Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

DAVITU KF128 Series

DAVITU KF128 Series PCB Screw Terminal Block User Manual

Model: KF128 Series | Brand: DAVITU

1. Introduction

This user manual provides comprehensive instructions for the installation, operation, and maintenance of the DAVITU KF128 Series PCB Screw Terminal Blocks. Please read this manual thoroughly before using the product to ensure proper functionality and safety.

2. Product Overview

The DAVITU KF128 series comprises versatile PCB screw terminal blocks designed for secure and reliable electrical connections on printed circuit boards. These terminals are available in various pin configurations and pitches to suit diverse application requirements.



Figure 2.1: Various KF128 PCB screw terminal blocks and associated screws. This image displays multiple green terminal blocks with different pin counts (2P, 3P, 4P, 5P, 6P) and the small metal screws used for wire termination.

3. Key Features

- **Versatile Pitch Options:** Available in 3.5mm, 3.81mm, 5.0mm, 5.08mm, 7.5mm, and 7.62mm pitches to accommodate various PCB layouts.
- **Multiple Pin Configurations:** Offered in 2-pin (2P) to 12-pin (12P) configurations, allowing for flexible design.
- **Secure Screw Connection:** Provides a robust and reliable screw-type connection for wires, preventing accidental disconnections.
- **PCB Mount Design:** Designed for direct mounting onto printed circuit boards, ensuring stable integration.
- **Durable Construction:** Manufactured with high-quality materials for long-term performance and reliability.

4. Specifications

The following table details the general specifications for the KF128 series. Specific parameters may vary based on the exact model (pitch and pin count).

Parameter	Value
Model Series	KF128
Connector Type	Screw Terminal Block
Mounting Type	PCB Mount
Available Pitches	3.5mm, 3.81mm, 5.0mm, 5.08mm, 7.5mm, 7.62mm
Available Pins	2P, 3P, 4P, 5P, 6P, 7P, 8P, 9P, 10P, 12P
Color	Green (typical)
Manufacturer	Onvas
ASIN	B07QS649WJ
UPC	725391800397

5. Setup and Installation

Follow these steps for proper installation of the KF128 PCB Screw Terminal Block onto your printed circuit board.

1. **Prepare the PCB:** Ensure your PCB has pre-drilled holes corresponding to the pin pitch and configuration of your KF128 terminal block. The holes should be appropriately sized for the terminal pins.
2. **Align the Terminal Block:** Carefully align the pins of the KF128 terminal block with the corresponding holes on the PCB. Ensure the orientation is correct, typically with the screw terminals facing outwards for easy access.
3. **Insert the Pins:** Gently push the terminal block pins through the PCB holes until the base of the terminal block sits flush against the PCB surface. Avoid excessive force to prevent bending pins or damaging the PCB.
4. **Solder the Connections:** Solder each pin to its respective pad on the underside of the PCB. Use appropriate soldering techniques to ensure strong, reliable electrical and mechanical connections. Ensure no solder bridges form between adjacent pins.



Figure 5.1: A single 3-pin KF128 terminal block, showing the screw terminals and the PCB mounting pins. This image highlights the individual components of the terminal block.

6. Operating Instructions (Wire Connection)

Once the terminal block is soldered onto the PCB, follow these steps to connect wires securely.

1. **Prepare the Wire:** Strip approximately 5-7mm of insulation from the end of the wire you intend to connect. Ensure the wire strands are neatly twisted if it is a stranded wire.
2. **Loosen the Screw:** Using a small screwdriver (appropriate for the screw head type, typically flat-head or Phillips), turn the screw on the desired terminal counter-clockwise to open the clamping mechanism.
3. **Insert the Wire:** Insert the stripped end of the wire into the open terminal slot. Ensure all wire strands are fully inserted and no stray strands are exposed outside the terminal.
4. **Tighten the Screw:** Turn the screw clockwise to tighten the clamping mechanism onto the wire. Tighten firmly but do not overtighten, as this can damage the wire or the terminal block. The wire should be held securely and not pull out easily.

5. **Verify Connection:** Gently tug on the wire to confirm it is securely fastened. Repeat for all necessary wire connections.

7. Maintenance

The KF128 PCB Screw Terminal Blocks are designed for long-term reliability with minimal maintenance. However, periodic checks can help ensure optimal performance.

- **Visual Inspection:** Periodically inspect the terminal blocks for any signs of physical damage, corrosion, or discoloration.
- **Connection Integrity:** If an application involves vibration or frequent movement, periodically check the tightness of the screw connections to ensure wires remain securely fastened. Retighten if necessary.
- **Cleaning:** If dust or debris accumulates, gently clean the terminal blocks using a soft, dry brush or compressed air. Avoid using liquid cleaners that could leave residue or damage components.

8. Troubleshooting

This section addresses common issues you might encounter with the KF128 PCB Screw Terminal Blocks.

Problem	Possible Cause	Solution
Loose wire connection	Screw not tightened sufficiently; wire not fully inserted; incorrect wire gauge.	Ensure wire is fully inserted and screw is tightened firmly. Use appropriate wire gauge for the terminal.
Intermittent connection	Poor soldering of terminal to PCB; loose wire connection; corrosion.	Check solder joints and re-solder if necessary. Retighten wire screws. Inspect for corrosion and clean if present.
Difficulty inserting wire	Screw not loosened enough; wire end not properly prepared (e.g., frayed strands).	Loosen the screw further. Re-strip and twist wire strands neatly.

9. Warranty and Support

For specific warranty information regarding your DAVITU KF128 series PCB Screw Terminal Blocks, please refer to the purchase documentation or contact your supplier. As these are passive electronic components, warranty typically covers manufacturing defects.
For technical support or inquiries, please contact the manufacturer, Onvas, or your product distributor. Provide your product model (KF128) and any relevant purchase details when seeking support.
Manufacturer: Onvas
ASIN: B07QS649WJ
UPC: 725391800397

© 2023 DAVITU. All rights reserved.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

https://manuals.plus/asin/B07QS649WJ

More documents and user manuals: **https://manuals.plus/**