



DATA SHEET

Hall Effect Current Sensor

PN: CHK_KS5S2

IPN=400-2000A

Feature

- Open-loop
- Capable measurement of currents: DC, AC,pulse with galvanic isolation between primary circuit and secondary circuit.
- Supply voltage: DC +5.0V

Advantages

- Easy installation
- No insertion losses
- Low power consumption
- Wide current measuring range
- High immunity to external interference
- Can be customized

Applications

- Inverter applications
- AC/DC variable-speed drive
- Uninterruptible Power Supplies (UPS)
- Switched Mode Power Supplies (SMPS)
- Frequency drive control home appliances



RoHS



Electrical data: (Ta=25°C, Vc=+5.0VDC,RL=2KΩ)

Parameter	Ref	CHK400 KS5S2	CHK600 KS5S2	CHK800 KS5S2	CHK1000 KS5S2	CHK1200 KS5S2	CHK2000 KS5S2
Rated input Ipn(A)		400	600	800	1000	1200	2000
Measuring range Ip(A)		0~±400	0~±600	0~±800	0~±1000	0~±1200	0~±2000
Output voltage Vo(V)				2.500±2.0*(IP/IPN)			
Output voltage Vo(V)		@IP=0,T=25°C		2.500			
Load resistance RL(KΩ)				>2.0			
Supply voltage VC(V)				+5.0 ±5%			
Accuracy XG(%)		@IPN,T=25°C		< ±1.0			
Offset voltage VOE(mV)		@IP=0,T=25°C		< ±25			
Temperature variation of VOE VOT(mV/°C)		@IP=0,-40 ~ +85°C		< ±1.0			
Hysteresis offset voltage VOH(mV)		@IP=0,after 1*IPN		< ±20			
Linearity error er(%FS)				< 1.0			
Di/dt (A/μs)				> 100			
Response time tra(μs)		@90% of IPN		< 5.0			
Power consumption IC(mA)				15			
Bandwidth Bw(KHZ)		@-3dB, IPN		DC-20			



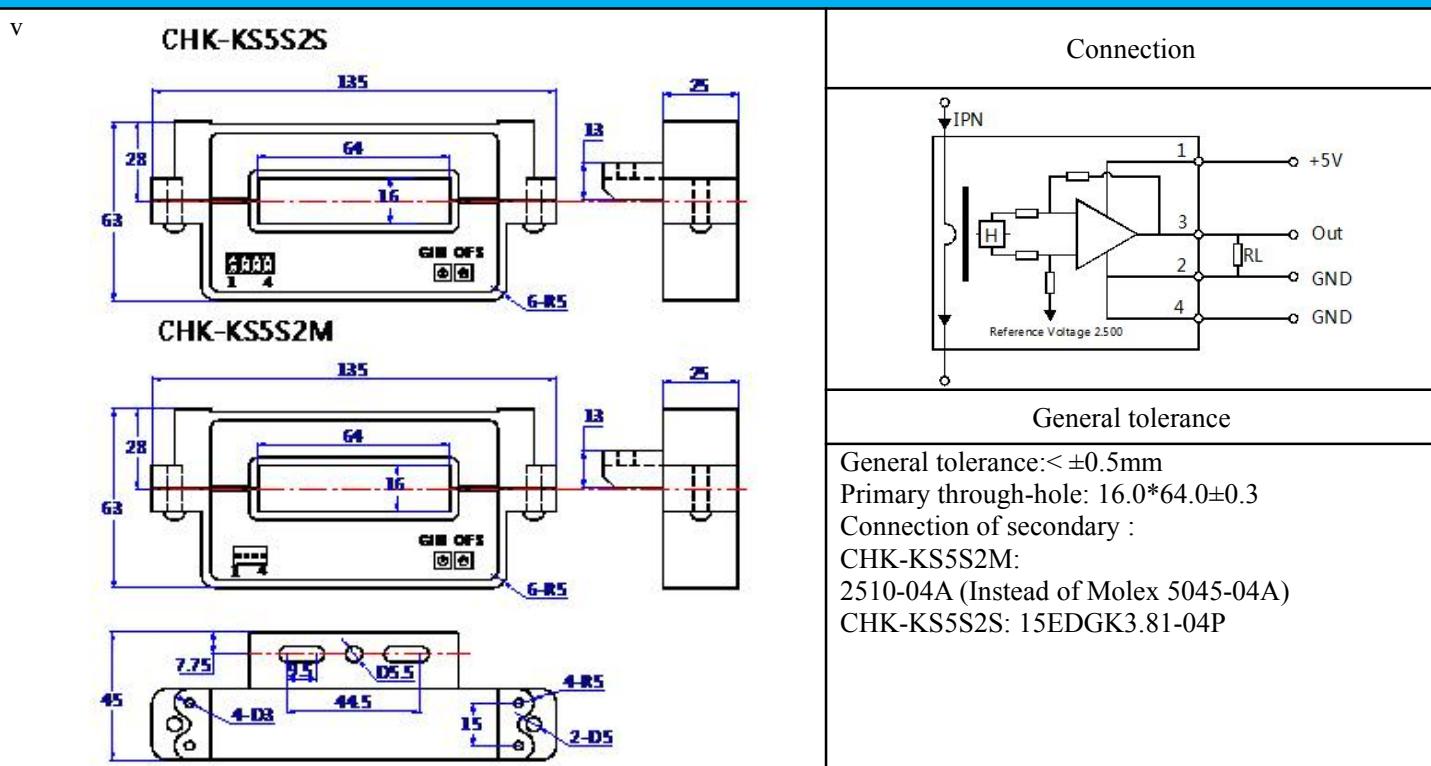
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General data:

Parameter	Value
Operating temperature TA(°C)	-40 ~ +85
Storage temperature TS(°C)	-55~ +125
Mass M(g)	200
Plastic material	PBT G30/G15, UL94- V0; IEC60950-1:2001
Standards	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.

