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# H series

## PRECAUTIONS FOR USING H SERIES THERMAL PROTECTOR

The performance of the H series Thermal Protector can be affected by proper storage, handling, mounting location and usage environment. Please refer to the following guidelines to achieve an optimal performance of thermal device.

### STORAGE

Product must be store in a ventilated, clean, dry, non-corrosive gas warehouse, also keep the humidity $\leq 55\%$ , temperature is  $20^{\circ}\text{C}\pm 10^{\circ}\text{C}$ .

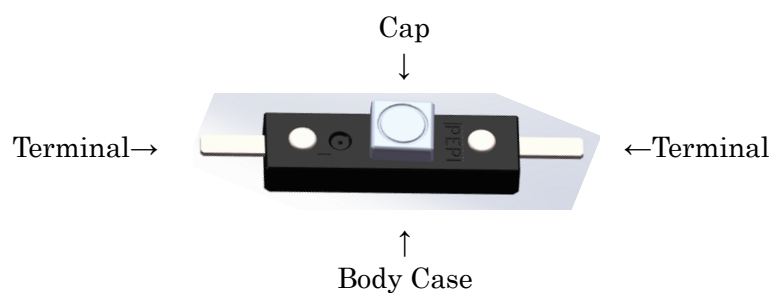
The location shall be no direct sun light, no rapid change of temperature, humidity also be free from shock and vibration.

For long-term storage from purchase to use, please perform appearance, contact resistance and X-ray inspection before use,

### MOUNTING

Please note the following when installing H series thermal protector during appliance connection to achieve an optimal performance.

<Example of H series construction>



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- a) During the installation, the terminals can't be bended, twist, pull or push.  
It needs to keep the original shape between the terminal and the body case.  
Otherwise, it will affect the reliability of electrical connections.
  - b) The metal cap surface shall not be deformed or loosened during installation to avoid affecting the functioning temperature or other electric property.
  - c) Please avoid the body case bear external force caused cracking or damage.  
The body case must keep clean and prevent contamination of conductive material.

## **EXAMINATION FOR DAMAGE**

An examination for damage of the thermal protector should be done after the device-to-wiring harness connections are made. X-raying before and after the assembly operation and close visual inspection with special attention made at the cap for damage.

We recommend the following inspections at the time of thermal protector received and after secondary processing

- Visual inspection: Check for damage to the cap, terminal and case such as scratches and dents before and after secondary processing
- Contact resistance inspection: Finding of secondary processing abnormalities
- X-Ray inspection: Finding the quality effects of excess heat

## **SAFETY PRECAUTIONS**

When using a thermal protector, use it lower the rated voltage and rated current listed in catalog. If a thermal protector is used higher level of the rated voltage and rated current, the contacts may be welded, leading to malfunction or even non-operation.

Please do not use under the following environments without any protection.

- a) In liquid such as water, oil, organic solvents and chemicals.
- b) In places full of corrosive gases such as sea breeze, ammonia gas, sulfurous acid gas, nitrogen oxide gas and formic acid.
- c) In places high humidity environment

## **REPLACEMENT**

It should be made clear for reasons of safety, that H series Thermal Protector is a non-repairable item and that in case of replacement an equivalent H series with the same catalogue number shall be used and mounted in exactly the same way.