



## High-accuracy Digital Contact Sensor

### GT2-PA12K/PA12

## Instruction Manual

### Introduction

Read this instruction manual carefully prior to operating this product. For connection, settings and precautions on use, make sure to read the GT2 Series instruction manual included with the amplifier. Be sure to store this manual in a convenient place so that it is readily accessible for reference. Ensure that the personnel who will actually operate the product have access to this manual. For details of each function, refer to the GT2 Series User's Manual. You can download the User's Manual from KEYENCE homepage (<http://www.keyence.com/>).

<b>WARNING</b>	It indicates a hazardous situation which, if not avoided, could result in death or serious injury.
<b>NOTICE</b>	It indicates a situation which, if not avoided, could result in product damage as well as property damage.

### Safety precautions

<b>WARNING</b>	<ul style="list-style-type: none"> <li>This product is designed to detect the target object. Do not use this product to protect human bodies or a part of a human body.</li> <li>This product is not intended for use as an explosion-proof product. Do not use this product in hazardous locations and/or potentially explosive atmospheres.</li> </ul>
<b>NOTICE</b>	<ul style="list-style-type: none"> <li>● <b>Warning up</b> 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 after the power turns on before using.</li> <li>● <b>Handling of the sensor head</b> <ul style="list-style-type: none"> <li>This device is a precision machine. Do not drop, or cause any other impact to this device. Doing so may cause damage or malfunction.</li> <li>Do not apply weight greater than what is listed below to the spindle. Do not apply rotational torque. Otherwise the spindle may break.</li> <li>The spindle can rotate a maximum of 4.5°. When using an offset contact (GCP-77602) or similar, if pressure in the rotational direction is applied to the contact, the measurement position may change.</li> <li>When attaching and removing contacts, make sure that the sensor head is detached from any metallic plates, etc. Apply a tightening torque of 0.2 N·m or less when attaching the contact.</li> <li>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 end of the sensor head with a replacement dust seal (GCP-87902). Refer to the instruction manual included with the replacement dust seal (GCP-87902) for instructions on how to replace the dust seal.</li> <li>Although the GT2-PA12K/PA12 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.</li> </ul> </li> </ul>

### Checking the package

GT2-PA12K/PA12



Sensor head = 1  
Precautions on Handling = 2

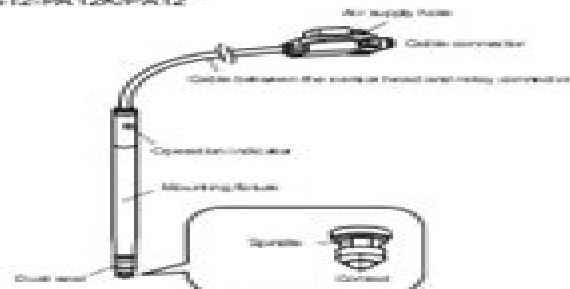
If you find that a part is faulty or broken, contact your KEYENCE representative.

### Sensor head connection cable



### Names of parts of the sensor head

- GT2-PA12K/PA12

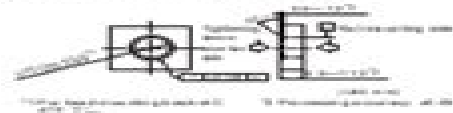


### Mounting the sensor head

When mounting to the jig, make a round hole on the jig beforehand.

- Using mounting bracket A/C

- Work the sensor head mounting part as below.



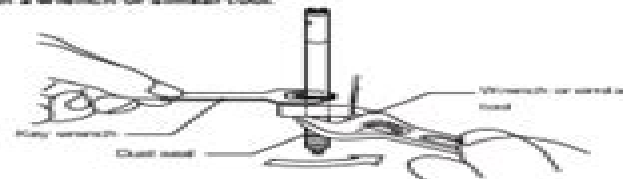
- Insert the tightening sleeve into the hole made in step 1 (from the chamfered side), and loosely tighten with the nut. Next, insert the sensor head.



#### NOTICE

If the nut is fully tightened when the sensor head is not yet inserted, the fixture will become deformed.

- Secure the sensor head with the supplied key wrench and tighten the nut with a wrench or similar tool.



#### NOTICE

Apply a tightening torque of 5 to 7 N·m (the recommended tightening torque is 5 N·m).

# Pa12 Service Manual

**Werrett Wallace Charters,A. B.  
Lemon,Leon M. Monell**



## Pa12 Service Manual:

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## **Table of Contents Pa12 Service Manual**

1. Understanding the eBook Pa12 Service Manual
  - The Rise of Digital Reading Pa12 Service Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Pa12 Service 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 Pa12 Service Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Pa12 Service Manual
  - Personalized Recommendations
  - Pa12 Service Manual User Reviews and Ratings
  - Pa12 Service Manual and Bestseller Lists
5. Accessing Pa12 Service Manual Free and Paid eBooks
  - Pa12 Service Manual Public Domain eBooks
  - Pa12 Service Manual eBook Subscription Services
  - Pa12 Service Manual Budget-Friendly Options
6. Navigating Pa12 Service Manual eBook Formats

- ePub, PDF, MOBI, and More
- Pa12 Service Manual Compatibility with Devices
- Pa12 Service Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Pa12 Service Manual
  - Highlighting and Note-Taking Pa12 Service Manual
  - Interactive Elements Pa12 Service Manual
- 8. Staying Engaged with Pa12 Service Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Pa12 Service Manual
- 9. Balancing eBooks and Physical Books Pa12 Service Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Pa12 Service Manual
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Pa12 Service Manual
  - Setting Reading Goals Pa12 Service Manual
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Pa12 Service Manual
  - Fact-Checking eBook Content of Pa12 Service 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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