DATA SHEET
Hall Effect Current Sensor

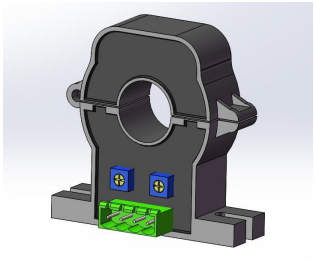
PN:CHK_EK15D4	I_{PN}=3A-200A

Feature

- Open- loop
- Supply voltage: DC±9V~±16VDC
- Capable measurement of currents: DC, AC,pulse with galvanic isolation between primary circuit and secondary circuit.
- Internal circuit adopts ASIC packaging technology products

Advantages

- Integrated design
- Easy mounting
- No insertion loss
- Wide application



Applications

- AC variable speed drives
- Communication power supply
- Machine tool equipment
- Large welding machine
- other

CE RoHS

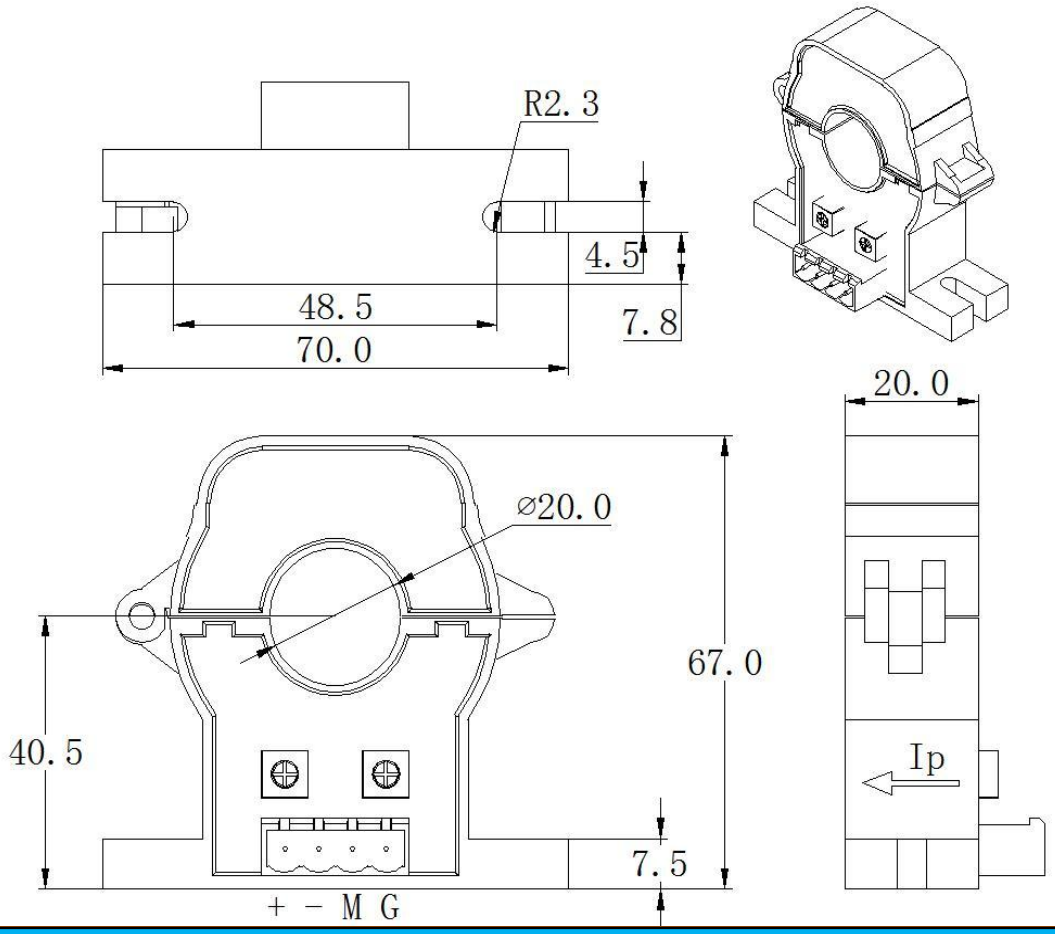
Electrical data： （Ta=25℃， Vc=±15VDC,RL=10KΩ ）

	CHK05EK 15D4	CHK10EK 15D4	CHK20EK 15D4	CHK50EK 15D4	CHK100E K15D4	CHK200EK1 5D4
Rated input Ipn(A)	±5A	±10A	±20A	±50A	±100A	±200A
Measuring range Ip(A)	±6A	±12A	±24A	±60A	±120A	±240A
Rated output volatage (V_{OUT})	±4V or ±5V					
Supply voltage VC(V)	±9V~±16VDC					
Current consumption(I_C)	≤40mA					
Galvanic isolation(V_D)	50Hz,1min,5kV					
Offset current(Io)	±5mA					
Output voltage(T_R)	<7 μs					
Offset current drift(I_{OT})	≤0.05mV/℃					
Accuracy (x)	0.5%					
Linearity error εr(%FS)	1%					
Bandwidth-3db(BW)	DC-25KHZ					

General data:

Parameter	Value
Operating temperature TA(°C)	-40 ~ +85
Storage temperature TS(°C)	-40~ +125
Mass M(g)	≈80g
Plastic material	PBT G30/G15, UL94- V0;
Standards	IEC60950-1:2001
	EN50178:1998
	SJ20790-2000

Dimensions(mm):



Remarks:

- When the current goes through the primary pin of a sensor, the voltage will be measured at the output end.
- Custom design is available for the different rated input current and the output voltage.
- The dynamic performance is the best when the primary hole if fully filled with.
- The primary conductor should be <100°C.

WARNING : Incorrect wiring may cause damage to the sensor.