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℃～+70℃
Storage temperature: -25℃～+70℃
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
Vout	Rated output	2.5±0.625				V
I_{PN}	Rated input	±15		±20		A
I_{PM}	Input measured range	±15		±20		A
Vout	Rated output	2.5±2				V
X	Accuracy	1				%
ε_L	Linearity	0.2				%
V_C	Supply voltage(±5%)	+5				V
I_C	Current consumption	≤12				mA+Is
R_L	Load impedance	≥10K				Ω
I_{OE}	Zero offset TA=25℃	≤±15				mV
T_R	Response time	≤1				μs
Ts	Band width	DC				
N.W	Weight	22				g

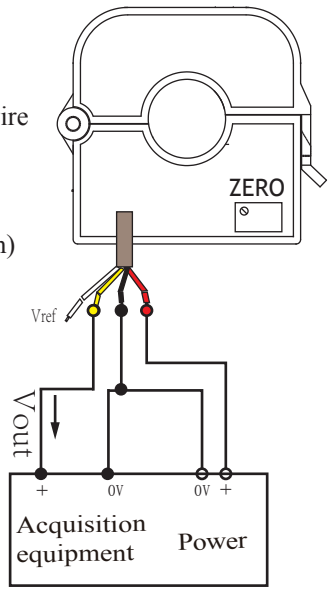
Connection diagram:

Cable specification:
0.1mm² four-core shielding wire

Four core colors:
red, black, yellow and white

Cable length: 50cm(50cm~55cm)

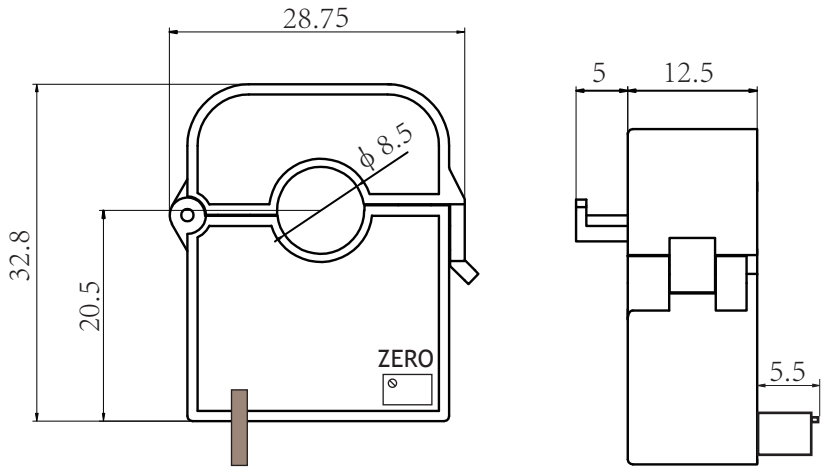
Red: +5V
Black: 0V
Yellow: Vout
White: Vref (If no need Vref, please don't connect it)



Calculation formula: 2.5V ± 0.625V (or ± 2V)

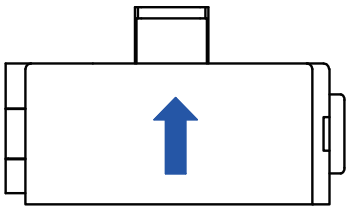
Forward: 2.5V + (measured current/Ipn) * 0.625V (or ±2V)
Reverse: 2.5V - (measured current/Ipn) * 0.625V (or ±2V)

Dimensions (in mm±0.5):



Front view

Side view



Top view