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Narоote Narootefw9ks3ayh5

Manual Pulse Encoder User Manual

Brand: Narоote | Model: Narootefw9ks3ayh5

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your Narоote Manual Pulse Encoder. This high-efficiency 100PPR encoder, constructed from durable aluminum alloy, is designed for precise control in various CNC numerical control systems, including lathes, grinding machines, and milling machines.
Please read this manual thoroughly before using the product to ensure optimal performance and longevity.



Figure 1.1: Front view of the Narоote Manual Pulse Encoder, showing the main dial and central knob.

2. Product Features

- **Smooth and Easy Installation:** Designed for straightforward installation with a 6-terminal connection, ensuring a smooth setup process.
- **Wide Application:** Ideal for use in various CNC numerical control systems, including CNC lathes, grinding machines, milling machines, and engraving machines.
- **100PPR Output Pulse:** Provides a 100PPR (Pulses Per Revolution) output, ensuring high working efficiency and precision.
- **Durable Aluminum Alloy Shell:** Encased in a robust aluminum alloy shell for enhanced durability and longevity.
- **Long Line Driver Output:** Features a two-way quadrature output with a long line driver method for reliable signal transmission.

3. Specifications

Specification	Value
Item Type	6 Terminal Encoder
Material	Aluminum Alloy
Rotation Table Diameter	Approx. 80mm / 3.1in
Output Pulse	100PPR
Working Voltage	5V
Output Mode	Long line output
Package Dimensions	3.94 x 3.94 x 3.15 inches
Model Number	Narootefw9ks3ayh5
ASIN	B0B6VRNHX6

4. Setup and Installation

The Naroote Manual Pulse Encoder is designed for straightforward integration into your CNC system. The package includes the 6-terminal encoder, three accessories (likely nuts for mounting), and this manual.

4.1 Package Contents

- 1 x 6 Terminal Encoder
- 3 x Accessory (e.g., mounting nuts)
- 1 x User Manual

4.2 Wiring Instructions

Proper wiring is crucial for the encoder's functionality and to prevent damage. The encoder features a 6-terminal connection. Refer to the diagram below for terminal identification:



Figure 4.1: Bottom view of the encoder, illustrating the 6 terminal connections for wiring.

- Ensure all wiring connections are correct before initial startup. Incorrect wiring can damage the internal circuit of the encoder.
- Insulate any unused cables before the initial startup to prevent short circuits or interference.

4.3 Mounting

Mount the encoder securely using the provided accessories. Ensure the mounting surface is stable and free from vibrations that could affect performance. The rotation table diameter is approximately 80mm (3.1 inches).



Figure 4.2: Side view of the encoder, highlighting the rotation table diameter for mounting considerations.

5. Operating Instructions

The Naroote Manual Pulse Encoder functions as a precise input device for CNC numerical control systems. It generates 100 pulses per revolution (100PPR), providing fine control for various machine operations.

5.1 Basic Operation

- Connect the encoder to your CNC system's designated input terminals according to the wiring diagram provided by your CNC system manufacturer and section 4.2 of this manual.
- Rotate the encoder dial to generate pulse signals. Each click or increment corresponds to a specific number of pulses, as defined by the 100PPR output.
- The generated pulses are interpreted by the CNC controller to execute precise movements or adjustments.



Figure 5.1: The manual pulse encoder being used in conjunction with a CNC machine, demonstrating its application.



Figure 5.2: An operator precisely controlling a large industrial machine using the manual pulse encoder.

6. Maintenance and Care

To ensure the longevity and optimal performance of your Naroote Manual Pulse Encoder, adhere to the following maintenance guidelines:

- **Handle with Care:** The encoder is a precision instrument. Avoid knocking, dropping, or colliding with the unit during installation, operation, or storage. Improper handling can significantly affect its performance and service life.
- **Avoid Overload:** Do not subject the encoder to excessive loads or forces beyond its design specifications.
- **Observe Speed Limits:** Be careful not to exceed the maximum response frequency or limit speed of the encoder during use. Operating beyond these limits may result in the loss of electrical output from the encoder.
- **Keep Clean:** Regularly clean the exterior of the encoder with a soft, dry cloth. Avoid using abrasive cleaners or solvents that could damage the aluminum alloy finish or internal components.
- **Environmental Conditions:** Store and operate the encoder in a clean, dry environment, free from excessive dust, moisture, and extreme temperatures.

7. Troubleshooting

This section addresses common issues and provides solutions for the Naroote Manual Pulse Encoder.

Problem	Possible Cause	Solution
No output or erratic signals	Incorrect wiring; damaged internal circuit; exceeding limit speed.	Verify all wiring connections are correct as per Section 4.2. If wiring is confirmed correct, check if the encoder was operated beyond its speed limit. If damage is suspected, discontinue use.
Reduced performance or short service life	Improper installation; physical impact (knocking, dropping); overloading.	Ensure the encoder is installed correctly and securely. Avoid any physical impacts or overloading the unit. Refer to Section 6 for proper handling and care.
Encoder feels stuck or rough	Internal damage or debris.	The encoder should operate smoothly. If it feels stuck, it may indicate internal damage. Do not force rotation. Contact support if the issue persists.

8. Warranty and Support

Specific warranty details and direct support contact information are not provided within the product data. For warranty claims or technical assistance, please refer to the purchase documentation or contact your retailer or the manufacturer, Naroote, directly through their official channels.

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