

Intelligent Time Control Module Distribution Box



Summary of Content

An Intelligent Time Control Module automates power distribution by scheduling, multi-channel control, and protection for industrial or LED applications.

Overview

An Intelligent Time Control Module is a device integrated into a distribution box to manage electrical loads automatically based on time schedules or external triggers. It ensures energy efficiency, operational reliability, and protection of connected equipment. These modules are widely used in LED displays, industrial plants, building automation, and low-voltage power systems .

Key Features

- **Time-Based Control:** Modules can operate on daily, weekly, or annual schedules, including sunrise/sunset (astro) functions for lighting or seasonal operations .
- **Multi-Mode Operation:** Supports manual control, computer-synchronized start/stop, dry-contact triggers, and delayed power supply to prevent grid overload .
- **Multi-Channel Management:** Allows independent control of multiple circuits or loads within a single distribution box, optimizing energy usage and operational efficiency .
- **Protection Mechanisms:** Includes overcurrent, short-circuit, and surge protection to safeguard connected devices. Some industrial modules also integrate fuses or relays for rapid disconnection in emergencies .
- **Integration with Automation Systems:** Can be connected to building automation or industrial control systems for centralized monitoring and remote operation .

Article Content

Power Distribution (PDU) Würth Elektronik

For customers who attach particular importance to modularity, short development times and enclosure that

Low Voltage Power & Data Distribution | LEONI Group

Our intelligent and mechanical boxes in the area of power and data distribution offer modular solutions for

PRO-TIME Time-Controlled LED Power Distribution Box

PRO-TIME LED distribution box with timer, manual, dry-contact, and computer-synchronized control for industrial LED screens.

PLC Based LED Display Power Distribution Box

Industrial PLC-based LED display power box with manual, timer, remote, and central control. Supports 10KW-250KW for safe, stable

Final Power Distribution Boxes | Product Catalog | CHINT Global

Compact final distribution boxes for safe, accessible, and precise power control across all electrical environments.

2025-09-16 FORVIA HELLA successfully launches its

International automotive supplier FORVIA HELLA has launched its intelligent Power US7161782B2

Instead of being concentrated in a single fuse box of the system, the gated solid-state switches are incorporated in the control

Intelligent Power Distribution Modules (IPDMs)

An Intelligent Power Distribution Module (IPDM) is an advanced vehicle component that

Electrical AC/DC Power Distribution Box & Cabinet for

Power Distribution Equipment The intelligent AC/DC power distribution box is a distribution automation

Power: Smart Power Distribution

These challenges have driven new developments in power distribution technology. Perhaps the newest development

Electrical Distribution Boxes for Power Distribution

Electrical distribution boxes for modular power distribution and installation. Flexible distribution solutions for

Intelligent Distribution | Solutions | ABB

Intelligent Distribution Solutions for smart low voltage electrical distribution Digital technologies such as Cloud Computing, Big Data,

Multifunctional Power Distribution Box (PDU) Würth

To this end, Würth Elektronik ICS developed a concept for a compact power supply unit with electronic

REDline Power Boxes (PDU) Würth Elektronik

Compact & modular power distribution boxes in a robust standard housing Fast time-to-market Configure space-saving & cost

PRO-TIME Time-Controlled LED Power Distribution Box

PRO-TIME LED power distribution box with time-controlled, multi-mode operation, and protection features for industrial LED screens.

Distribution boxes – For modular and decentralised solutions

Modular base for decentralised automation Modern automation solutions are becoming increasingly decentralised. As a result, you

Not just a fuse box

Not just a fuse box Today's power distribution centers do a whole lot more than provide a fused pathway. They need

Intelligent Distribution Box

Intelligent Distribution Box Through its wide-voltage and wide-temperature design, high level of integration, intelligent diagnostic

Intelligent Power Modules (IPMs): Concepts, Features, and Applications

Click here for more information on the CIPOS Mini IPMs from Infineon. Applications Intelligent power modules are most

Distribution boxes – For modular and decentralised solutions

Modern automation solutions are becoming increasingly decentralised. As a result, you need distribution systems that can be easily

Solid State Automotive Power Distribution Module with eFuse

Renesas provides an efficient power distribution network system built on intelligent power device (IPD) technologies. The advanced

Decentralized Building Automation Distribution Boxes (MSR)

Distribution boxes for building automation. Pluggable system solutions for energy-efficient smart buildings with flexible and fast

IX3212 Intelligent Xpansion™ Power Distribution Module

The IX3212 Intelligent Xpansion™ power distribution module (PDM) expands CAN bus

LED Power Distribution Cabinet with Time/ Multi-Function Card/ PLC

LED Power Distribution Cabinet with Time/ Multi-Function Card/ PLC Control, Find Details and Price about Power Distribution

Main Power Distribution Box (PDU) Würth Elektronik

REDline Power Box Twin Ideal main power distribution unit for vehicles & mobile machinery IP66/IP69K-protected housing 12V &

Intelligent Power Distribution Box Solution

Compared with the traditional power distribution box, it is safer to cut off the strong power supply remotely,

POWER DISTRIBUTION BOX – Smart Home

Smart Distribution Box Solution Powered by KinCony B32M + B16M Controllers The KinCony Smart

Contact Us

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