

Manuals.plus /

> [Square D](#) /

> Square D 9007B Rotary Head Without Lever Arm, for 9007C Limit Switches, Standard Pretravel Spring Return Operator, CW Actuation User Manual

Square D 9007B

Square D 9007B Rotary Head User Manual

Model: 9007B | Brand: Square D

PRODUCT OVERVIEW

This Square D 9007B rotary head without lever arm is designed for use with 9007C limit switches (sold separately). It features a standard Pretravel spring return operator and is engineered for clockwise (CW) actuation. Square D, a brand of Schneider Electric, has a long-standing reputation for safety, quality, and reliable performance in industrial electrical components.



Image: Square D 9007B Rotary Head without lever arm. This image displays the grey-colored main body of the rotary head, a gold-colored splined shaft extending from one side, and a label on top. The label includes text such as "OPERATING HEAD", "PRETRAVEL", "CLASS 9007", "TYPE", "SER A", "FORM", and "MADE IN MEXICO".

Key Features

- Designed for use with Square D 9007C limit switches.
- Features a standard Pretravel spring return operator.
- Engineered for Clockwise (CW) actuation.
- Compact dimensions for industrial applications.
- Manufactured in Mexico.

Specifications

Attribute	Value
-----------	-------

Attribute	Value
Model Number	9007B
Product Dimensions	5 x 10 x 8 inches; 8 ounces
Operation Mode	Manual
Current Rating	10 Amps
Contact Type	Normally Open
Connector Type	Modular
Terminal	Screw
Circuit Type	1-way
Actuator Type	Rotary
Contact Material	Copper
Manufacturer	Schneider Electric
Country of Origin	Mexico

SETUP AND INSTALLATION

The Square D 9007B rotary head is designed for seamless integration with 9007C limit switches. Adherence to proper installation procedures is crucial for optimal performance and safety.

- Compatibility Check:** Verify that the 9007B rotary head is the correct accessory for your specific 9007C limit switch model.
- Mounting:** Securely attach the rotary head to the designated mounting points on the limit switch body. Use appropriate fasteners and ensure they are tightened to the manufacturer's specifications to prevent any unintended movement or vibration during operation.
- Orientation:** Position the rotary head to align with the intended direction of actuation. This model is designed for clockwise (CW) actuation.
- Lever Arm (if applicable):** Although this specific 9007B model is supplied without a lever arm, if one is to be added, ensure it is correctly fitted onto the splined shaft and secured firmly. The lever arm's position should be adjusted to meet the application's requirements.
- Environmental Considerations:** Install the unit in an environment that complies with the product's specifications regarding temperature, humidity, and protection from contaminants to ensure long-term reliability.

OPERATING INSTRUCTIONS

The 9007B rotary head functions as the mechanical interface for a limit switch, translating external rotary motion into an electrical signal change.

- Actuation Principle:** The rotary head is designed to actuate the connected limit switch when its shaft rotates in a clockwise direction. The internal mechanism of the rotary head will engage the limit switch's plunger or lever, causing the electrical contacts to change state.
- Pretravel Functionality:** This model incorporates a standard pretravel spring return operator. Pretravel is the initial movement or rotation required by the actuator before the limit switch's contacts are activated.
- Reset Mechanism:** Once the external actuating force is removed, the spring return mechanism within the rotary head will automatically return the shaft to its original, unactuated position, thereby resetting the limit switch contacts.

- **Manual Operation:** The 9007B is a manually operated device, meaning its rotation is initiated by an external mechanical force or contact, rather than an electrical signal.

MAINTENANCE

To ensure the continued reliable operation and extended lifespan of your 9007B rotary head, periodic maintenance is recommended.

- **Visual Inspection:** Regularly inspect the rotary head for any visible signs of wear, such as cracks, deformation, or excessive play in the shaft. Check for corrosion, especially in humid or corrosive environments.
- **Cleaning:** Keep the exterior of the unit clean and free from dust, dirt, oil, and other contaminants. Use a dry, soft cloth for cleaning. Avoid using abrasive cleaners or solvents that could damage the material.
- **Lubrication:** The 9007B rotary head is generally designed to be maintenance-free regarding internal lubrication. Do not attempt to lubricate internal components unless explicitly instructed by Schneider Electric.
- **Shaft Movement:** Periodically check that the rotary shaft moves smoothly and freely without any binding or excessive friction.
- **Replacement:** If significant wear, damage, or erratic operation is observed, the rotary head should be replaced to maintain the integrity and safety of the control system.

TROUBLESHOOTING

This section provides guidance for common issues that may arise with the 9007B rotary head.

Problem	Possible Cause	Solution
Rotary head does not actuate the limit switch.	Incorrect mounting or alignment with the limit switch; Insufficient actuating force or travel; Worn internal mechanism of the rotary head.	Verify correct alignment and secure mounting of the rotary head to the limit switch; Ensure the external actuating mechanism provides adequate force and movement to engage the pretravel; Inspect the rotary head for wear and replace if necessary.
Shaft binds or moves stiffly.	Accumulation of dirt, debris, or foreign material; Mechanical damage to the shaft or housing; Misalignment during installation.	Clean the shaft area thoroughly; Inspect for physical damage such as bends or cracks and replace the unit if damaged; Re-check the mounting alignment.
Switch actuates intermittently or inconsistently.	Loose mounting screws; Excessive vibration in the application; Internal wear or fatigue of the spring return mechanism.	Tighten all mounting screws; Implement vibration dampening measures if possible; If wear is evident, consider replacing the rotary head.

Note: For persistent issues or problems not listed, it is recommended to consult with qualified industrial electrical technicians or contact Schneider Electric customer support.

WARRANTY INFORMATION

Square D products, manufactured by Schneider Electric, typically come with a standard manufacturer's warranty that covers defects in materials and workmanship. The specific terms, conditions, and duration of the warranty for the 9007B rotary head may vary based on your geographical region and the date of purchase. For precise warranty details, it is advisable to refer to the official warranty documentation provided with your product or visit the Schneider Electric official website.

This information is provided for general guidance and does not constitute a formal warranty statement.

SUPPORT AND CONTACT

For technical assistance, product inquiries, or customer support related to your Square D 9007B rotary head, please reach out to Schneider Electric directly.

Manufacturer: Schneider Electric

Official Website: www.se.com (Please navigate to the support section for specific contact methods.)

Square D Store on Amazon: [Visit the Square D Store](#)

When contacting support, please have your product model number (9007B) and any relevant purchase information readily available to facilitate faster service.

© 2024 Square D / Schneider Electric. All rights reserved.
This manual is for informational purposes only. Specifications are subject to change without notice.

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