Cheemi Technology Co., Ltd

DATA SHEET
Hall Effect Current Sensor

PN: CHK_EKA15D4	IPN=50-600A

Feature

- Open- loop
- Capable measurement of currents: DC, AC,pulse with galvanic isolation between primary circuit and secondary circuit.
- Supply voltage: DC ±12~15V
- Removable structure

Advantages

- Excellent accuracy
- Easy installation
- No insertion losses
- Low power consumption
- Wide current measuring range
- High immunity to external interference
- Very good linearity
- 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

Electrical data：（Ta=25℃， Vc=±15.0VDC,RL=10KΩ）

Parmeter \ Ref	CHK50 EKA15D4	CHK100 EKA15D4	CHK200 EKA15D4	CHK300 EKA15D4	CHK400E KA15D4	CHK600 EKA15D4
Rated input Ipn(A)	50	100	200	300	400	600
Measuring range Ip(A)	0～±150	0～±300	0～±600	0～±900	0～±900	0～±900
Output voltage Vo(V)	±4.0*(IP/IPN)					
Load resistance RL(KΩ)	>10					
Supply voltage VC(V)	(±12~±15) ±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	< ±25				
Linearity error εr(%FS)	< 1.0					
Di/dt accurately followed （A/μs）	> 100					

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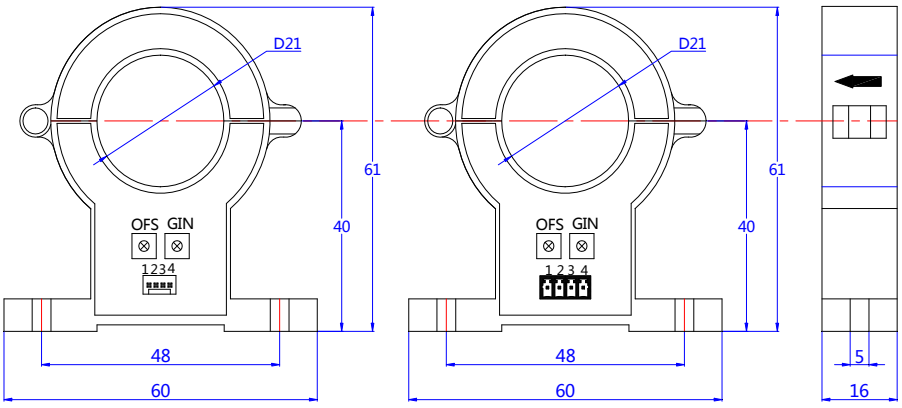
Response time tra(μs)	@90% of IPN	<5.0
Power consumption IC(mA)		15
Bandwidth Bw(KHZ)	@-3dB, IPN	DC-20
Insulation voltage Vd(KV)	@50/60Hz, 1min,AC	2.5

General data:

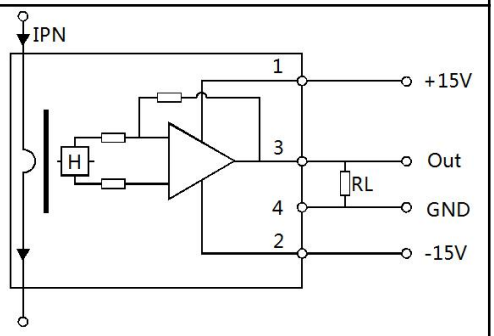
Parameter	Value
Operating temperature TA(°C)	-40 ~ +85
Storage temperature TS(°C)	-55~ +125
Mass M(g)	70
Plastic material	PBT G30/G15, UL94- V0;
Standards	IEC60950-1:2001
	EN50178:1998
	SJ20790-2000

Dimensions(mm):

CHK-EKA15D4M | CHK-EKA15D4S



Connection



General tolerance

General tolerance:< ±0.5mm

Primary through-hole： D21.0±0.15

Connection of Secondary :
CHK-EKA15D4M:
2510-04A (Instead of Molex 5045-04A)
CHK-EKA15D4S: 15EDGK3.81-04P

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.

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