

5 8-position distribution box



Overview

HTP M12 DISTRIBUTION BOX 8 POSITION 5 POLEWe offer over 10,000 different part numbers!! Distribution Boxes Technical Data Summary of ChangesFour-pin, One S.

Key Takeaways

A 5.8-position distribution box is an industrial connector box designed to consolidate multiple sensor or actuator connections into a single master cable, typically featuring 5 or 8 connection positions for M8 or M12 connectors.Overview

A 5.8-position distribution box is used to simplify cabling in industrial automation systems by bundling several sensor or actuator cables into one master cable that connects to a controller or I/O module. These boxes are commonly used in decentralized installations to save space, reduce wiring errors, and improve maintenance efficiency .

Key Features

- Number of Positions: Typically 5 or 8 connection points, allowing multiple devices to connect to a single distribution point .
- Connection Method: M12 or M8 connectors, either PUSH-PULL, screw, or pluggable connections, depending on the model .
- Slot Assignment: Can be single or double assignment per slot, depending on the application requirements .
- Status Indicators: Some models include PNP or NPN LEDs for quick troubleshooting and signal monitoring .

- **Cable Management:** Bundles multiple cables into one master cable, reducing clutter and simplifying installation .
- **Protection Rating:** Many distribution boxes offer IP65 or IP67 protection, ensuring reliability in harsh industrial environments .
- **Material Options:** Available in plastic or metal housings, depending on durability and environmental requirements .

Applications

- **Sensor/Actuator Networks:** Connect multiple sensors or actuators to a single I/O module efficiently.
- **Decentralized Automation:** Ideal for field installations where space is limited and wiring needs to be organized.
- **Industrial Control Systems:** Reduces installation time and simplifies troubleshooting in complex automation setups .

Example Models

- **Phoenix Contact:** Offers 5-position M12 distributor boxes with double slot assignment and optional PNP status display .
- **Murrelektronik:** Provides modular passive distribution boxes with 5 or 8 positions, IP65/IP67 protection, and integrated LEDs for diagnostics .
- **Rockwell Automation:** Bulletin 898 DC Micro (M12) distribution boxes connect multiple devices to control systems, improving flexibility and reducing labor costs . These distribution boxes are modular and customizable, allowing selection of cable lengths, connector types, and slot configurations to match specific industrial requirements. They are particularly useful in applications where quick installation, reliable signal transmission, and easy maintenance are critical.

Article Content

Distribution Boxes Technical Data

Summary of Changes
Four-pin, One Signal per Port Cable Connector Distribution Box
Cable Connector Wiring
Cable Connector Four-pin, One Signal per Port Cable with Terminal Block Connector Distribution Box
Mechanical Product Selection
Cable Mechanical (1.3) Additional Resources
Rockwell Automation Support
This publication contains the following new or updated information. This list includes substantive updates only and is not intended to reflect all changes. See more on literature.
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DC Micro Distribution Boxes - Rockwell Automation | US

They lower your labor costs by reducing installation and troubleshooting time. Our distribution boxes require less space, look neater

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

