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› KEYAYEYA Compatible for TAMAGAWA Encoder TS6014N135 and TS6014N138 User Manual

KEYAYEYA TS6014N135, TS6014N138

KEYAYEYA Compatible for TAMAGAWA Encoder TS6014N135 and TS6014N138 User Manual

Models: TS6014N135, TS6014N138

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the KEYAYEYA Compatible for TAMAGAWA Encoder models TS6014N135 and TS6014N138. Please read this manual thoroughly before using the product to ensure safe and efficient operation. This encoder is designed for industrial applications requiring precise position sensing.

2. PRODUCT OVERVIEW

The KEYAYEYA Compatible for TAMAGAWA Encoder is an industrial-grade rotary encoder designed to provide accurate feedback for motion control systems. It is compatible with TAMAGAWA encoder models TS6014N135 and TS6014N138, offering a reliable solution for various industrial applications.

Key Features:

- High compatibility with TAMAGAWA encoder systems.
- Designed for precise position and speed feedback.
- Robust construction suitable for industrial environments.



Figure 1: Image of the KEYAYEYA Compatible for TAMAGAWA Encoder TS6014N135. This image displays the general appearance of the industrial rotary encoder, including its housing and connection interface.

3. SETUP AND INSTALLATION

Proper installation is crucial for the accurate and reliable operation of the encoder. Ensure all safety precautions are followed during installation.

3.1 Safety Precautions

- Disconnect all power to the system before installation or maintenance.
- Wear appropriate personal protective equipment (PPE).
- Ensure the mounting surface is clean, stable, and free from vibrations.

3.2 Mounting the Encoder

1. Identify the correct mounting position on the machine or motor shaft.
2. Securely attach the encoder using appropriate fasteners. Ensure the shaft coupling is properly aligned to prevent stress on the encoder bearings.
3. Avoid excessive force during mounting to prevent damage to the encoder or its internal components.

3.3 Electrical Connections

Refer to the wiring diagram provided with your specific system for detailed connection instructions. General guidelines include:

- Connect the power supply (VCC) and ground (GND) according to the specified voltage range.
- Connect the output signals (A, B, Z, and their inverted counterparts if applicable) to the control system's input terminals.
- Ensure all connections are secure and properly insulated to prevent short circuits or signal interference.
- Verify correct polarity before applying power.

4. OPERATING INSTRUCTIONS

Once installed and connected, the encoder operates by converting rotational motion into electrical signals, which are then interpreted by a control system (e.g., PLC, motor controller).

4.1 Initial Power-Up

1. After completing all electrical connections, apply power to the system.
2. Observe the control system's feedback to confirm the encoder is providing valid signals.
3. If the system includes diagnostic indicators, check for any error codes or warnings.

4.2 Signal Interpretation

The encoder typically outputs quadrature signals (A and B phases) for direction and position, and an index pulse (Z phase) for a reference point. Your control system's software will interpret these signals to determine position, speed, and direction of rotation.

- **A/B Phases:** Used for incremental position tracking and direction sensing.
- **Z Phase (Index):** Provides a single pulse per revolution for absolute position referencing.

5. MAINTENANCE

The KEYAYEYA Compatible for TAMAGAWA Encoder is designed for minimal maintenance. However, periodic checks can help ensure long-term reliability.

5.1 Routine Inspection

- **Visual Check:** Periodically inspect the encoder for any signs of physical damage, loose connections, or excessive dirt/debris accumulation.
- **Cable Integrity:** Ensure all cables are securely connected and free from cuts, abrasions, or kinks.
- **Mounting Security:** Verify that the encoder remains securely mounted and that the shaft coupling is intact and free from play.

5.2 Cleaning

If cleaning is necessary, use a soft, dry cloth. Avoid using harsh chemicals or abrasive materials that could damage the encoder's housing or seals.

6. TROUBLESHOOTING

This section provides guidance for common issues that may arise during the operation of the encoder.

Problem	Possible Cause	Solution
No signal output or incorrect readings.	• Incorrect wiring. • Insufficient power supply. • Damaged cable or connector. • Encoder damage.	• Verify all electrical connections against the wiring diagram. • Check power supply voltage and current. • Inspect cables and connectors for damage; replace if necessary. • If all else fails, the encoder may be faulty and require replacement.

Problem	Possible Cause	Solution
Intermittent signal or noisy output.	• Electromagnetic interference (EMI). • Loose connections. • Vibration or mechanical misalignment.	• Ensure proper shielding and grounding of cables. Separate signal cables from power cables. • Tighten all electrical and mechanical connections. • Check for excessive vibration or shaft runout; correct mechanical issues.
Incorrect direction of rotation.	• Incorrect A/B phase wiring. • Software configuration error.	• Reverse the A and B phase connections (if applicable and safe to do so). • Adjust the direction setting in the control system's software.

7. SPECIFICATIONS

The following specifications apply to the KEYAYEYA Compatible for TAMAGAWA Encoder models TS6014N135 and TS6014N138.

Parameter	Value
Model Compatibility	TAMAGAWA Encoder TS6014N135, TS6014N138
Package Dimensions	1 x 1 x 1 inches
Item Weight	4.4 pounds
Manufacturer	Original manufacturer (KEYAYEYA)
ASIN	B0G6DFBPPB
First Available Date	December 11, 2025

8. WARRANTY AND SUPPORT

This product is backed by a limited warranty and customer support to ensure your satisfaction.

- **Warranty:** The product is covered by a one-year limited warranty from the date of purchase. This warranty covers manufacturing defects under normal use.
- **Technical Support:** If you have any questions regarding your model, installation, or operation, please contact the seller for assistance.