



High-accuracy Digital Contact Sensor GT2-70 Series Instruction Manual



■ **Symptome:**

The following symbols alert you to matters concerning the prevention of human injury and product damage. Be sure to read these messages carefully.

	It indicates a hazardous situation which, if not avoided, could result in death or serious injury.
	It indicates a situation which, if not avoided, could result in product damage as well as property damage.

Safety Information for GT2-70 Series

 WARNING	<p>If the following conditions are encountered, immediately turn OFF the power, continuing to use the GT2-70 Series under these abnormal conditions may cause equipment failure.</p> <ul style="list-style-type: none"> When water or foreign matter enters the controller When the GT2-70 Series is dropped or the housing is damaged When the GT2-70 Series produces smoke or an abnormal smell
 WARNING	<ul style="list-style-type: none"> Do not use the GT2-70 Series with a voltage other than specified voltage, as this may cause fire, electric shock or equipment failure. Do not disassemble or modify the GT2-70 Series. This may cause fire or electric shock. Do not use this product for the purpose to protect a human body or a part of human body. This product is not intended for use as explosion-proof product. Do not use this product in a hazardous location and/or potentially explosive atmosphere.
 NOTICE	<ul style="list-style-type: none"> Be sure to turn OFF the power of the GT2-70 Series and any connected devices before connecting or disconnecting the cables. Otherwise, there may be a risk of damage. Do not turn OFF the power while setting parameters. Otherwise, the settings may be partially or completely lost. At startup and during operation, be sure to monitor the function performance of the GT2-70 Series. Do not modify the GT2-70 Series or use in any way other than described in the specifications. The function performance of products used or modified in this way cannot be guaranteed. When the GT2-70 Series is used in combination with other instruments, function performance may be degraded, depending on operating conditions and the surrounding environment. Use the GT2-70 Series after fully studying the effect of combining use with other instruments. Do not expose the GT2-70 Series and peripheral devices to sudden temperature change. This may cause condensation, damaging the equipment. <p>● Environmental conditions</p> <p>To use the GT2-70 Series properly and safely, do not install the GT2-70 Series in the following locations. Use of this equipment in an improper environment may cause equipment failure.</p> <ul style="list-style-type: none"> Locations outside Locations with high humidity, a large amount of dust, or poor ventilation Locations where the temperature rises excessively due to direct sunlight, etc. Locations near corrosive or flammable gas Locations where the GT2-70 Series is directly subjected to vibration or impact Locations where water, oil or chemicals may come into contact with the GT2-70 Series Locations where static electricity may easily occur <p>● Noise countermeasures</p> <p>Installation near a source of electrical noise such as a power source or a power cable may cause malfunction or failure of the equipment. Adopt appropriate countermeasures against noise by using a noise filter or wiring cables in a separate shielded cable, adding insulation to the amplifier or the sensor head, etc.</p>

- Handling of the sensor head

- The GT2-P12KDL0F and P12LJLF gyros have no moving devices or precision machines. Do not drop, or cause any other impact to these devices. Doing so may cause damage or malfunction.
- Do not apply weight greater than what is listed below to the spindle. Applying too much weight will cause the spindle to break.
- The GT2-P12KDL0F/P12LJLF/PA12K/PA12L spindle can rotate a maximum of about 4.5°. When using an offset contact (OP-77683) or similar, if pressure in the rotational direction is applied to the contact, the measurement position may change.
- Avoid immersion in water. The GT2-P12KDL0F/P12LJLF/PA12K/PA12L/A32/ASO has a protection rating of IP67; avoid using it immersed in water or in places where liquid such as oil may come into contact with it.
- The GT2-P12KDL0F/P12LJLF/PA12K/PA12L/A32/ASO has a protection rating of IP67. If the device is used outdoors, protect the device from rain.
- If dust, metal powder, or similar becomes attached to the sliding part of the sensor head, mechanical responses may become slow. If this happens, replace the dust seal with a replacement dust seal (OP-Replacement Part Number: OP-S9739) for instructions on how to replace the dust seal.

☐ Other precautions:

- Effects of surrounding air temperature

To use the GT2-70 Series with high accuracy, do not use the GT2-70 Series in an environment in which the surrounding air temperature changes sharply. It will take about 40 minutes for the 12 mm type, and 60 minutes for the 32 mm/50 mm type for the internal temperature to stabilize when the surrounding air temperature has changed by 10°C.

Manufacturing 100

The circuit is not stable immediately after the power turns ON, which sometimes causes the indicated value to gradually fluctuate. Wait for about 5 minutes when using the 1:2 mm type and about 10 minutes when using the 32/50 mm tube after the power turns on before starting operation.

- GT2-PA12K/PA12 (See illustration 1 for the pneumatic circuit)

- This model uses a single-acting cylinder. The internal spring will return the sensor head to its home position.
- The air supply hole cannot be removed.
- Use an air filter, mist separator, etc., to provide clean dry air. Empty the filter and separator regularly.
- Before connecting the air tube to the air supply hole, be sure to blow plenty of air through the pipes (flushing) to remove any foreign matter.
- Make sure that the air pressure of the supplied air is constant and in the range of 0.25 to 0.5 MPa. Use the specified air pressure.
- If the air pressure is below 0.24 MPa, the spindle may not extend fully.
- When supplying air (with the spindle extended), up to 3L/min of air will be emitted from the tip of the dust seal.
- The internal spring of the device changes according to the air pressure of the supplied air. Refer to the table (Table 1-4) for details.
- GT2-A12K(L)/A12S/L/A32/A50 (See illustration 1 for the pneumatic circuit)
- This model uses a single-acting cylinder. The internal spring will return the sensor head to its home position when air pressure is removed. DO NOT supply air to the exhaust valve.
- The air cylinder cannot be removed.
- Use the regulator to supply the stable air pressure to the sensor head.
- Use the filter to filter the air. Be sure to supply dry air. Empty the drain from the filter regularly, before it exceeds the specified line.
- Make sure that the air pressure of the supplied air is constant and in the range of 0.25 MPa to 0.5 MPa.
- The air pressure of the supplied air is constant and in the range of 0.25 MPa to 0.5 MPa. Use the specified air pressure.
- The air cylinder and dedicated for this product. They cannot be removed.



- **Power supply**

- Noise superimposed on the power supply may cause malfunction. Be sure to use the DC-stabilized power supply provided with an insulation transformer.
- In the case of a commercially available switching regulator, be sure to ground the frame ground terminal or the ground terminal.

● Almost equal percent

When the dust boot of the sensor head is damaged, use an optional dust boot sold separately. For GT2-P1290 (P1290H1290) and GT2-P1290A12: CP-84332 (Material: NBR [attached when shipped]). For GT2-P1290 (P1290) and GT2-P1290A12: CP-87858 (Material: Fluororubber).

For GT2-H35-A32: CP-84458 (Material: NBR [attached when shipped]). For GT2-H35-A32 (Material: NBR [attached when shipped]): Attach the dust boot correctly to the sensor head. If the sensor head is damaged in a harsh environment it is recommended to use a new sensor head. Replace the dust boot regularly.

Precautions on Regulations and Standards

■ **CE Mackinnon**

■ EMC Directive (2004/108/EC)

- Applicable standard EMI: EN61326-1, Class A
EMS: EN61326-1
- This product is designed for use in industrial environments

Remarks: This specification does not give any guarantee that the end-product with this product incorporated complies with the essential requirements of EMC Directive. The manufacturer of the end-product is solely responsible for the compliance on the end-product itself according to EMC Directive.

■ **UL Certification**

UL File No. E120439 | Category: NFNT2:NFNT6

- Use the power supply with Class 2 output defined in NFPA70 (NEC: National Electrical Code).
- GT2 series are evaluated as open type devices. These products can not be a part of an enclosure.

Keyence Gt2 Series User Manual

R Barnett



Keyence Gt2 Series User Manual:

Metal Forming Mohsen Kazeminezhad, 2012-10-17 Different aspects of metal forming consisting of process tools and design are presented in this book. The chapters of this book include the state of art and analysis of the processes considering the materials characteristics. The processes of hydroforming, forging, and forming of sandwich sheet are discussed. Also, a chapter on topography of tools and another chapter on machine tools are presented. Design of a programmable metal forming press and methods for predicting forming limits of sheet metal are described. **Getinge K-series**, 20??

This book delves into Keyence Gt2 Series User Manual. Keyence Gt2 Series User Manual is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Keyence Gt2 Series User Manual, encompassing both the fundamentals and more intricate discussions.

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