Switch box surface-mounted electrical control box



Overview

Find reliable surface mounted switch boxes with IP65 waterproofing, flame-retardant ABS, and customizable features. Click to explore top-rated suppliers and secure the best deals today.

Key Takeaways

Surface-mounted electrical boxes are enclosures installed on wall or ceiling surfaces to house switches, outlets, or other electrical devices, providing protection, organization, and code-compliant wiring support. OverviewSurface-mounted electrical boxes, also known as switch boxes or control boxes, are designed to enclose and protect electrical wiring connections for switches, outlets, and other devices. Unlike recessed boxes, they are mounted directly on the surface of walls, ceilings, or other structures, making them ideal for retrofit projects, exposed wiring, or areas where wall recessing is impractical.

Types and MaterialsPlastic/PVC Boxes: Lightweight, non-conductive, corrosion-resistant, and suitable for indoor or light commercial use. Examples include CANTEX EZ BOX and Carlon PVC boxes. Metal Boxes: Made from pre-galvanized steel, aluminum, or die-cast metal, offering durability and grounding capabilities.

Commonly used in commercial, industrial, or outdoor applications. Weatherproof Boxes: Designed for outdoor or damp locations, often with gaskets, powder-coated finishes, and IP-rated protection to prevent moisture ingress.

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Shapes and Configurations

Rectangular, Square, and Round: Shapes are chosen based on device type and wiring needs. Gang Options: Single-gang, two-gang, three-gang, or more, allowing multiple devices in one box. Specialty Boxes: Floor boxes, ceiling boxes, junction boxes, and extension rings for increased capacity or specific applications.

FeaturesPre-tapped mounting holes for easy device installation. Wire clamps or knockouts for secure cable management. Adjustable brackets for quick mounting between studs or on surfaces.

UL/ETL listing ensures compliance with electrical codes. Fire-rated options for enhanced safety in residential or commercial settings.

Installation Considerations

Mounting Surface: Can be installed on drywall, concrete, brick, or wood using appropriate anchors or screws. Device Compatibility: Ensure the box size accommodates the number of wires, connectors, and devices. Outdoor Use: Select weatherproof boxes with proper IP ratings to protect against rain, dust, and debris.

Accessibility: Position boxes for easy wiring access and device operation. Popular Brands and ProductsCANTEX EZ BOX: PVC boxes for new or old work, available in multiple gang sizes and adjustable designs.

RAC

O Switch Boxes: Durable steel boxes with pre-tapped holes and wire clamps for exposed work. Hubbell, Leviton, Panduit: Offer plastic and metal surface-mounted boxes for switches, outlets, and low-voltage applications. Sigma Engineered Solutions: Weatherproof metal boxes with extension rings for wet or damp locations.

Surface-mounted electrical boxes provide a versatile, safe, and code-compliant solution for housing switches, outlets, and other electrical devices, suitable for both indoor and outdoor applications, new construction, or retrofit projects. Proper selection of material, size, and features ensures reliable performance and long-term durability.

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Our products range includes simple flush-mounted switch boxes to surface-mounted boxes for indoor use, as well as high-end IP65 junction boxes for use in wet areas.

Surface mount electrical switch box

According to the installation mode, lighting distribution box can be divided into closed suspension type (surface mount) and embedded type (flush mount). Now let''s take a look at the Surface mount

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