more information, pricing, or custom solutions, please contact us:

Website: <https://chromadecksigns-eastrand.co.za>

Email: sales@chromadecksigns-eastrand.co.za

Phone: +32 2 318 5792

Address: Avenue Louise 500, 1050 Brussels, Belgium

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