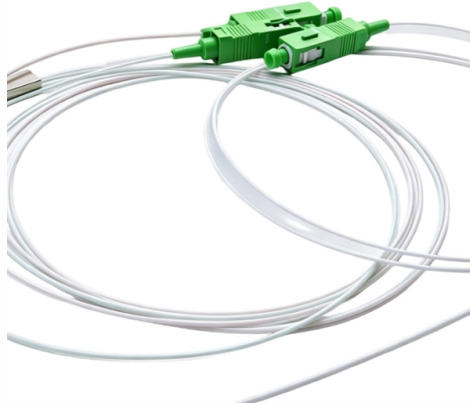


Eplan as a distribution box



Overview

Field distribution devices It is also possible to create a 2D representation of a field distribution device. It can then be used in EPLAN Harness proD nail.

Key Takeaways

In EPLAN, a distribution box is best represented using a structure box, which organizes components without assigning device-specific properties. Structure Box Overview

A structure box in EPLAN is a graphical tool used to indicate the location or structural grouping of devices, such as distribution boxes, drive cabinets, or field devices . Unlike black boxes, structure boxes do not represent a device themselves and cannot be dimensioned or numbered, but they can contain multiple components while maintaining their individual attributes . This makes them ideal for modeling a distribution box, where the focus is on organization and hierarchy rather than device-specific functions.

Key Features for Distribution Boxes

- **DT Assignment:** Structure boxes can have a displayed device type (DT), but this does not make them a device . Components inside inherit their own DTs.
- **Component Containment:** Any element inserted into a structure box remains fully functional and retains its properties, allowing you to group breakers, terminals, or relays logically within the distribution box .
- **Hierarchy Management:** Multiple structure boxes can be nested, which is useful for complex distribution panels with sub-sections or multiple circuits .

- Cross-Referencing: Structure boxes can be made cross-reference capable, helping maintain clarity when the same distribution box appears in multiple schematic pages .

Advantages

- Clearly displays the structural level and relationships of components within the distribution box.
- Facilitates management and maintenance of schematics by visually grouping related elements.
- Supports scalable schematics, as text and graphical elements adjust with page scaling without affecting panel layout readability .

Limitations

- Cannot express device-specific functions or technical characteristics; it is purely organizational .
- Cannot be dimensioned or numbered like a black box or PLC box, so it is not suitable for representing individual devices that require detailed specifications.

Practical Tip

To model a distribution box in EPLAN:

- Insert a structure box on your schematic page.
- Place all relevant components (circuit breakers, terminals, relays) inside the box.
- Use the Main placement property if cross-referencing is needed across multiple pages.
- Adjust the box size and nesting to reflect the physical layout of the distribution panel. By using a structure box, you maintain a clear, organized schematic while accurately representing the distribution box as a functional unit without altering the properties of individual components .

Article Content

Representing Cables using Bundle Connection Points

Eplan allows a clearer view of cable display by using bundle connection points. Just before the cable source, the cable connections

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

