

Distribution Box Online Indicator



Overview

Paneltronics: Led Indicators for Circuits Indicator Lights for electrical panels and power distribution units. 1PC Led Rail Type Signal Light Dual/Three Lig.

Key Takeaways

A distribution box with an online indicator is a device that consolidates multiple sensor or actuator connections into a single master line while providing LED or status indicators to show operational status.

Overview

Distribution boxes are used in industrial automation to simplify wiring by connecting multiple sensors or actuators to a single controller or logic module. They are available with M8 or M12 connectors, and can have fixed cables, plug-in trunks, or field-assemblable options depending on the application . The online indicator, usually an LED, provides a visual signal that the connected devices are powered and communicating correctly, helping operators quickly identify active or faulty lines .

Key Features

- Connectivity: M8 or M12 connectors, 3-pin to 5-pin options, supporting both single and double slot assignments .
- Status Indicators: LEDs or PNP indicators show the operational status of each channel, allowing for real-time monitoring .
- Protection: Many models are rated IP67 or IP68, ensuring resistance to dust, water, and harsh industrial environments .

- **Material and Durability:** Housings are made from PBT, TPU, or metal, with some models designed for millions of drag chain cycles .

- **Voltage and Current:** Typically operate at 10–30 V DC, with current ratings depending on the number of channels and connector type .

Applications

- **Industrial Automation:** Streamlines wiring for machines, robots, and production lines.

- **Sensor Networks:** Centralizes multiple sensor inputs for easier monitoring and maintenance.

- **Actuator Control:** Simplifies cabling for actuators while providing status feedback.

- **Harsh Environments:** IP-rated models are suitable for outdoor or wet conditions .

Online Availability

Distribution boxes with online indicators can be purchased from industrial suppliers such as ipf electronic, Murrelektronik, LAPP, and Phoenix Contact. These suppliers offer a range of sizes, connector types, and indicator options to suit different industrial needs .

Summary

A distribution box with an online indicator is an essential component for efficient and reliable industrial wiring. It reduces cabling complexity, provides real-time operational feedback via LEDs, and ensures robust performance in demanding environments. Choosing the right model depends on connector type, number of channels, IP rating, and the specific application requirements.

Article Content

Intelligent Remote Distribution Box Monitoring Solution

The distribution box is embedded with the DTU distribution device, distribution device power module, and distribution device power

Contact Us

Continue your research online:

Website: <https://coetzerinvestments.co.za>

Technical inquiry: <https://coetzerinvestments.co.za/contact.html>

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

