

SN-15W

SN-15W Insulated Ferrules Terminal Block User Manual

Model: SN-15W | Brand: Generic

1. INTRODUCTION

This manual provides essential information for the safe and effective use of the SN-15W Insulated Ferrules Terminal Block. This product is designed for secure electrical connections, accommodating AWG 22-14 wires with a rated voltage of 600V and current of 15A. Please read this manual thoroughly before installation and operation.

2. PRODUCT OVERVIEW

The SN-15W terminal block is a screw-connection type component, primarily used for panel mounting. It features a durable Nylon PA66 shell and is designed for reliable wire termination.



Figure 2.1: Front view of a single SN-15W terminal block, showing the two screw terminals for wire connection.



Figure 2.2: Multiple SN-15W terminal blocks assembled together and mounted on a standard DIN rail, demonstrating typical installation.



Figure 2.3: Side view of the terminal block, displaying key specifications such as voltage, current, and wire gauge compatibility.



Figure 2.4: Side profile of the terminal block, highlighting its compact design and screw mechanism.

3. SETUP AND INSTALLATION

The SN-15W terminal block is designed for easy installation, typically on a DIN rail or panel. Ensure all power is disconnected before beginning installation.

3.1 Safety Precautions

- Always disconnect power to the circuit before installing or servicing the terminal block.
- Use appropriate personal protective equipment (PPE), such as insulated gloves and safety glasses.
- Ensure wiring complies with local electrical codes and regulations.
- Do not exceed the rated voltage (600V) or current (15A) of the terminal block.

3.2 Mounting Instructions

1. Identify the desired mounting location on a DIN rail or panel.
2. If using a DIN rail, align the terminal block's base with the rail and press down firmly until it clicks into place.
3. For panel mounting, ensure adequate clearance for wiring and access to screws.
4. Secure the terminal block firmly to prevent movement during operation.

4. OPERATING INSTRUCTIONS

Connecting wires to the SN-15W terminal block is a straightforward process. Proper wire preparation and secure connections are crucial for reliable performance.

4.1 Wire Preparation

- Strip approximately 8-10mm of insulation from the end of the wire.
- For stranded wires, it is highly recommended to use insulated ferrules (AWG 22-14) to ensure a secure and reliable connection and prevent fraying.

4.2 Connecting Wires

1. Using a suitable screwdriver (M3.5 screw type), loosen the screw terminal on the block.
2. Insert the prepared wire (with or without ferrule) into the terminal opening. Ensure the conductor is fully inserted and

no bare wire is exposed outside the terminal.

3. Tighten the screw firmly to secure the wire. The recommended torque is 0.8-1.0 N·m. Do not overtighten, as this can damage the terminal or wire.
4. Gently pull on the wire to verify that it is securely fastened and cannot be easily dislodged.
5. Repeat for all necessary connections.

5. MAINTENANCE

The SN-15W terminal block requires minimal maintenance. Regular inspection can help ensure long-term reliability.

- **Periodic Inspection:** Periodically inspect the terminal blocks for any signs of damage, discoloration, or loose connections.
- **Cleaning:** If necessary, clean the exterior of the terminal block with a dry, lint-free cloth. Do not use abrasive cleaners or solvents.
- **Retightening:** In environments with significant vibration or temperature fluctuations, it is advisable to periodically check and retighten the screw connections to the recommended torque.

6. TROUBLESHOOTING

Most issues related to terminal blocks are due to improper installation or loose connections. Always ensure power is off before troubleshooting.

Problem	Possible Cause	Solution
Intermittent connection	Loose screw terminal; improperly stripped wire; frayed wire strands.	Disconnect power, re-strip wire, use ferrule if applicable, and retighten screw to specified torque.
Wire pulls out easily	Screw not tightened sufficiently; wire not fully inserted.	Disconnect power, ensure wire is fully inserted, and tighten screw firmly.
Overheating/Discoloration	Overcurrent; loose connection; damaged terminal block.	Immediately disconnect power. Check circuit current. Inspect connection for looseness. Replace damaged terminal block. Consult a qualified electrician.

7. SPECIFICATIONS

The following table details the technical specifications for the SN-15W terminal block:

Attribute	Value
Model Number	SN-15W
Color	Black
Dimensions (W/L/H)	8 x 38 x 33.5 mm
Connection Method	Screw Connection
Shell Material	Nylon PA66
Rated Voltage	600V

Attribute	Value
Rated Current	15A
Wire Section	2mm ² (AWG 22-14)
Maximum Current	21A
Screw Type	M3.5
Recommended Torque	0.8-1.0 N·m
Certification	CE, RoHS
Manufacturer	DUSLOS

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact the manufacturer directly. The manufacturer for this product is DUSLOS.

For product returns or exchanges, please consult the return policy of your retailer.

