HKC-B Hall-effect Current Sensor Series

HKC-B series is a new generation of current sensor based on the principle of Hall-effect It can be used for detecting DC、 pulse and various irregular waveform current under electrical isolation between output and input.

Electrical characteristics

	Type	HKC050B	HKC100B	HKC200B	HKC400B	HKC500B	HKC600B	
I_{PN}	Primary nominal input current	50	100	200	400	500	600	A
I_P	Measuring primary current range	150	300	600	900	900	900	A
V_{SN}	Nominal output voltage	4±1%						V
V_C	Supply voltage	±12~±15（±5%）						V
I_C	Current loss	V_C=±15V		20				mA
V_d	Insulation voltage	2.5KV AC/50Hz/1min						

Dynamic characteristics

ε_L	Linearity	±1	%FS
V_0	Offset voltage	T_A =25℃ ±25	mV
V_{OM}	Residual voltage	I_P→0 ±25	mV
V_{OT}	Offset voltage temperature drift	I_P=0 T_A=–10~ +70℃ ±0.5	mV/℃
T_R	Response time	≤3	μs
f	Band width（-3dB）	DC~20	KHz

Generic characteristics

T_A	Operation temperature	-40~+85	℃
T_S	Storage temperature	–55 ~+125	℃
R_L	Load resistance	≥10	KΩ
	Standard		

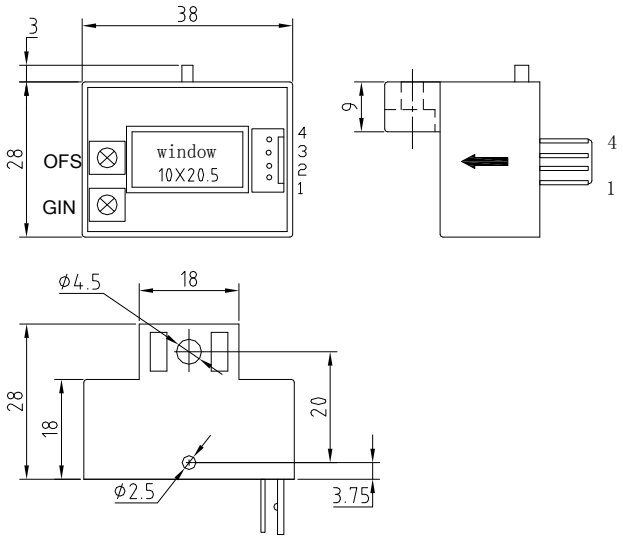
Advantages

- ◆ insulation between input and output
- ◆ competitive quality /price rate
- ◆ no insertion loss
- ◆ easy to installation
- ◆ small size, light heavy

Typical applications

- ◆ welding machine
- ◆ electric welding equipment for the control of the welding current
- ◆ frequency conversion timing system
- ◆ UPS ,switching power supplies

package outline（*mm*）



Elucidation: 1：+15V 2：－15V 3：Vout 4：0V OFS： zero adjustment GIN：gain adjustment