

A860-0372-T001 FANUC Pulse Coder & Spindle Encoder



Brand: FANUC

SKU: A860-0372-T001

Category: Encoders & Resolvers

Tags: Absolute Encoder, Pulse Coder, Spindle Encoder

Price: \$950.00

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Product Page: <https://www.robospares.com/product/a860-0372-t001-fanuc-pulse-coder-spindle-encoder>

Product Description

The FANUC A860-0372-T001 is a fundamental and highly sensitive feedback component utilized within the Alpha i and Beta i series servo motor systems, commonly found in high-precision CNC machine tools and industrial robotics. This unit is a high-resolution absolute encoder, meaning it maintains positional memory even when the machine power is cycled off. It continuously transmits both the motor's current angular position (absolute data) and its rotational speed (velocity feedback) directly to the FANUC Servo Amplifier/Drive. This continuous, accurate data flow is non-negotiable for the successful execution of complex machining paths, tool changes, and precise synchronization of multiple machine axes. The encoder itself typically operates via a proprietary serial communication protocol (e.g., FANUC BiSS or similar high-speed interface) to ensure data integrity and low latency.

Key Technical Specifications:

Part Number: A860-0372-T001

Manufacturer: FANUC

Product Type: Pulse Coder (Rotary Encoder)

System Series Compatibility: FANUC Alpha i Series and Beta i Series Servo Motors (including models such as AiS 8, AiS 12, AiS 22, etc.)

Feedback Type: High Resolution Absolute Encoder

Signal Output: Serial Digital Output (Proprietary Interface)

Key Function: Provides essential absolute position and high-speed velocity feedback.

Failure Symptoms & Diagnosis:

Failures in the A860-0372-T001 are often electrical or optical, caused by vibration, contamination, or bearing wear. Common system faults triggered by encoder failure include:

- SV0401 (Soft Disconnect): Indicates the amplifier has lost communication with the pulse coder.
- SV0402 (Hard Disconnect): Signals a more severe or intermittent feedback error.
- Persistent Position Error: Uncommanded movement or inability to maintain the commanded position, often requiring immediate machine shutdown.

RoboSpares MRO Advantage:

Guaranteed Quality: Every Pulse Coder is bench-tested and rigorously validated on live, dedicated FANUC test rigs to verify pulse count accuracy, index signal stability, and high-RPM performance before being certified for sale.

Failure Resolution: A direct, tested replacement solution for critical position drift, intermittent feedback loss, and recurring encoder alarms.

Rapid Service: We stock this item in various conditions (New, Certified Refurbished, Tested Used) to minimize your machine's AOG (Aircraft On Ground) equivalent downtime.

Warranty: All units are backed by our industry-standard [12/24] Month operational warranty.

Application Notes & Critical Commissioning Steps:

The A860-0372-T001 is designed for direct mounting onto the servo motor shaft. When installing a replacement unit, two steps are critical:

1. **Cable Integrity:** Ensure the proprietary A660 series feedback cable is properly seated and undamaged to prevent signal noise (a common cause of intermittent SV0401 alarms).
2. **Absolute Position Setting:** As this is an absolute encoder, the position data stored within the new unit must be electronically written to the associated servo amplifier/drive. Failure to perform this specific commissioning procedure (usually via parameter setting or homing sequence) will result in immediate position mismatch errors and prevent the machine from running.

We strongly advise immediate replacement and professional installation upon diagnosis of persistent encoder faults.

Supplemental Images



All specifications are subject to change without notice. Errors and omissions excepted (E&OE). This document provides detailed technical data for industrial robot components.

For current pricing, stock levels, and expedited shipping options, please visit the official product page:

<https://www.robospares.com/product/a860-0372-t001-fanuc-pulse-coder-spindle-encoder>

Contact our technical support team at: sales@robospares.com