

### ■ Notice in Handling and Storage

1. Optical lens and light receiving area of sensor should not be scratched or soiled.
2. Strong shock should be avoided.
3. Electrostatics and strong electromagnetic field should be avoided.
4. High temperature, high humidity, fluid as water or alcohol etc., corrosive gas (SO<sub>2</sub>, Cl<sub>2</sub>, NO<sub>x</sub> etc.) and sea breeze should be avoided.

### ■ Precautions (Keeping & Operating Environment)

1. The delivered product should be stored with the conditions as follows and in dry box or N<sub>2</sub> atmosphere, and the warranty term for the shipped product shall be for 6 month after shipping to the designated place by the order customer.  
Storage Temperature: 15°C to 35°C,  
Humidity: below 70%RH
2. Regarding treatment after unsealed, devices should be mounted under the temperature condition of 5°C to 30°C, at the humidity condition of below 60%RH, within 168 hours and in case that long term storage is needed, devices should either be stored in dry box or resealed to moist-proof bag with siccative and leave them in the environment where the temperature is 15°C to 30°C, at humidity condition of below 70%RH, and devices must be mounted within 1 weeks.


### ■ Precautions (Notes for Rated Value)


1. In the case of outdoor use, suitable optical filter and water and humidity proof structure should be applied.
2. To prevent failure or malfunction, please use a stabilized power supply.
3. Please avoid using the sensor in the following conditions because it may cause failure or malfunction;
  - (a) In such a fluid as water, alcohol etc. corrosive gas (SO<sub>2</sub>, Cl<sub>2</sub>, NO<sub>x</sub> etc.) or sea breeze.
  - (b) In high humidity.
  - (c) In a place exposed directly to sunlight or headlight of automobile.

3. Regarding baking before mounting, in the event that the devices are not maintained in the storage conditions described above, baking must be applied before devices are not mounted. The case that LT-1PA01 was not mounted under the temperature condition of 15°C to 30°C, at humidity condition of below 70%RH within 168 hours after 1st time reflow, baking process must be applied before 2nd time reflow. And also please note that baking should only be applied twice.  
Recommended condition of the devices and reel baking: 100°C, 4 hours

\*\*To complete the baking properly, devices should be placed to the metal tray. And also in the case of reel baking, hung the reel in the oven by passing the shaft in the center hole of reel and please avoid laying the reel.

- (d) In a place exposed to rapid ambient temperature change.
- (e) In a place exposed directly to blow from air-conditioner or heater.
- (f) In a place exposed to strong vibration.
- (g) In a place exposed to strong electromagnetic field.
- (h) In such a place where infrared ray is shaded.
- (i) In any other place similar to the above (a) through (h).

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■ **Precautions (Notes for Mounting)**

1. Regarding baking before mounting, in the event that the devices are not maintained in the storage conditions described above, baking must be applied before devices are not mounted. The case that LT-1PA01 was not mounted under the temperature condition of 15°C to 30°C, at humidity condition of below 70%RH within 168 hours after 1st time reflow, baking process must be applied before 2nd time reflow. And also please note that baking should only be applied twice.

Recommended condition of the devices reel baking:  
100°C, 4 hours

\*\*To complete the baking properly, devices should be placed to the metal tray. And also in the case of reel baking, hung the reel in the oven by passing the shaft in the center hole of reel and please avoid laying the reel.

2. Please follow soldering conditions described in the specification. This product can permanently stop operating if the optical characteristic is decreased due to excessive heating.
3. Cleaning after reflow soldering should not be applied. Optical lens and light receiving area of sensor should not be soiled because it may cause failure or malfunction.
4. As electrostatic field or discharge may degrade this product, please take methods such as wearing wrist strap, grounding working desk or equipment to avoid this damage.