



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



■ Summary

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	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. - 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	- 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 electric 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	- 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. ● Environmental conditions 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. - 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 ● Noise countermeasures 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.

- Handling of the sensor head

- The GT2-70 Series and peripheral devices are 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. Excess weight may cause damage to the spindle or the tool.
- The GT2-P12K/LF/P12L/P12K/P12K/A12 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.
- The GT2-P12K/LF/P12L/P12K/P12K/A12 spindle has a protection rating of IP67. GT2-P12K/LF/P12L/P12K/P12K/A12/ASD 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-P12K/LF/P12L/P12K/P12K/A12/ASD has a protection rating of IP67. The GT2-P12K/LF/P12L/P12K/P12K/A12/ASD has a protection rating of IP67. The device is not waterproof.
- 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-77683). Refer to the "Replacement of Dust Seal" section for details.
- Use only JSP-57393 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 increased by 10°C.

Manufacturing and

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 33/50 mm type 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 0.25 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 measuring ability of the device changes according to the air pressure of the supplied air. Refer to the table (Table 1-4) for details.
- GT2-A123SL/A123L/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 filter and drainage 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 0.25 MPa to 0.5 MPa. The air supplied with the air cylinder is 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:GT2-P1290H1290F1290F1290A12: CP-84332 (Material: NBR attached when shipped). For GT2-P1290F1290F1290F1290A12: CP-87858 (Material: Fluororubber). For GT2-H35A32: CP-84458 (Material: NBR attached when shipped). For GT2-H35A32 (Material: NBR attached when shipped).) Attach the dust boot correctly to the sensor head. In a dusty or sandy environment it is recommended to use a dust cover, 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).
- QT2 series are evaluated as open type devices. These products can not be a part of an enclosure.

Keyence Gt2 71n Series Setup Manual

Katrin Zwirglmaier



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Keyence Gt2 71n Series Setup Manual Introduction

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