



DATA SHEET

Hall Effect Current Sensor

PN: CHK_BS15D4

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 $\pm 12 \sim 15V$

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



RoHS



Electrical data: ($T_a=25^\circ C$, $V_c=\pm 15.0VDC$, $R_L=1.0K\Omega$)

Ref Parameter	CHK50 BS15D4	CHK100 BS15D4	CHK150 BS15D4	CHK200 BS15D4	CHK300 BS15D4	CHK400 BS15D4	CHK500 BS15D4	CHK600 BS15D4
Rated input I _p (A)	50	100	150	200	300	400	500	600
Measuring range I _p (A)	0~±150	0~±300	0~±450	0~±600	0~±900	0~±900	0~±900	0~±900
Output voltage V _o (V)	±4.0*(I _P /I _{PN})							
Load resistance R _L (KΩ)	>1.0							
Supply voltage V _C (V)	(±12~±15) ±5%							
Accuracy X _G (%)	@I _{PN} ,T=25°C			< ±1.0				
Offset voltage V _{OE} (mV)	@I _P =0,T=25°C			< ±25				
Temperature variation of V _{OE} V _{OT} (mV/°C)	@I _P =0,-40 ~ +85°C			< ±1.0				
Hysteresis offset voltage V _{OH} (mV)	@I _P =0,after 1*I _{PN}			< ±25				
Linearity error ε _r (%FS)	< 1.0							
Di/dt accurately followed (A/μs)	> 100							
Response time τ _{ra} (μs)	@90% of I _{PN}			< 3.0				
Power consumption I _C (mA)	15							



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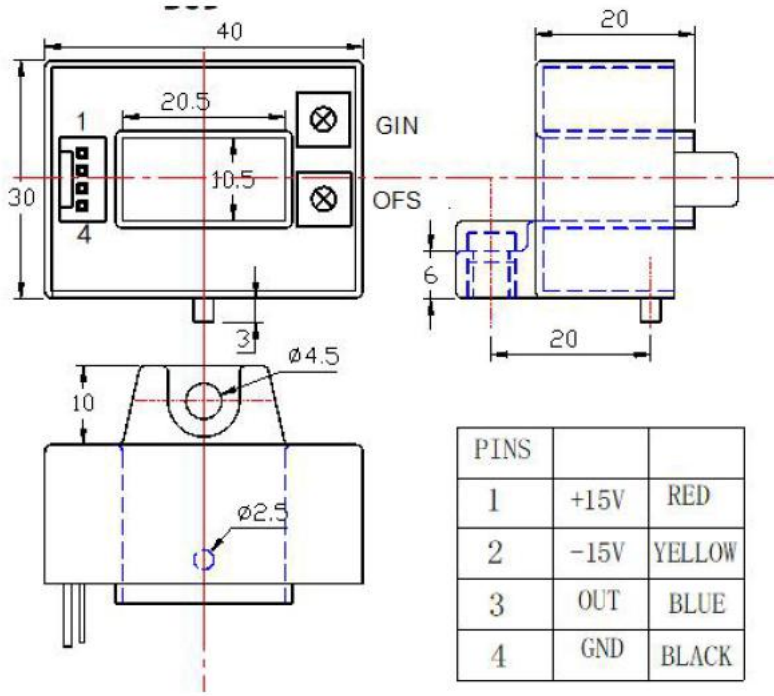
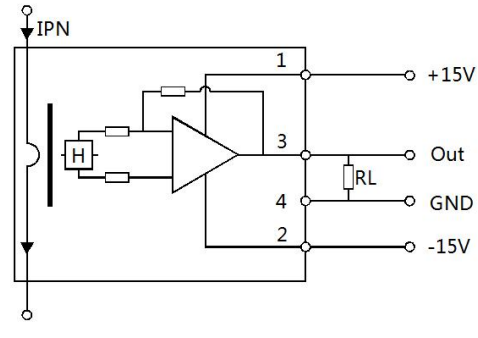
Add: N22, Xianlongwan, Xianyin South Road, Qixia District, Nanjing - China.

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)	65
Plastic material	PBT G30/G15, UL94- V0;
Standards	IEC60950-1:2001
	EN50178:1998
	SJ20790-2000

Dimensions(mm):

 <table border="1" data-bbox="550 1220 837 1467"> <thead> <tr> <th>PINS</th><th></th><th></th></tr> </thead> <tbody> <tr> <td>1</td><td>+15V</td><td>RED</td></tr> <tr> <td>2</td><td>-15V</td><td>YELLOW</td></tr> <tr> <td>3</td><td>OUT</td><td>BLUE</td></tr> <tr> <td>4</td><td>GND</td><td>BLACK</td></tr> </tbody> </table>		PINS			1	+15V	RED	2	-15V	YELLOW	3	OUT	BLUE	4	GND	BLACK	Connection  General tolerance General tolerance: < ±0.5mm Primary through-hole: 10.5*20.5±0.3 Connection of Secondary : CHK_BS15D4: 4pin 0.65*0.65mm
PINS																	
1	+15V	RED															
2	-15V	YELLOW															
3	OUT	BLUE															
4	GND	BLACK															

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 is fully filled with.
- The primary conductor should be <100°C.

WARNING : Incorrect wiring may cause damage to the sensor.

