



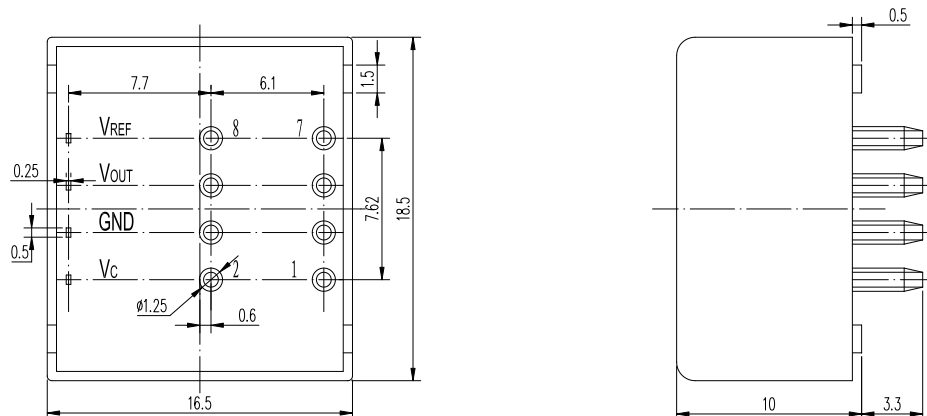
HBC20XS5 Series Hall Effect Current Sensor

The multi-range HBC20XS5 series current sensor is a closed loop device based on the principle of the Hall Effect and null balance method. The output from the current sensor is the balancing current which is a perfect image of the primary current reduced by the number of secondary turns at any time. This current can be expressed as a voltage by passing it through a resistor. It provides accurate electronic measurement of DC, AC or pulsed currents.

ELECTRICAL DATA

Type	HBC20XS5	
Rated Current	20	A
Measure Range	60	A
Turn Ratio	1600	T
Sampling Resistance	50±0.1%	Ω
Rated Output	0.625±0.5%	V
Supply Voltage	+5 ±5%	V
Offset Voltage	2.5±0.5%	V
Offset Voltage Drift	≤±0.5	mV/°C
Linearity	≤0.2	%FS
Total Accuracy	±0.7	%
di/dt	>50	A/us
Band Width(-3db)	DC~200	KHz
Response Time	<500	ns
Galvanic Isolation	2.5	KV
Operating Temperature	-40~+85	°C
Storage Temperature	-40~+85	°C

MUTING DIMENSIONS(FOR REFERENCE ONLY)



INSTRUCTIONS FOR USE

1. When the current will be measured goes through a sensor, the voltage will be measured at the output end. (Note: The false wiring may result in the damage of the sensor).
2. Custom design in the nominal input current and the output voltage available.