



# DATA SHEET

## Hall Effect Current Sensor

PN: CHK\_LTADA24S4T

IPN=10-200A

### Feature

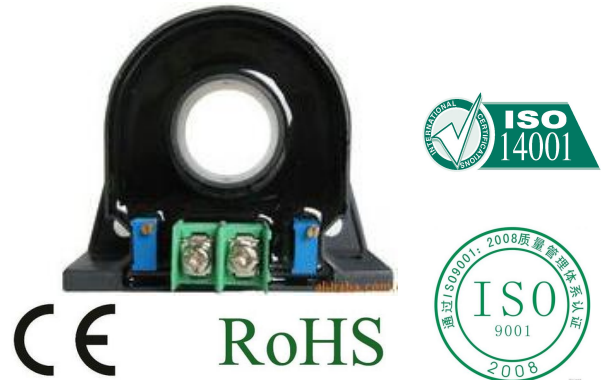
- Open- loop current transducer using the hall effect
- Capable measurement of currents: DC, AC,pulse with galvanic isolation between primary circuit and secondary circuit.
- Output signal can be directly acquisition-ed by the PLC or DSP terminal control system.
- Supply voltage: DC +12.0~32.0V

### Advantages

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

### Applications

- The application of variable frequency electrical appliances
- AC/DC variable-speed drive
- Uninterruptible Power Supplies (UPS)
- Switched Mode Power Supplies (SMPS)
- Inverter applications



### Electrical data: (Ta=25°C, Vc=+24.0VDC)

Parameter	Ref	CHK10LTA DA24S4T	CHK20LTA DA24S4T	CHK50LTA DA24S4T	CHK75LTA DA24S4T	CHK100LT ADA24S4T	CHK200LT ADA24S4T
Rated input Ipn(A)		10	20	50	75	100	200
Measuring range Ip(A)		0~+15	0~+30	0~+75	0~+115	0~+150	0~+300
Output current Io(mA)		4.0+16.0*(IP/IPN),DC					
Output current Io(mA)	@IP=0	4.0±0.1,DC					
Supply voltage Vc(V)		+12.0~+32.0 ±5%					
Load resistance RL(Ω)		VC=17V, 0~250	VC=22V,0~500	VC=27V,0~750	VC=32V, 0~1K		
Accuracy XG(%)	@IPN,T=25°C	< ±0.5					
Temperature variation of IOE IOT(mA/°C)	@IP=0,-40 ~ +85°C	< ±0.005					
Linearity error εr(%FS)		< 0.2					
Response time tra(ms)	@90% of IPN	<300					



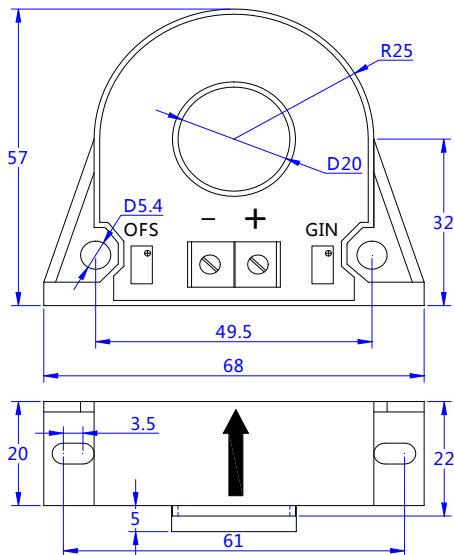
# Cheemi Technology Co., Ltd

Bandwidth Bw(KHZ)	@-3dB,IPN	20-2K
Insulation voltage Vd(KV)	@50/60Hz, 1min,AC	3.0

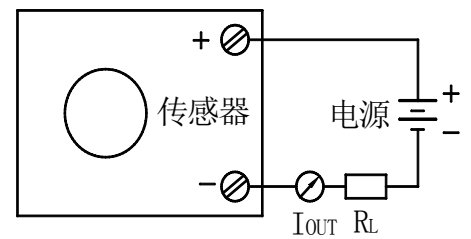
## General data:

Parameter	Value
Operating temperature TA(°C)	-40 ~ +85
Storage temperature TS(°C)	-55 ~ +125
Mass M(g)	95
Plastic material	PBT G30/G15, UL94- V0;
Standards	IEC60950-1:2001
	EN50178:1998
	SJ20790-2000

## Dimensions(mm):



### Connection



### General tolerance

General tolerance:  $< \pm 0.5\text{mm}$   
 Primary through-hole :  $D20.0 \pm 0.3$

## 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  $< 100^\circ\text{C}$ .

**WARNING : Incorrect wiring may cause damage to the sensor.**



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