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CS600B Hall-effect Current Sensor Series

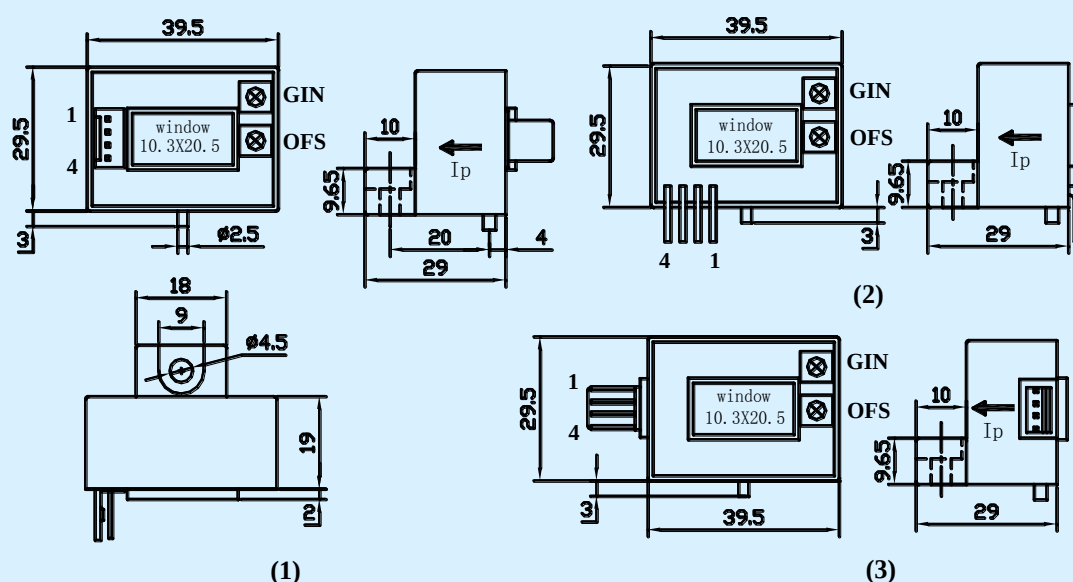
Open loop current sensor based on the principle of Hall-effect. It can be used for measuring AC,DC,pulsed and mixed current.



Electrical characteristics

	Type	CS100B	CS200B	CS300B	CS400B	CS500B	CS600B	
I _{PN}	Primary nominal input current	100	200	300	400	500	600	A
I _P	Measuring range of primary current	0~±300	0~±600	0~±900	0~±900	0~±900	0~±900	A
V _{OUT}	Nominal output voltage	4±1%						V
V _C	Supply voltage	±15(±5%)						V
I _C	Current consumption	V _C =±15V		<20				mA
V _D	Insulation voltage	AC/50Hz/1min			2.5			kV
ε _L	Linearity	<1						%FS
V _O	Offset voltage	T _A =25℃		<±25				mV
V _{OM}	Residual voltage	I _{PN} →0		<±20				mV
V _{OT}	Thermal drift of V ₀	I _P =0 T _A =-25~+85℃			<±1			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/3201CHGL02-2007						

Dimensions of drawing (mm)



Elucidation: 1: +15V 2: -15V 3: V_{OUT} 4: 0V(GND) 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.