Rongtech Industry (ShangHai) Inc.,

RTO500K1T5 Series Open Loop Mode Dismountable Hall Effect Current Sensor







RT0500K1T5 series dismountable hall effect current sensor is a open loop device based on the measuring principle of the hall effect ,with a galvanic isolation between primary and secondary circuit, it provides accurate electronic measurement of DC, AC or pulsed currents.

Electrical data(Ta=25 °C ± 5°C, RL=2K Ω , C L=10000PF)									
Type Parameter	RT030K1T5	RT050K1T5	RT0100K1T5	RT0200K1T5	RT0300K1T5	RT0400K1T5	RT0500K1T5	Unit	
Rated current(Ipn)	±30	± 50	±100	±200	± 300	±400	± 500	А	
Measuring range(Ip)	± 60	± 100	±200	± 400	± 600	± 800	±1000	А	
Rated output	@Ip=±Ipn 2.5±1(1%FS)						V		
Supply voltage	$+5\pm10\%$						V		
Power Consumption	≤25						mA		
Zero voltage	@Ip=0 +2.5±0.5%						V		
Offset voltage	@Ip=0 ±20						mV		
Magnetic offset	@Ip=±Ipn-0 ±20						mV		
Offset drift	@ -40~+85°C ≤±1						mV/°C		
output drift	@ -40~+85°C ≤±1						mV/°C		
Linearity	@Ip=0-±Ipn ≤1					%FS			
Response time	@50A/µ S, 10%-90% ≤5					μS			
Galvanic isolation	@ 50Hz, AC, 1min 2.5						KV		
Isolation resistance	@ DC 500V 1000					MΩ			

General date								
	Value	Unit	Symbol					
Operating temperature	-40 to +85	° C	ТА					
Storage temperature	-40 to +125	°C	TS					
Mass(approx)	72	g	М					

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Applications

- 1. Variable speed drives
- 3. Battery supplied applications
- 2. Welding machine
- 4. Uninterruptible Power Supplies (UPS)

- 5. Electrochemical
- Mechanical dimension(for reference only)



Remarks: 1. All dimensions are in mm.



Directions for use

1. When the current will be measured goes through a sensor, the voltage will be measured at the output end. (Note: The false wiring may result in the damage of the sensor)

2. Custom design in the different rated input current and the output voltage are available.

