

RIVO MULTITRADE OPTICAL SYSTEMS

Cooperative Lighting Distribution Box



Overview

Power & Lighting Mixed Distribution Box Guide: Cooperative Power With matched parameters and coordinated operation, the pre-configured complete mixed distr.

Key Takeaways

A Cooperative Lighting Distribution Box allows independent control of multiple lighting circuits, supporting both standard and dimmable luminaires with flexible installation and expansion options.

A Cooperative or Dual Control Lighting Distribution Box is designed to manage two groups of luminaires independently, either on the same circuit with separate control or on two individual circuits, each protected by its own device. These boxes are compatible with standard on/off or dimmable lighting systems, including emergency and non-emergency configurations, making them suitable for complex lighting setups in commercial or public spaces .

Key Features

- Independent Control: Each group of luminaires can be controlled separately, allowing essential and non-essential lighting to operate independently.
- High Capacity Input Terminals: Can accept multiple conductor sizes, such as 3 x 2.5mm², 2 x 4mm², or 1 x 6mm², supporting robust electrical connections .
- Expandable Outlets: End outlets can serve as spare connections or allow additional units to be plugged in. Expansion Boxes can be added to increase the number of controlled luminaires without rewiring .

- **User-Friendly Installation:** Snap-on/off single-point fixing brackets simplify mounting, and multiple cable entry points provide flexibility during installation .

- **Compliance and Safety:** Designed to meet IET wiring regulations and safety standards, ensuring secure and reliable operation in both indoor and outdoor environments .

Applications

- **Commercial Buildings:** For controlling multiple lighting zones independently.

- **Public Infrastructure:** Street lighting or emergency lighting systems where separate control of essential and non-essential circuits is required.

- **Smart Building Integration:** Can be used with centralized lighting control systems, including DALI, or with other manufacturers' control devices .

Advantages

- **Flexibility:** Supports both traditional hard-wired switches and modern centralized control systems.

- **Scalability:** Easily expandable to accommodate additional luminaires or circuits.

- **Durability:** Many models feature robust materials such as anodized aluminum and V0-rated molded components for long-term reliability .

- **Simplified Maintenance:** Clear labeling of terminals and spacious wiring compartments reduce installation errors and maintenance time . In summary, a Cooperative Lighting Distribution Box is a versatile solution for managing multiple lighting circuits efficiently, offering independent control, expansion capability, and compliance with safety and wiring standards, making it ideal for modern lighting installations in commercial, industrial, and public environments .

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

