CHCS-EK20 系列电流传感器

CHCS- EK20 Hall-effect Current Sensor Series

基于霍尔效应原理的开环电流传感器。它可用于测量交流、直流、脉冲和混合电流。

Open loop current sensor based on the principle of Hall-effect. It can be used for measuring AC,DC,pulsed and mixed current.

★用于测量交流和直流等混合电流

Used to measure mixed current such as AC and DC

★20mm 穿孔尺寸

20mm perforation size



选型信息(见右图)
Selection information (right figure)

额定量程 Rated range:
5A
10A
20A
50A
100A
200A

额定输出 Rated Output:
O9: 0-±5V

供电电源 Supply voltage:
P1: ±15dc

CHCS-EK20-5AP1 O9

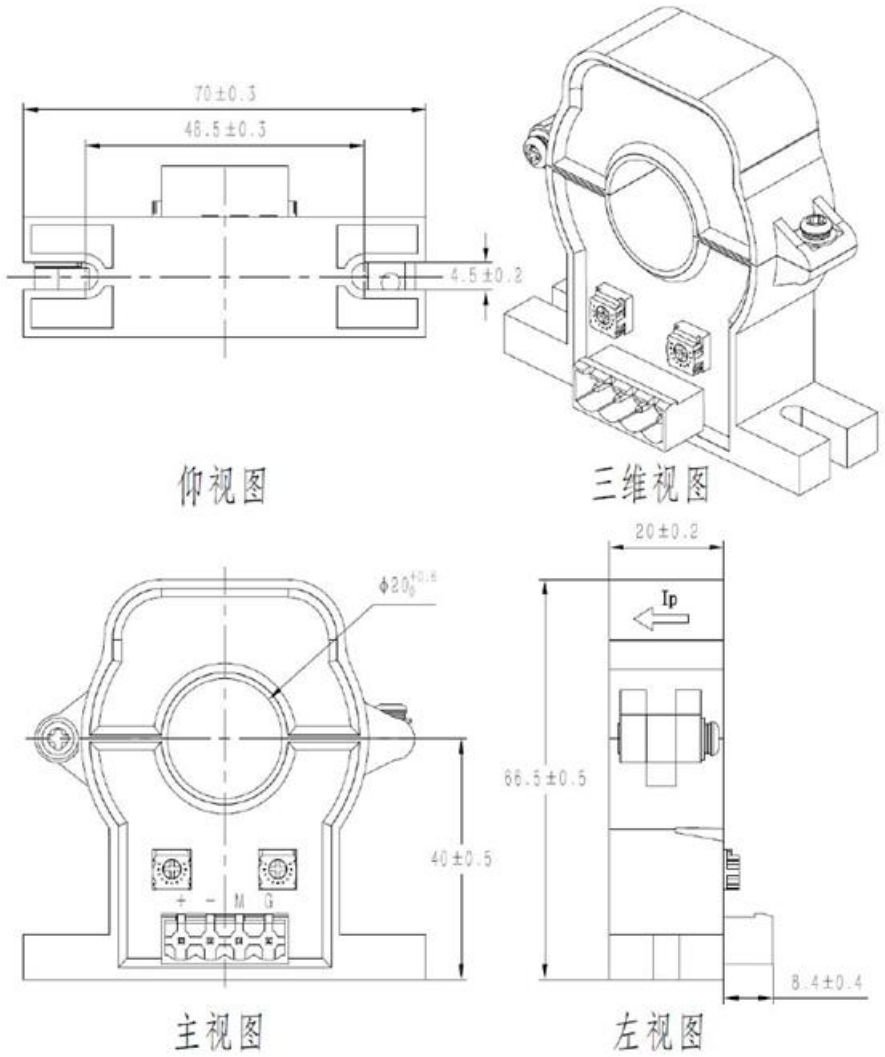
额定输入： customized 5A 10A 20A 50A 100A 200A xxx: 自定义 customized	供电电源 Supply voltage: P1:±15dc xx: 自定义 customized	额定输出 Rated Output: O9: 0-±5V xx:自定义 customized

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电气特性 **Electrical connection diagram** ：			
Ipn	额定测量电流值 Primary nominal input current	5A、10A、20A、50A、100A、200A	A
IP	对应测量电流范围 Measuring range of primary current	120% * Ipn	A
Vsn	额定输出电压 Nominal output voltage	0-±5V 或自定义	V
Vc	供电电压 Supply voltage	±15(±5%)	Vdc
Ic	耗电 power consumption	≤40mA	mA
X	精度（Ta =+25℃） accuracy（Ta =+25℃）	1	%
E_L	线性度误差 Linearity	0.5	%FS
Voff	失调电压（Ta =+25℃） Offset voltage（Ta =+25℃）	5	mV
VOM	磁失调电压（Ta =+25℃） Residual voltage	<±20 I_{PN}→0	mV
VOT	失调电压温漂 Thermal drift of V0	<±0.05 IP=0 TA=－40~+85℃	mV/℃
Tr	响应时间 Response time	≤ 7	uS
f	频率范围 Frequency bandwidth(-3dB)	DC～25	kHz
Vd	工频耐压 Rms voltage for AC isolation	6 (50HZ,1min)	KV

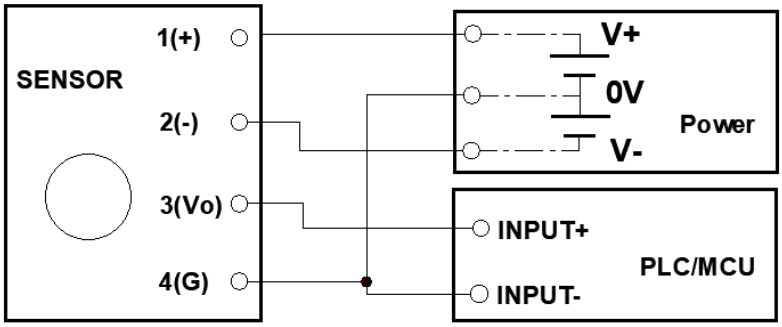
常规参数 General:			
Ta	工作温度 Ambient operating temperature	-40 - +85	℃
Ts	贮存温度 Ambient storage temperature	-40 - +125	℃
W	重量 weight	125±30	g
St	执行标准 Execution standards	JB/T 7490-2007	
Hw	工作湿度 Working humidity	20-90% 无凝露	
	外壳材料 Housing material	符合 UL94-V0	

结构尺寸 Dimensions of drawing (mm):



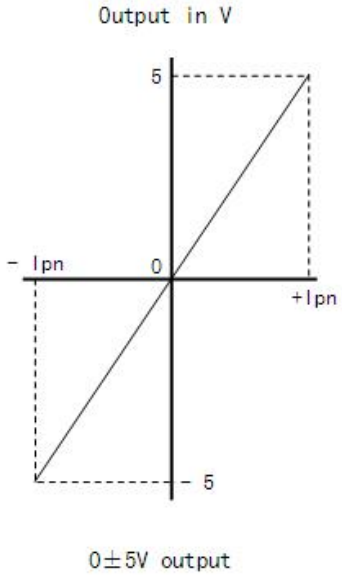
基本尺寸误差	±1mm 其它公差执行 GB/T 1804-2000-M
原边孔径	Φ20mm
盘式安装	2 个 Φ4.5mm 孔
输出端子	KF2EDGV-X-5.08-4P

接线定义 Wiring Definition:



NO.	definition
1 +	+ 15V
2 -	- 15v
3 M	Vout
4 G	0V(GND)

输出曲线 Output curve：



Security matters：



1. Attention should be paid to the bare conductive part of the terminal when wiring to prevent ESD impact as far as possible. It needs professional construction experience engineers to wiring the product. The connecting wires of power supply, input and output must be connected correctly, and must not be dislocated or reversed, otherwise the product may be damaged.
2. There should be no conductive dust in the installation and use environment.
3. The potentiometer installed on the product is used for internal debugging and calibration of the company, and the user can not be adjusted.
4. Severe vibration or high temperature may also cause damage to products.Please pay attention to using environment.



1. Please pay attention to the danger of electric shock. After installation, the operator should not touch any bare conductive parts. When necessary, sensors can be protected, such as protective cover and so on.

Note: 1. the company has the right to interpret the specification. If there is any objection, please contact our company's technical support.
2. the instructions will be updated regularly. Please pay attention to our website at any time without prior notice.