

Control Terminal Box



Overview

Terminal Boxes | McMaster-Carr Choose from our selection of terminal boxes, including over 4,300 products in a wide range of styles and sizes. Same and Next.

Key Takeaways

A control terminal box is an enclosure designed to protect and organize electrical connections, control circuits, and terminal wiring in industrial or commercial applications. Overview

A control terminal box serves as a protective housing for electrical components, ensuring safe and organized connections for motors, machinery, or control systems. It helps prevent accidental contact, environmental damage, and electrical faults while providing a centralized location for wiring and terminals .

Materials and Construction

Control terminal boxes are commonly made from:

- Polycarbonate: Lightweight, corrosion-resistant, and suitable for indoor or outdoor use .
- Aluminum: Durable, lightweight, and provides good heat dissipation .
- Carbon Steel: Strong and robust, often used in industrial environments .

- **Cold-Rolled Steel:** Used in motor terminal boxes, often coated with oil to prevent rusting . Boxes may include gaskets made of materials like Vellumoid, which resist oil, grease, gasoline, and water, ensuring a secure seal between the box and motor or cover .

Protection Ratings

Control terminal boxes are designed to meet various IP (Ingress Protection) ratings, with some models offering protection up to IP66, making them resistant to dust and powerful water jets . This ensures reliable operation in harsh environments.

Types and Applications

- **Wall-Mounted Enclosures:** Suitable for small control applications and easy access to wiring .
- **Motor Terminal Boxes:** Specifically designed to attach to motor frames, providing secure connections for motor leads .
- **Pull/Junction Boxes:** Facilitate clean cable entry, routing, and flexible internal mounting for machine designs . These boxes are widely used in industrial automation, motor control, electrical distribution, and machinery wiring.

Additional Features

- Some terminal boxes offer flanged or non-flanged versions for flexible mounting .
- Internal mounting options allow for customized layouts of terminal strips, relays, or other control components .
- Many suppliers provide ready-to-ship options and instant quotes for quick procurement . Control terminal boxes are essential for maintaining safety, organization, and reliability in electrical and control systems, making them a critical component in industrial and commercial installations.

Article Content

Terminal and Junction Boxes (Ex e, Ex i, Ex op)

Learn more about the different ranges of flexible and durable increased safety terminal boxes, junction boxes, and splice boxes from

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