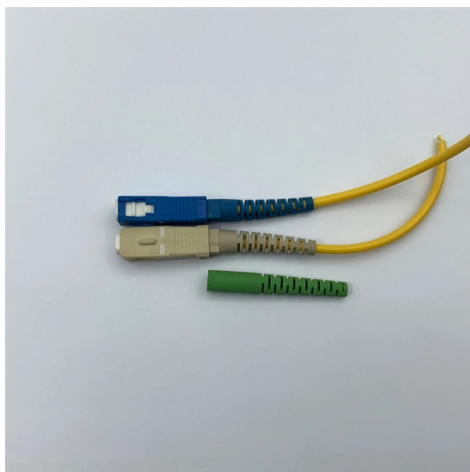


RIVO MULTITRADE OPTICAL SYSTEMS

Intelligent Control Module Lighting Distribution Box



Overview

Our pluggable 9-port lighting control module provides effortless scalability and ease of maintenance.

Key Takeaways

An Intelligent Control Module (ICM) for a lighting distribution box is a modular, programmable system that manages luminaires, detectors, and communication protocols to optimize lighting control, energy efficiency, and automation. Overview

An Intelligent Control Module (ICM) is designed to centralize and automate the control of lighting systems within a building. It integrates multiple luminaires, presence detectors, and switch inputs, often supporting digital dimming and communication protocols such as DALI, DALI-2, 0-10V, and BACnet for seamless interoperability across devices and systems. These modules are typically installed in lighting distribution or marshalling boxes, providing a structured and scalable approach to lighting management.

Key Features

- **Pluggable and Modular Design:** Many ICMs feature plug-and-play connectivity, allowing easy expansion or replacement of luminaires without rewiring, reducing installation time and maintenance costs.



- **Multi-Luminaire and Detector Support:** Modules can connect to multiple luminaires (e.g., up to 12 or more) and integrate presence detectors, photocells, or SELV inputs for occupancy and daylight-based control .
- **Digital Dimming and Scene Control:** Supports dimming of DALI or DSI ballasts, enabling daylight harvesting, scene presets, and human-centric lighting adjustments for comfort and productivity .
- **Communication and Networking:** ICMs often include BUS interfaces or MLS/DALI networks, allowing multiple modules to communicate, share sensor data, and integrate with building automation systems (BAS) for centralized control .
- **Energy Efficiency and Monitoring:** Advanced modules provide energy monitoring, load management, and demand-response capabilities, helping reduce energy consumption and extend fixture life .
- **Scalability and Future-Proofing:** Spare ports and modular architecture allow for future expansion of office or commercial lighting systems without major infrastructure changes .

Applications

- **Commercial Buildings:** Offices, schools, and healthcare facilities benefit from occupancy-driven lighting, daylight harvesting, and scene-based control.
- **Industrial and Retail Spaces:** Efficiently manage large numbers of luminaires while monitoring energy usage.
- **Smart Buildings:** Integration with IoT platforms enables predictive maintenance, asset tracking, and adaptive lighting strategies .

Example Products

- **Simmtronic DALI Lighting Control Module:** Offers up to three output ports, plug-and-play scalability, and chilled beam lighting integration .
- **Honeywell CDW12U5-BDALI:** Connects up to 12 luminaires, 5 detectors, and 5 switch inputs, supporting digital dimming and MLS Bus communication .
- **Delmatic Intelligent Modular Distribution Box:** Provides individual addressing and monitoring of up to 192 DALI drivers and 48 DALI devices, with structured cabling and DALI-2 compatibility .
- **Eaton LCMB12WDB:** Combines dimming functionality and BUS interface, supporting daylight harvesting and flexible sensor integration .

Benefits

- Simplifies installation and maintenance through modular, plug-in design.
- Enhances energy efficiency via automated dimming, occupancy sensing, and daylight harvesting.
- Provides centralized control and monitoring for large-scale lighting systems.

- Supports future expansion and integration with smart building technologies. Intelligent Control Modules for lighting distribution boxes are essential for modern, energy-efficient, and adaptable lighting systems, offering both operational flexibility and long-term scalability.

Article Content

Lighting Control Modules | Simmtronic

Our pluggable 9-port lighting control module provides effortless scalability and ease of maintenance. With its plug-and-play design,

Lighting Control Module

IP20 Energy conservation and the resulting cost savings are key drivers in the increasing demand for lighting controls. This new

Ex-Or CDW12U5-DALI Connect Digital Box

The Ex-Or CDW12U5-DALI Connect Digital Box is a highly flexible, configurable and intelligent lighting control module, which

Pluggable|Honeywell Building Automation

This intelligent lighting control module helps to replace fixed wiring with plug-in simplicity and soft wiring connections. This results in

Lighting Control Modules Explained: Features, Types, and ...

What is a Lighting Control Module? A lighting control module is the “control center” for your lighting system. It acts as

Pluggable|Honeywell Building Automation

Connect Digital Box is a highly flexible, configurable and intelligent lighting control module, which features

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

