



DATA SHEET

Hall Effect Current Sensor

PN: CHK_K15D4

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 ±12~15V
- Removable structure

Advantages

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

- Very good linearity
- Can be customized



RoHS



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

Parameter	Ref	CHK400 K15D4	CHK600 K15D4	CHK800 K15D4	CHK1000 K15D4	CHK1200 K15D4	CHK2000 K15D4
Rated input Ip(A)		400	600	800	1000	1200	2000
Measuring range Ip(A)		0~±800	0~±1200	0~±1600	0~±2000	0~±2400	0~±3000
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 er(%FS)				< 1.0			
Di/dt accurately followed (A/μs)				> 100			
Response time tra(μs)		@90% of IPN		<7.0			
Power consumption IC(mA)				15			
Bandwidth Bw(KHZ)		@-3dB, IPN		DC-20			
Insulation voltage Vd(KV)		@50/60Hz, 1min,AC		6.0			

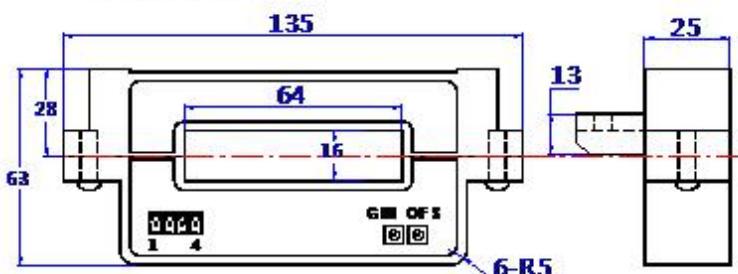


General data:

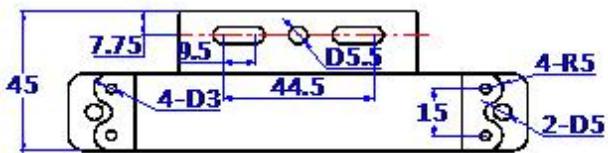
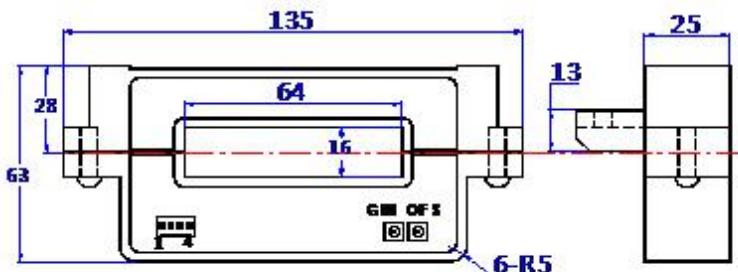
Parameter	Value
Operating temperature TA(°C)	-40 ~ +85
Storage temperature TS(°C)	-55~ +125
Mass M(g)	200
Plastic material	PBT G30/G15, UL94- V0; IEC60950-1:2001
Standards	EN50178:1998 SJ20790-2000

Dimensions(mm):

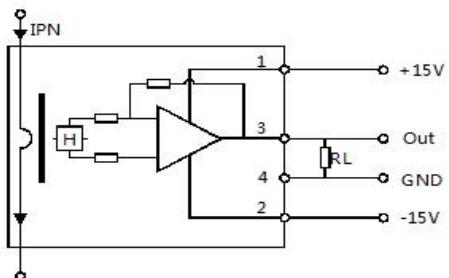
CHK-K15D4S



CHK-K15D4M



Connection



General tolerance

General tolerance:< ±0.5mm
Primary through-hole : 16*64±0.3
Connection of Secondary :
CHK-K15D4M:2510-04A
CHK-K15D4S:DG350-3.5-04P

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.

