

Lighting Distribution Box Symbol

Article Overview

A lighting distribution box is typically represented by a rectangle or square with internal lines or labels indicating circuit connections on electrical plans.

Symbol Representation

In electrical schematics and lighting plans, a lighting distribution box (also called a junction box or panel for lighting circuits) is usually depicted as a rectangle or square. Inside the box, lines or small circles may indicate the incoming and outgoing circuits, showing how power is distributed to various lighting fixtures throughout a space . Sometimes, the symbol includes a label such as "LDB" or "DB" to clearly identify it as a distribution box.

- o Rectangle/Square: Represents the physical enclosure of the distribution box.
- o Internal Lines: Indicate connections to different lighting circuits.
- o Labels: Optional text like "LDB" or numbering to reference specific circuits.

Context in Electrical Plans

Lighting distribution boxes are part of the lighting control system and are often shown in conjunction with:

- o Switches: Represented by circles or squares with lines extending to indicate control points .
- o Lighting Fixtures: Symbols such as circles for recessed lights, rectangles for surface-mounted fixtures, or lines for track lighting .
- o Circuit Paths: Lines connecting the distribution box to switches and fixtures, showing the flow of electricity.

Standards and Variations

While there is no single universal symbol for a lighting distribution box, most plans follow conventions from organizations like NEMA, IEEE, or local electrical codes . Variations may exist depending on the project, manufacturer, or regional standards. Always refer to the legend or key provided with the specific set of drawings to ensure accurate interpretation.

Practical Tip

When reading or creating electrical plans:

- o Look for rectangular boxes labeled "LDB" or "DB".
- o Trace the lines connecting to lighting fixtures to understand circuit distribution.



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o Confirm with the legend to account for any project-specific symbol variations.

This approach ensures that the lighting distribution box is correctly identified and that the electrical layout is interpreted safely and accurately.

The symbols in this standard are widely understood by those in the electrical design and construction field. Other symbols may also

A collection of 2D electrical symbols. A free AutoCAD block DWG file download. Includes: Recessed emergency light Ceiling fan

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Electrical symbols show where lighting, outlets, switches, and other electrical elements are placed in a building. On a

Learn about common symbols used in residential electrical wiring diagrams, including switches, outlets, and circuit breakers.

This list of lighting symbols will help you to identify these devices on the electrical blueprint or wiring diagram layout. When

Electrical Terminology, Symbols, and Abbreviations Electrical terminology and symbols have developed over the years. Although

NECA 100-2024 describes graphic symbols used to represent electrical wiring and

A comprehensive reference sheet of IEC 60617 electrical symbols, including connections, conductors, and protective devices.

Lamps & Lighting The following table provides the commonly used electrical wiring schematic symbols for push-buttons and lamps

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You can also find a comprehensive list of electrical wiring symbols and their meanings in

Symbols of Electrical Junction Boxes Electrical junction boxes are accessible enclosures, mainly made of metal or plastic, where

It contains clear, standardized symbols for sockets, lighting, switches, and distribution boards, ensuring

Wiring diagrams use simplified symbols to represent switches, lights, outlets, etc. Here is the wiring symbol

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