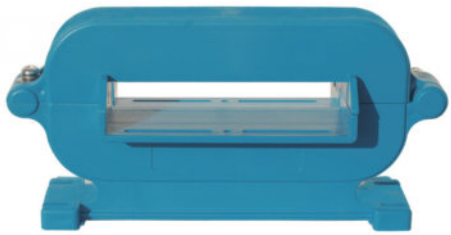
HSTS12020

Characteristics:

1.Open loop split core type,terminal output.
2.Detect DC,AC and pulse current,high insulation
3.Between primary side and the vice side circuit.

Product picture print for reference only, subject to the actual product



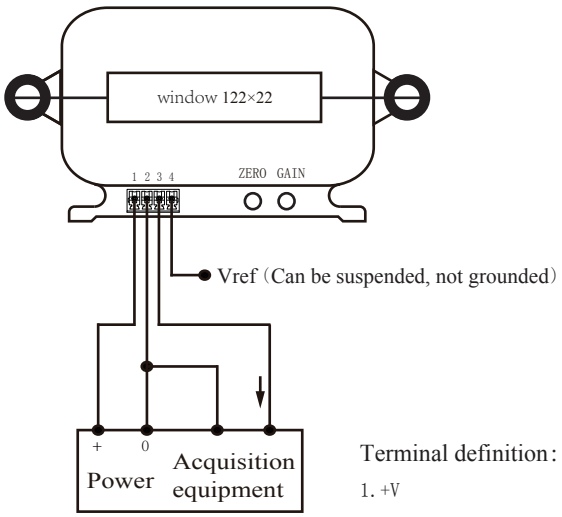
Technical index:

1.Flame resistance： UL94-V0
2.Operation temperature： -10℃～+70℃
3.Storage temperature: -25 ° C to +70 ° C
4.Dielectric strength： 6KV 50Hz 1min

Electrical parameters:The following parameters are typical values. The actual values shall be subject to the actual measurement of the product

I_{Pn}	Rated input	±1000A	±2000A	±3000A	±4000A
I_{PM}	Input measurement range	±1200A	±2400A	±3600A	±4800A
V_{OUT}	Rated output	2.5V±0.625V			
I_{Pn}	Rated input	±3000A		±4000A	
I_{PM}	Input measurement range	±3000A		±4000A	
V_{OUT}	Rated output	2.5V±2V			
X	Accuracy	1%			
ε_L	Linearity	1%			
V_C	Supply voltage(±5%)	+5V			
I_C	Current consumption	≤16mA			
R_L	Load impedance	≥10KΩ			
V_{OE}	Zero offset voltage	≤±15mV			
f	Band width	-			
Tr	Response time	≤5μs			
N.W	Weight	g			

Schematic diagram：



Terminal definition：
1. +V
2. 0V
3. Vout
4. Vref

※Detection：
①Choose the auxiliary power supply with small ripple (≤10mV)
②Switch on auxiliary power
③The auxiliary power is connected to the sensor
④The sensor detects the primary current

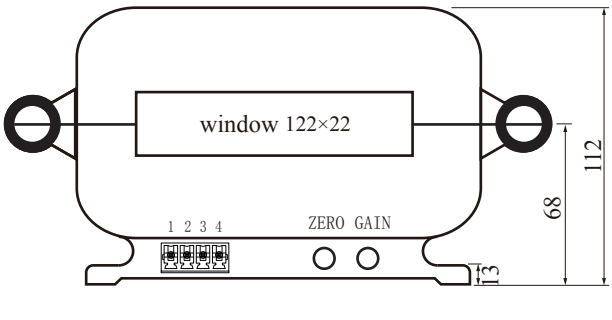
Factory commissioning ：

1. Debug with 0V as the reference point(acquiescence)
2. Debug with Vref as the reference point(optional)

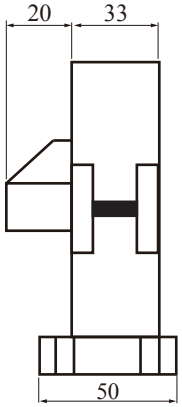
Calculation formula： 2.5V±0.625V(or 2.5V±2V)

Forward direction： $2.5+(I/I_{PN})*0.625$ (or ±2)
Reverse direction： $2.5-(I/I_{PN})*0.625$ (or ±2)

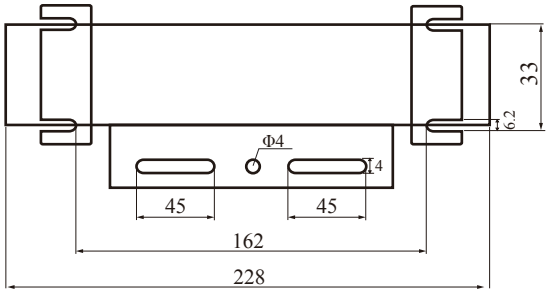
Dimensions（in mm±0.5）



Front view



Side view



Bottom view