SHAANXI SHINHOM ENTERPRISE CO.,LTD

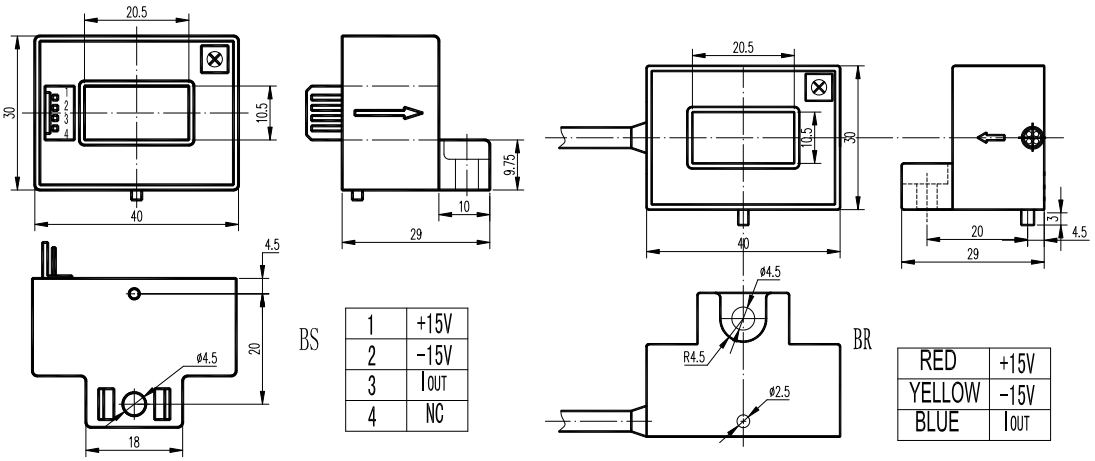
HBC-B Series Hall Effect Current Sensor

The HBC-B 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 resister. It provides accurate electronic measurement of DC, AC or pulsed currents.

ELECTRICAL DATA

	HBC50BS/BR	HBC100BS/BR	HBC200BS/BR	HBC300BS/BR	
Rated Current	50	100	200	300	A
Measure Range	75(±18V,91Ω)	150(±18V,30Ω)	300(±18V,30Ω)	450(±18V,20Ω)	A
Turn	1：1000	1：1000	1：2000	1：3000	
Output current	50	100	100	100	mA
coil resister	20	20	25	35	Ω
Measuring resistance		10～50			Ω
Offset current		＜0.15			mA
Supply voltage		±12 ～±18			V
zero point drift	-25～+85℃	±0.05～±0.3			mA
	-40～-25℃	±0.1～±0.5			mA
Linearity		±0.1			%FS
Band width	-1db	0～150			KHZ
Response time		≤1			μS
Galvanic isolation	50HZ,1min	3.0			KV
Operating temperature		-40～+85			℃
Storage temperature		-40～+90			℃

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. The output amplitude of the sensor can be adjusted according to users' requirements.

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