



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

	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.
	- 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.
	- 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 it 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 combined 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 corrosion 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 separate ducts, attaching insulation to the amplifier of the sensor head, etc.

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(F)/P12L(F)/PA12K/PA12L spindle can rotate a maximum of about 4.5° when using the rated 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/PA12L/H12K/F/H12H12P/H12H12L/H12A12L/A12L/A32/A50 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(F)/P12L(F) has a protection rating of IP67, avoid using it in places where liquid 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/PA12L (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)/A12L(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 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.



Illustration 1 - Pneumatic circuit

- Power supply
 - Noise superimposed on the power supply may cause malfunction. Be sure to use the DC-DC converter supplied with the installation 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(F)/P12L(F)/PA12K/PA12L: OP-84203; (Material: NBR attached when shipped). For GT2-P12K(F)/P12L(F): OP-87932; (Material: Fluororubber). For GT2-H32/A32: OP-84459; (Material: NBR attached when shipped). For GT2-H50/A50 (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, P12L, PA12K, PA12L, H12K, F/H12L, F/H12L, H12A12L, A12L, A32, A50.

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 71n Series Setup Manual

Mark Steyvers



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Table of Contents Keyence Gt2 71n Series Setup Manual

1. Understanding the eBook Keyence Gt2 71n Series Setup Manual
 - The Rise of Digital Reading Keyence Gt2 71n Series Setup Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Keyence Gt2 71n Series Setup Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Keyence Gt2 71n Series Setup Manual
 - User-Friendly Interface

4. Exploring eBook Recommendations from Keyence Gt2 71n Series Setup Manual
 - Personalized Recommendations
 - Keyence Gt2 71n Series Setup Manual User Reviews and Ratings
 - Keyence Gt2 71n Series Setup Manual and Bestseller Lists
5. Accessing Keyence Gt2 71n Series Setup Manual Free and Paid eBooks
 - Keyence Gt2 71n Series Setup Manual Public Domain eBooks
 - Keyence Gt2 71n Series Setup Manual eBook Subscription Services
 - Keyence Gt2 71n Series Setup Manual Budget-Friendly Options
6. Navigating Keyence Gt2 71n Series Setup Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Keyence Gt2 71n Series Setup Manual Compatibility with Devices
 - Keyence Gt2 71n Series Setup Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Keyence Gt2 71n Series Setup Manual
 - Highlighting and Note-Taking Keyence Gt2 71n Series Setup Manual
 - Interactive Elements Keyence Gt2 71n Series Setup Manual
8. Staying Engaged with Keyence Gt2 71n Series Setup Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Keyence Gt2 71n Series Setup Manual
9. Balancing eBooks and Physical Books Keyence Gt2 71n Series Setup Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Keyence Gt2 71n Series Setup Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Keyence Gt2 71n Series Setup Manual
 - Setting Reading Goals Keyence Gt2 71n Series Setup Manual
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Keyence Gt2 71n Series Setup Manual
 - Fact-Checking eBook Content of Keyence Gt2 71n Series Setup Manual
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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