



Current transducer RCS 07A series

Open loop Hall effect current transducer RCS 07A series are for the measurement of currents: DC, AC, pulsed and irregular wave currents with galvanic isolation between the primary circuit and the secondary circuit.



Performance parameters

Electric parameters						
I _{pn}	Nominal RMS current	100A	200A	300A	400A	500A
I _p	Measuring range	200A	400A	600A	800A	1000A
V _{sn}	Output voltage @ I _{pn}	4 V				
R _m	Load resistance R _{max}	≥10kΩ				
V _c	Supply voltage	±12V ~ ±15V				
I _c	Current consumption	≤20mA				
V _d	Withstand voltage	3kV _{rms} /50Hz/min				
Dynamic parameters						
X	Accuracy @ Ta=25℃	±1% FS				
ε _L	Linearity @ Ta=25℃	±0.5% FS				
V _o	Offset voltage @ Ta=25℃	±30mV				
V _{OM}	Magnetic offset voltage I _{pn} →0	±40mV				
V _{OT}	Thermal drift	≤±1mV/℃				
Tr	Response time	≤5us				
BW	Bandwidth (-0.5dB)	DC~50kHz				
di/dt	Following accuracy					
General parameters						
T _a	Operating temperature	-40~+85 ℃				
T _s	Storage temperature	-40~+90 ℃				
W	Weight	80g				
Standards		EN50178:1998, CE, RoHS, ISO9001				



Features

- Open loop
- According to UL 94-V0 requirements
- CE and RoHS verified

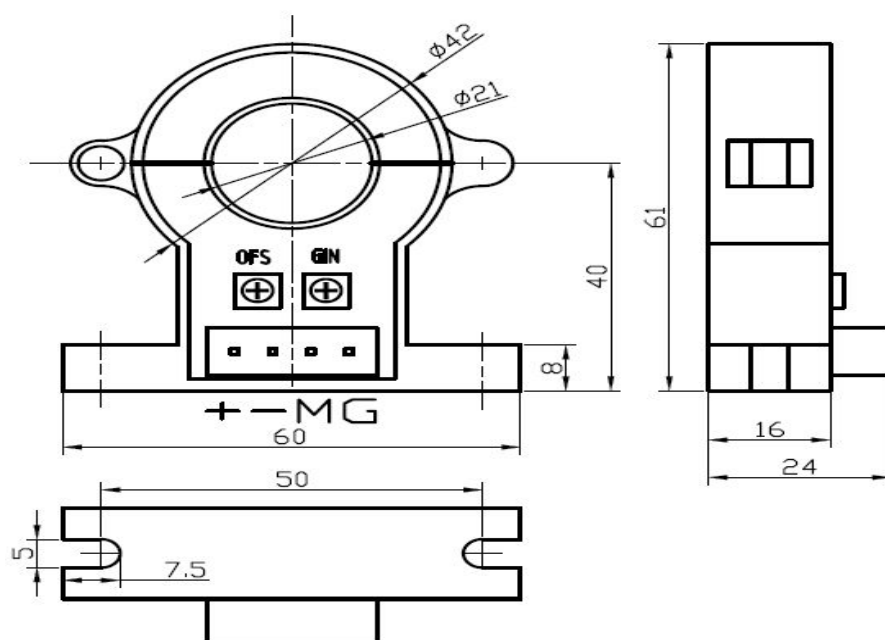
Superiorities

- Excellent accuracy, very good linearity
- Low thermal drift
- Wide bandwidth
- Fast response
- High immunity to external interference
- Good overload capability
- Low inductance

Applications

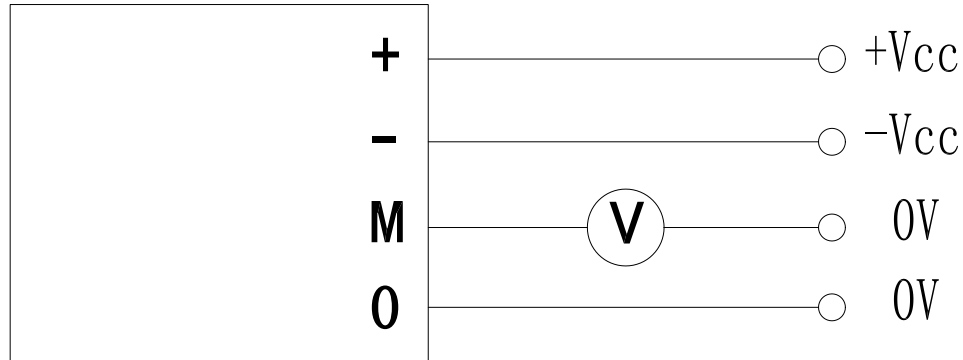
- VF speed regulating device
- Converter
- UPS
- SMPS
- Electric locomotive
- Grid monitoring
- Industry

Dimension





Connection



Notices

- Please connect according to the dimension drawing in which defining the current flowing direction and the function of the PIN.
- The temperature of the primary busbar can't be over 100℃.
- We can also develop and manufacture transducers depending on customers' requirements. Welcome to communicate with us when you are in this kind of demand.