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› JUGJCKJL GT2-H12K Displacement Sensor Instruction Manual

JUGJCKJL GT2-H12K

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1. INTRODUCTION

This manual provides essential information for the safe and effective use of the JUGJCKJL GT2-H12K Displacement Sensor. Please read this manual thoroughly before installation, operation, or maintenance to ensure proper functionality and to prevent damage to the device or injury to personnel. Keep this manual in a safe place for future reference.

2. PRODUCT OVERVIEW

The JUGJCKJL GT2-H12K is a high-precision displacement sensor designed for industrial applications requiring accurate measurement of linear displacement. Its robust construction ensures reliable performance in various environments.



Figure 1: JUGJCKJL GT2-H12K Displacement Sensor. This image displays the sensor unit, which is primarily black with a silver-colored probe extending from one end. The model number 'GT2-H12K' is visible on the side of the main body, along with 'GT2' in larger lettering.

3. SAFETY INFORMATION

Observe the following safety precautions to prevent electric shock, fire, or damage to the product:

- Ensure power is disconnected before performing any installation, wiring, or maintenance.
- Do not operate the sensor in environments exceeding its specified temperature or humidity limits.
- Avoid applying excessive force or impact to the sensor.
- Only qualified personnel should perform installation and wiring.
- Use appropriate personal protective equipment (PPE) when working with industrial equipment.

4. SETUP AND INSTALLATION

Follow these steps for proper installation of the GT2-H12K Displacement Sensor:

1. **Unpacking:** Carefully remove the sensor from its packaging. Inspect for any visible damage.
2. **Mounting:** Securely mount the sensor to a stable surface using appropriate fasteners. Ensure the sensor's probe is aligned correctly with the target object for accurate displacement measurement. Refer to the mounting dimensions in the specifications section.
3. **Wiring:** Connect the sensor to the control system according to the wiring diagram provided with your specific system integration. Ensure all connections are secure and correctly polarized. Incorrect wiring can damage the sensor or the control system.
4. **Power Connection:** Once mounting and wiring are complete, connect the power supply. Verify that the power supply voltage matches the sensor's requirements.

5. OPERATING INSTRUCTIONS

The GT2-H12K Displacement Sensor operates by detecting changes in the position of a target object. Once installed and powered, the sensor will begin to output data corresponding to the measured displacement.

- **Power On:** Apply power to the sensor. An indicator light (if present) may illuminate to confirm power.
- **Calibration (if required):** Depending on your application and control system, initial calibration or zero-setting may be necessary. Refer to your control system's manual for specific calibration procedures.
- **Monitoring Output:** Monitor the sensor's output signal through your connected control system or display unit. The output will vary proportionally with the displacement of the target.
- **Power Off:** Disconnect power when the sensor is not in use or during maintenance.

6. MAINTENANCE

Regular maintenance ensures the longevity and accuracy of your GT2-H12K Displacement Sensor.

- **Cleaning:** Periodically clean the sensor's exterior with a soft, dry cloth. For stubborn dirt, a slightly damp cloth may be used, but ensure no moisture enters the sensor housing. Do not use abrasive cleaners or solvents.
- **Inspection:** Regularly inspect the sensor and its wiring for any signs of wear, damage, or loose connections. Address any issues promptly.
- **Storage:** When not in use, store the sensor in a clean, dry environment within its specified temperature and humidity ranges.

7. TROUBLESHOOTING

If you encounter issues with your GT2-H12K Displacement Sensor, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No power/No indicator light	Incorrect wiring, power supply failure, loose connection	Check wiring connections, verify power supply voltage, ensure secure connections.
Inaccurate readings	Improper mounting, sensor contamination, calibration required	Re-check sensor alignment, clean sensor surface, perform system calibration.
Intermittent readings	Loose wiring, environmental interference	Secure all connections, check for sources of electrical interference.

8. SPECIFICATIONS

Technical specifications for the JUGJCKJL GT2-H12K Displacement Sensor:

- **Model:** GT2-H12K
- **Brand:** JUGJCKJL
- **Item Weight:** 7.1 ounces (200 Grams)
- **Package Dimensions:** 1.18 x 0.79 x 0.39 inches
- **Assembly Required:** No
- **Number of Pieces:** 1

9. SUPPORT AND WARRANTY

For technical support or warranty inquiries, please contact your supplier or the manufacturer directly. Retain your purchase receipt for warranty validation.