



CS200YT5 Hall-effect Current Sensor Series

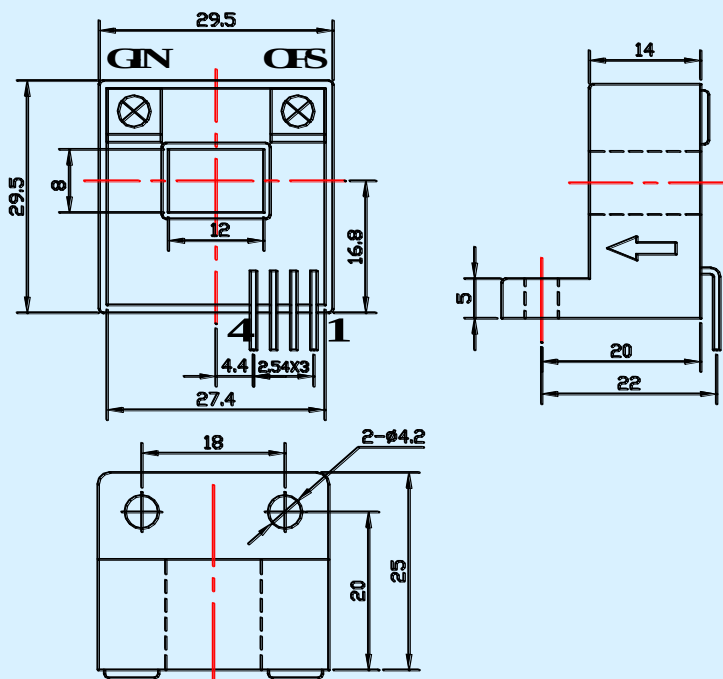


Open loop current sensor based on the principle of Hall-effect. It can be used for measuring AC,DC,pulsed and mixed current.

Electrical characteristics

	Type	CS050YT5	CS100YT5	CS150YT5	CS200YT5	
I _{PN}	Primary nominal input current	50	100	150	200	A
I _P	Measuring range of primary current	0~±100	0~±200	0~±300	0~±400	A
V _{OUT}	Nominal output voltage	1±1%				V
V _C	Supply voltage	+5(±5%)				V
I _C	Current consumption	<20				mA
V _D	Insulation voltage	AC/50Hz/1min	2.5			kV
ε _L	Linearity	<1				%FS
V _O	Offset voltage	T _A =25℃	2.5 ±1%			V
V _{OM}	Residual voltage	I _{PN} →0	< ±20			mV
V _{OT}	Thermal drift of V ₀	I _P =0 T _A =-25~+70℃	< ±0.5			mV/℃
T _R	Response time	≤3				μs
f	Frequency bandwidth(-3dB)	DC~20				kHz
T _A	Ambient operating temperature	-25~+85				℃
T _S	Ambient storage temperature	-40~+100				℃
R _L	Load resistance	≥10				KΩ
	Standard	Q/320115QHJ01-2010				

Dimensions of drawing (mm)



Elucidation: 1: +5V 2: 0V(GND) 3: V_{OUT} 4: ref (2.5V) OFS: Zero adjustment GIN: Gain adjustment

Remarks

Incorrect connection may lead to the damage of the sensor.

V_{OUT} is positive when the I_P flows in the direction of the arrow.