



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



### ■ Symbols

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

	<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"> <li>When water or foreign matter enters the controller.</li> <li>When the GT2-70 Series is dropped or the housing is damaged.</li> <li>When the GT2-70 Series produces smoke or an abnormal smell.</li> </ul>
	<ul style="list-style-type: none"> <li>Do not use the GT2-70 Series with a voltage other than specified voltage, as this may cause fire, electric shock or equipment failure.</li> <li>Do not disassemble or modify the GT2-70 Series. This may cause fire or electric shock.</li> <li>Do not use this product for the purpose to protect a human body or a part of human body.</li> <li>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.</li> </ul>
	<ul style="list-style-type: none"> <li>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.</li> <li>Do not turn OFF the power while setting parameters. Otherwise, the settings may be partially or completely lost.</li> <li>At startup and during operation, be sure to monitor the function performance of the GT2-70 Series.</li> <li>Do not modify the GT2-70 Series or use it in any way other than described in the specifications.</li> <li>The function performance of products used or modified in this way cannot be guaranteed.</li> <li>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 combined use with other instruments.</li> <li>Do not expose the GT2-70 Series and peripheral devices to sudden temperature change. This may cause condensation, damaging the equipment.</li> </ul> <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"> <li>Locations outside.</li> <li>Locations with high humidity, a large amount of dust, or poor ventilation.</li> <li>Locations where the temperature rises excessively due to direct sunlight, etc.</li> <li>Locations near corrosion or flammable gas.</li> <li>Locations where the GT2-70 Series is directly subjected to vibration or impact.</li> <li>Locations where water, oil or chemicals may come into contact with the GT2-70 Series.</li> <li>Locations where static electricity may easily occur.</li> </ul> <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 separate ducts, attaching insulation to the amplifier of the sensor head, etc.</p>

NOTICE

● 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.
- Do not apply rotational torque. Otherwise the spindle may break.
- The GT2-P12K(P)/P12K(P)/PA12K(PA)2 spindle can rotate a maximum of about 4.5° when using an oil-seal connector (OP-77683) or similar. If pressure in the rotational direction is applied to the contact, the measurement position may change.
- Although the GT2-PA12K(PA)2/H12K(PH)2/H12K(PH)2/H12K(PH)2/A12K(A)2/A32(A)2 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.
- Although the GT2-P12K(P)/P12K(P) has a protection rating of IP67, avoid using it in places where liquid such as oil may come into contact with it.
- 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-87932). Refer to the instruction manual included with the replacement dust seal (OP-87932) 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 60 minutes for the 12 mm type, and about 90 minutes for the 32/50 mm type after the power turns on before starting operation.
- Warning up  
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 12 mm type and about 10 minutes when using the 32/50 mm type after the power turns on before starting operation.
- GT2-PA12K(PA)2 (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 drainage from the filter regularly, before it exceeds the specified line.
  - 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 0.24 to 0.26 MPa. Use a pressure regulator to control the 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 maximum allowable air pressure according to the air pressure of the air supply. Refer to "Specifications" (page 1-4) for details.
- GT2-A12K(L)/A12K(L)/A32(A)2 (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 air filter and mist separator to supply dry air. Empty the 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 0.3 MPa.
  - The coupling socket and the exhaust valve that are supplied with the air cylinder are 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-DC converter supplied with the instruction transformer.
  - In the case of a commercially available switching regulator, be sure to ground the frame ground terminal or the ground terminal.
- About dust boot  
When the dust boot of the sensor head is damaged, use an optional dust boot sold separately (For GT2-P12K(P)/P12K(P)/PA12K(PA)2: OP-84203 (Material: NBR attached when shipped). For GT2-P12K(P)/P12K(P)/OP-87932 (Material: Fluororubber). For GT2-H32(A)2: OP-84459 (Material: NBR (attached when shipped)). For GT2-H50(A)2 (Material: NBR (attached when shipped)).) Attach the dust boot correctly. The dust boot may deteriorate, depending on the environment it is used in. In this case, replace the dust boot regularly.  
\* Do not use the dust boot on the GT2-P12K(P)/P12K(P)/PA12K(PA)2/H12K(PH)2/H12K(PH)2/A12K(A)2/A32(A)2.

### Precautions on Regulations and Standards

- CE Marking
- 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 document does not guarantee that the end-product with this product incorporated complies with all 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 Certificate
- UL File No. E120439 (Category: NRNT2/NRNT8)
  - Use with 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

**F Rizvi**



## **Keyence Gt2 Series User Manual:**

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we used an approximate model of the beam to design these two controllers a priori there is no guarantee that these controllers will perform well on the real beam see more

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lqg control is a natural formulation for active vibration control the lqg control setup is depicted in figure 2 the signals and are the process and see more

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web fig 2 shows the position of the attached piezoelectric patch on beam the piezoelectric actuator's dimension is as shown in the figure and a voltage  $v$  is applied to it  $z$   $y$  fig 2

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web  $w \sqrt{eig} m_{gc} 1 k_{gs} 6$  where  $k_{gs}$  the global static stiffness matrix of the beam and  $m_{gc} 1$  is the global consistent mass matrix however in forced vibration

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figure 1 depicts an active vibration control system for a flexible beam figure 1 active control of flexible beam in this setup the actuator delivering the force see more

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web 1 d e s e 2 where  $t$  is the stress field  $c$  is the compliance tensor  $s$  is the strain field  $e$  is the piezo stress coefficient tensor  $e$  is the electric field  $d$  is the electric

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