Dimensions of the electrical distribution box for the perimeter gate



Overview

Ultimate Guide to Electrical Junction Box Dimensions and ComplianceExplore NEC-based standards, box dimensions, material guidelines, and installation preci.

Key Takeaways

Electrical distribution boxes for perimeter gates typically range from 200–415 mm in length, 105–323 mm in width, and 75–140 mm in height, depending on the series and capacity.

Standard Dimensions

For small to medium perimeter gate installations, plastic or metal distribution boxes are commonly used. Typical dimensions include: Plastic MB-ABC series: Length 200–328 mm, Width 172–174 mm, Height 95 mm.

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A, HK, LGD series: Length 100–415 mm, Width 105–323 mm, Height 75–140 mm. Low-voltage outdoor metal boxes: Fabricated from 2 mm GI sheet steel, with reinforced channels and slanted roofs, dimensions vary based on KVA rating and number of outgoing feeders.

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Material and Protection

Plastic boxes: Flame-resistant ABS, suitable for indoor or sheltered outdoor use, compliant with BS EN60439-3 standards. Metal boxes: Galvanized or powder-coated steel, outdoor-rated with IP-33 to IP-55 protection, providing dust and water ingress resistance.

Installation Considerations

Ensure adequate space for incoming and outgoing cables, busbars, and MCCBs. For outdoor perimeter gates, select boxes with weatherproof doors, rubber gaskets, and proper earthing points. Hinges and locks should be secure and corrosion-resistant, often using stainless steel pins and Godrej-type locking systems.

Consider future expansion: multi-gang or larger boxes may be required if additional devices or automation components are planned.

Summary

For a perimeter gate, a compact distribution box with dimensions around 200–328 mm length, 172 mm width, and 95 mm height is generally sufficient for standard low-voltage circuits. For higher capacity or outdoor installations, metal boxes with IP-55 protection and larger dimensions may be necessary to accommodate busbars, MCCBs, and proper cable management. Always verify local electrical codes and ensure the box provides adequate clearance for safe operation and maintenance.

Article Content

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Electrical Box Dimensions Manufacture

Linkwell offers a wide range of electrical box dimensions, so you can always find the right fit for your industrial or commercial project. Tip: Always measure your space before you install your box.

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The minimum inner dimensions of the room shall be 2000 mm X 2000 mm to serve up to 32 meters for type 1, and 3800 mm X 3610 mm to serve up to 96 meter for type 2 to provide adequate working

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The installation requirements for the distribution box

A distribution box is the heart of any electrical system. It takes the incoming power and safely distributes it to different circuits throughout your

Understanding Distribution Boxes: A Comprehensive

A distribution box, also known as a power distribution box or electrical distribution box, is used to distribute electrical power safely to multiple

Junction Box Sizing Calculator

Use this junction box sizing calculator to determine the recommended dimensions of a junction box depending on the number of straight and angle pulls entering it and meet the National Electrical Code®.

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

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