

Hall split core current sensor



Model: HSTS08L

Circular hole, suspended mounting, lead wire output;
 The faulty connection can lead to product damage, detection DC, AC, pulse current;
 The primary detection current are linearly related to output, and the output signal can be directly entered into the automatic control equipment or PLC port



Technical index:

Flame resistance: UL94-V0
 Working temperature: $-25^{\circ}\text{C} \sim +70^{\circ}\text{C}$
 Storage temperature: $-25^{\circ}\text{C} \sim +70^{\circ}\text{C}$
 Dielectric strength: 2.5KV 50Hz 1min

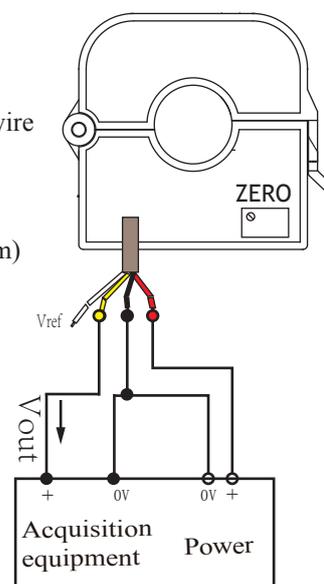
Electrical parameters:

I_{PN}	Rated input	± 5	± 10	± 15	± 20	A
I_{PM}	Input measured range	± 6	± 12	± 18	± 20	A
V_{out}	Rated output	2.5 ± 0.625		V		
		2.5 ± 2		V		
X	Accuracy	1		%		
ϵ_L	Linearity	0.2		%		
V_C	Supply voltage($\pm 5\%$)	+5		V		
I_C	Current consumption	≤ 12		mA + I_s		
R_L	Load impedance	$\geq 10K$		Ω		
I_{OE}	Zero offset TA=25°C	$\leq \pm 15$		mV		
T_R	Response time	≤ 1		μs		
T_s	Band width	DC				
N.W	Weight	22		g		

Connection diagram:

Cable specification:
 0.1mm four-core shielding wire
 Four core colors:
 red, black, yellow and white
 Cable length: 50cm(50cm~55cm)

Red: +5V
 Black: 0V
 Yellow: V_{out}
 White: V_{ref} (If no need V_{ref} , please don't connect it)

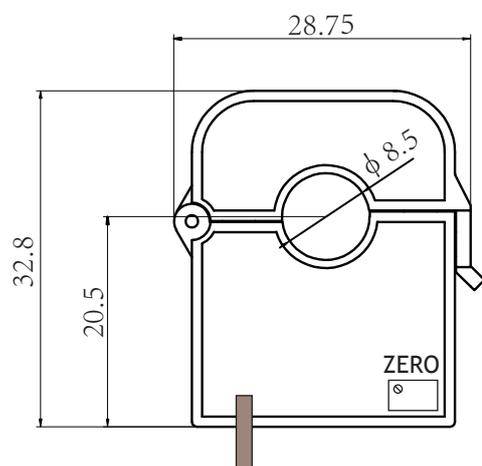


Calculation formula: $2.5V \pm 0.625V$ (or $\pm 2V$)

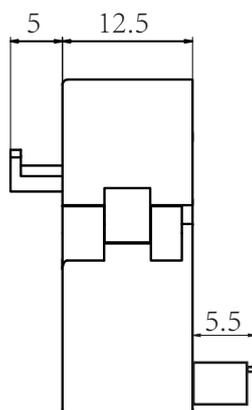
Forward: $2.5V + (\text{measured current}/I_{pn}) * 0.625V$ (or $\pm 2V$)

Reverse: $2.5V - (\text{measured current}/I_{pn}) * 0.625V$ (or $\pm 2V$)

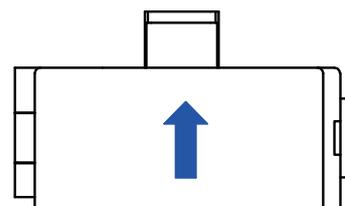
Dimensions (in mm ± 0.5) :



Front view



Side view



Top view