

ZMLD20-60DA1T Series Hall Current Sensor



A new type of current sensor using the principle of magnetic modulation, with stable output and high insulation between primary and secondary, capable of measuring weak DC signals.

Features

- Using magnetic modulation principle
- Meet UL94-V0 standard

Advantage

- Easy to install
- Low power consumption
- Wide measuring range
- Strong anti-interference ability
- Strong overload capacity

Application

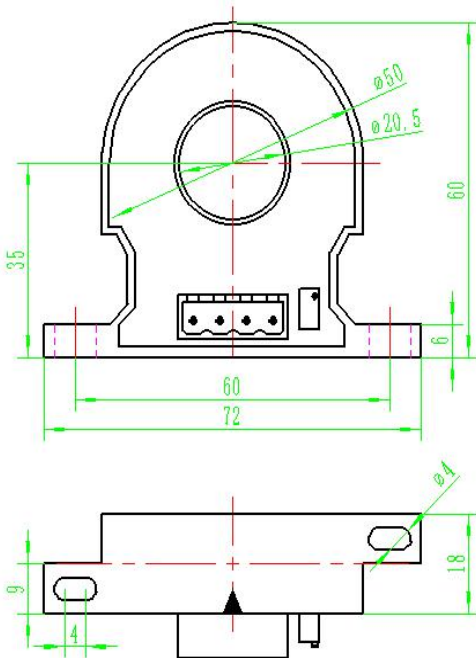
- DC screen
- Battery leakage insulation test
- Column cabinet
- Signal system

Performance parameters

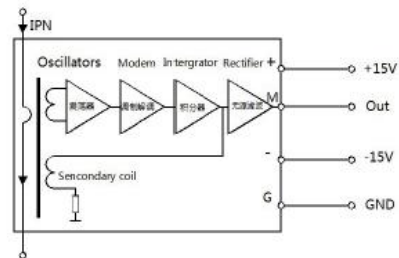
Electrical parameter					
Rated current rms DC	I _{pn}	±10mA	±20mA	±50mA	±100mA
Measuring range	I _{pm}	±12mA	±24mA	±60mA	±120mA
Rated output	I _{sn}	±5V			
Load resistance	R _L	>10KΩ			
Supply voltage	U _c	±12V~±15V			
Current consumption	I _c	15mA			
Insulation voltage	V _d	3kVAC/50Hz/1min			
Dynamic parameters					
Class (@I _{pn} , Ta=25°C)	X _G	<±1%			
Linearity (@Ta=25°C)	E _r	<±0.5%FS			
Zero offset voltage (@Ta=25°C, I _p =0)	V _{OE}	<±50mV			
Offset voltage drift	TCV _{OE}	<±1.5mV/°C			
Response time	T _r	<300ms			
General parameters					
Ambient operating temperature	T _a	-40~+85°C			
Ambient storage temperature	T _s	-20~+70°C			
Case material		PBT G30/G15 UL94-V0			
Executive standard		EN50178:1998 IEC60950-1:2001 SJ20790-2000			

Structure

Unit: mm



Instruction



1. The direction of the current should be the same as the direction of the arrow of the casing;
2. Please refer to the wiring definition on the physical shell, the wrong wiring will damage the module;
3. In order to obtain better dynamic characteristics and sensitivity, it is recommended to use a single turn wire and the wire fills the module through the wire hole best;
4. The primary side wire temperature should not exceed 100°C;
5. The above parameters are standard specifications, and the products can be customized according to customer