



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.
- For GT2-H12K/F/H12H12P/H12H12L/H12A12L/A12L/A32/A50, 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. If the temperature of the surrounding air is 15°C or higher, or 5°C or lower than the normal temperature to stabilize when the surrounding air temperature has changed by 10°C.
- 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 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)/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 or supply with an isolation 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-87683 (Material: Fluororubber). For GT2-H12K/F: OP-84459 (Material: NBR) (attached when shipped). For GT2-H12K/F (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(F)/P12L(F)/PA12K/PA12L/H12K/F/H12H12P/H12H12L/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 manufacturer declares and guarantees 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 Certificate
- UL File No. E124049 (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.

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RD Boyd



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