

AC current sensing switch (Mini NC)

GTL30NC instruction manual

Product Description

The current induction switch is a kind of switch output detection, monitoring, protection and alarm product developed by using the principle of current electromagnetic mutual inductance and advanced passive self power supply technology in order to monitor or detect the current of electrical equipment safely, simply and conveniently.

Product technical parameters

Current trigger value: 0.2~30A/50A

Frequency range: 40~400Hz

Switching time: within 0.1 second (0.3 second at low current)

Switch contact capacity: MAX: 0.5A@240/260Vac/dc

Overload capacity: +100% @ 50A

Hysteresis: $\leq 1\%$

Weight: 0.065KG

Indicator light: Red & green

Installation form: M4 screw or guide rail (din35 mm Type)

Shell material: ABS, T765A 94V-0

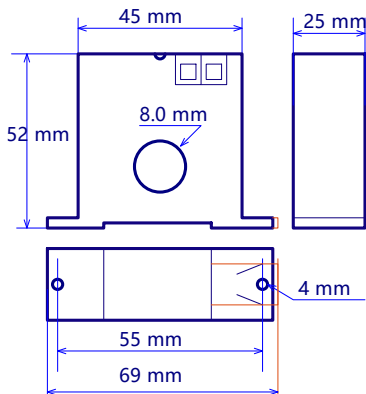
Operating Temperature: $-40^{\circ}\text{C} \sim 55^{\circ}\text{C}$

Storage Temperature: $-50^{\circ}\text{C} \sim 65^{\circ}\text{C}$

Operating humidity: 0~95%

IP level: IP30

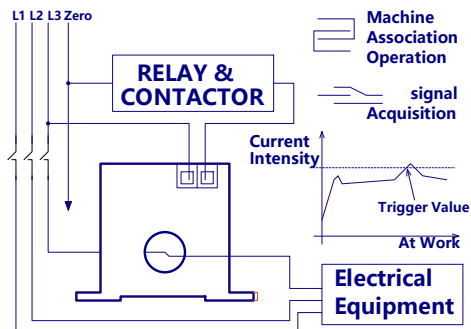
Product shell size



Trigger value setting and related instructions

- Before setting, the threading current above 0.1A must be connected.
- Over current monitoring and detection settings: expand the current start value clockwise (turn to red light), lock the start value anticlockwise (turn to green light); For under current monitoring and detection, on the basis of over-current setting, turn clockwise to red light.
- Normal closed type: Overcurrent switch contact is closed, multi-meter detection is not available before the light is on. Red light on: switch contact closed; The green light is on: the switch contact is open.

Installation and application (typical application)



Switch contacts can pass AC DC current, connect inductive, capacitive and resistive loads, and can also be used as PLC signal collection.

Precautions for use

- 1、 It shall be installed by electrician certificate or relevant technical personnel or trained and qualified personnel. Disconnect all power supply during installation to ensure safety.
- 2、 The hole diameter of flat mounting screw is 4.5mm, which can be fixed with M4 screw. The installation of guide rail is suitable for din35mm.
- 3、 All the switch products mentioned in this paper can not be used in the direct sunlight, the working temperature is higher than 55°C , and the damp and dripping places. The products are not waterproof.
- 4、 The current carrying capacity of switch terminal is Max: 0.5A @ 260vac / DC; It is forbidden to power on directly without passing the load, otherwise the product will be damaged permanently.
- 5、 When applying the product, the through current value should be within the current range on the label. If the current value is lower than the specified range, the requirement can be achieved by increasing the number of turns.
- 6、 The through-hole of the switch products described in this paper can only pass through the synchronous in-phase current cable, and two or more different phase current lines are forbidden to pass through, otherwise the switch can not play a normal monitoring role
- 7、 In the installation and use of the process, if you encounter doubts or problems, please contact your sales staff to explain the situation. Our technical staff will provide follow-up service. Please don't repair it by yourself, otherwise you will lose your rights and services.