



## 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/H12K(PH)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, some types of oil may damage the device.
- 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 precision 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)/A12(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 provided 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(P)/P12K(P)/PA12K(PA)2: OP-84039 (Material: NBR attached when shipped). For GT2-P12K(P)/P12K(P)/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(P)/P12K(P)/PA12K(PA)2/H12K(PH)2/H12K(PH)2.

### Precautions on Regulations and Standards

- CE Marking
- EMC Directive (2004/108/EC)
  - Applicable standard EM: 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

**Yan Bai**



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

**Electrochemical Techniques and Corrosion Monitoring** C. Tiburcio,H. Castaneda,M. Pech-Canul,M. Itagaki,2015-04-30      *Communications, Signal Processing, and Systems* Qilian Liang,Jiasong Mu,Wei Wang,Baoju Zhang,2017-10-27 This book brings together papers presented at the 2016 International Conference on Communications Signal Processing and Systems which provides a venue to disseminate the latest developments and to discuss the interactions and links between these multidisciplinary fields Spanning topics ranging from communications to signal processing and systems this book is aimed at undergraduate and graduate students in electrical engineering computer science and mathematics researchers and engineers from academia and industry as well as government employees such as NSF DOD and DOE

**Methods and Techniques of Signal Processing in Physical Measurements** Robert Hanus,Damian Mazur,Christian Kreischer,2019-01-07 This book discusses selected issues of modern electrical metrology in the fields of sensor technology signal processing and measurement systems addressing theoretical problems and applications regarding measurements in electrical engineering mechanics telecommunications medicine and geology as well as in the aviation and transport industries It presents selected papers from the XXII International Seminar of Metrology Methods and Techniques of Signal Processing in Physical Measurements MSM2018 held in Rzesz w Ar am w Poland on September 17 20 2018 The conference was organized by the Rzeszow University of Technology Department of Metrology and Diagnostic Systems Poland and Lviv Polytechnic National University Department of Information Measuring Technology Ukraine The book provides researchers and practitioners with insights into the state of the art in these areas and also serves as a source of new ideas for further development and cooperation

**Material Forming** Anna Carla Araujo,Arthur Cantarel,France Chabert,Adrian Korycki,Philippe Olivier,Fabrice Schmidt,2024-05-20 These ESAFORM 2024 conference proceedings cover a wide range of topics Additive manufacturing Composites forming processes Extrusion and drawing Forging and rolling Formability of metallic materials Friction and wear in metal forming Incremental and sheet metal forming Innovative joining by forming technologies Optimization and inverse analysis in forming Machining Cutting and severe plastic deformation processes Material behavior modelling New and advanced numerical strategies for material forming Non conventional processes Polymer processing and thermomechanical properties Sustainability on material forming Keywords WAAM Technology Fused deposition Modeling FDM Fiber Composite Printers Ultrasonic Powder Atomization Finite Element Modeling FEM Laser Powder Bed Fusion L PBF Rapid Prototyping in Additive Manufacturing Directed Energy Deposition DED GTAW Droplet Deposition Deep Learning Thermoplastic Pultrusion Textile Reinforcements Thermoforming Simulation New Sustainable Materials Non Crimp Fabrics CFRP Scraps PEEK Composites Thermoplastic Sheets Flax PP Composites

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**Microscale Surface Tension and Its Applications** Pierre Lambert, Massimo Mastrangeli, 2019-10-21 Building on advances in miniaturization and soft matter surface tension effects are a major key to the development of soft fluidic microrobotics Benefiting from scaling laws surface tension and capillary effects can enable sensing actuation adhesion confinement compliance and other structural and functional properties necessary in micro and nanosystems Various applications are under development microfluidic and lab on chip devices soft gripping and manipulation of particles colloidal and interfacial assemblies fluidic droplet mechatronics The capillary action is ubiquitous in drops bubbles and menisci opening a broad spectrum of technological solutions and scientific investigations Identified grand challenges to the establishment of fluidic microrobotics include mastering the dynamics of capillary effects controlling the hysteresis arising from wetting and evaporation improving the dispensing and handling of tiny droplets and developing a mechatronic approach for the control and programming of surface tension effects In this Special Issue of Micromachines we invite contributions covering all aspects of microscale engineering relying on surface tension Particularly we welcome contributions on fundamentals or applications related to Drop botics fluidic or surface tension based micro nanorobotics capillary manipulation gripping and actuation sensing folding propulsion and bio inspired solutions Control of surface tension effects surface tension gradients active surfactants thermocapillarity electrowetting elastocapillarity Handling of droplets bubbles and liquid bridges dispensing confinement displacement stretching rupture evaporation Capillary forces modelling measurement simulation Interfacial engineering smart liquids surface treatments Interfacial fluidic and capillary assembly of colloids and devices Biological applications of surface tension including lab on chip and organ on chip systems

**Advances in Manufacturing** Adam Hamrol, Olaf Ciszak, Stanisław Legutko, Mieczysław Jurczyk, 2017-10-18 This book covers a variety of topics in material mechanical and management engineering especially in the area of machine design product assembly measurement systems process planning and quality control It describes cutting edge methods and applications together with exemplary case studies The content is based on papers presented at the 5th International Scientific Technical Conference MANUFACTURING 2017 held in Poznan Poland on 24-26 October 2017 The book brings together engineering and economic topics is intended as an extensive timely and practice oriented reference guide for researchers and practitioners and is expected to foster better communication and closer cooperation between universities and their business and industry partners

**Bioimage Data Analysis Workflows – Advanced Components and Methods** Kota Miura, Nataša Sladoje, 2022-09-28 This open access textbook aims at providing detailed explanations on how to design and construct image analysis workflows to successfully conduct bioimage analysis Addressing the main challenges in image data analysis where acquisition by powerful imaging devices results in very large amounts of collected

image data the book discusses techniques relying on batch and GPU programming as well as on powerful deep learning based algorithms In addition downstream data processing techniques are introduced such as Python libraries for data organization plotting and visualizations Finally by studying the way individual unique ideas are implemented in the workflows readers are carefully guided through how the parameters driving biological systems are revealed by analyzing image data These studies include segmentation of plant tissue epidermis analysis of the spatial pattern of the eye development in fruit flies and the analysis of collective cell migration dynamics The presented content extends the Bioimage Data Analysis Workflows textbook Miura Sladoje 2020 published in this same series with new contributions and advanced material while preserving the well appreciated pedagogical approach adopted and promoted during the training schools for bioimage analysis organized within NEUBIAS the Network of European Bioimage Analysts This textbook is intended for advanced students in various fields of the life sciences and biomedicine as well as staff scientists and faculty members who conduct regular quantitative analyses of microscopy images      Regional Industrial Buying Guide ,1996      Tissue Engineering ,2008

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