

Complete set of plastic distribution boxes



Overview

Hamilton's Bulk Distribution Boxes are modular and additional material outlets may be added as your needs grow.

Key Takeaways

Plastic distribution boxes provide safe, durable, and versatile enclosures for electrical components, suitable for residential, commercial, and industrial applications.

Plastic distribution boxes are designed to protect electrical circuits, switches, breakers, and other critical components from environmental hazards such as dust, moisture, and impact while ensuring safe access for maintenance and operation . They are typically made from high-quality thermoplastics like ABS or PC, offering flame retardancy, UV resistance, and chemical durability . These boxes are lightweight, easy to install, and often come with transparent covers for visual inspection of internal components .

Key Features

- **Material and Safety:** Flame-retardant ABS or PC, UV-resistant, impact and corrosion-resistant, compliant with international safety standards .
- **Internal Components:** DIN rails, neutral and earth terminal bars, and adjustable mounting points for modular devices .
- **Protection Ratings:** IP65/IP66 for waterproof and dustproof performance, suitable for outdoor and harsh environments .

- Customization Options: Color, size, material grade, knockouts, and wiring layout can be tailored to specific project requirements .
- Applications: Residential buildings, high-rise apartments, industrial facilities, solar photovoltaic systems, outdoor lighting, agricultural irrigation, and marine installations .

Types and Sizes

Plastic distribution boxes are available in various sizes and configurations, including flush-mounted and surface-mounted options. Standard sizes often range from 8-bit to 23-bit, accommodating different numbers of MCBs or circuit breakers . Some boxes, like the PZ30 series, are compatible with ABB, CHINT, DELIXI, and Merlin Gerin MCBs, providing flexibility for different electrical setups .

Advantages

- Durability: Resistant to impact, oxidation, and environmental stress .
- Ease of Installation: Lightweight construction, adjustable DIN rails, and pre-installed terminal blocks simplify wiring .
- Safety: Flame-retardant materials and secure locking mechanisms reduce fire risk and ensure safe operation .
- Versatility: Suitable for indoor and outdoor use, with options for waterproofing and UV protection .

Conclusion

A complete set of plastic distribution boxes includes the enclosure, DIN rails, neutral and earth terminals, and compatibility with standard MCBs. These boxes are engineered for safety, durability, and flexibility, making them ideal for a wide range of electrical installations, from residential to industrial applications . Choosing the right box involves considering size, protection rating, material, and customization options to meet specific project needs.

Article Content

Distribution Boxes – Hamilton Plastics Systems

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