



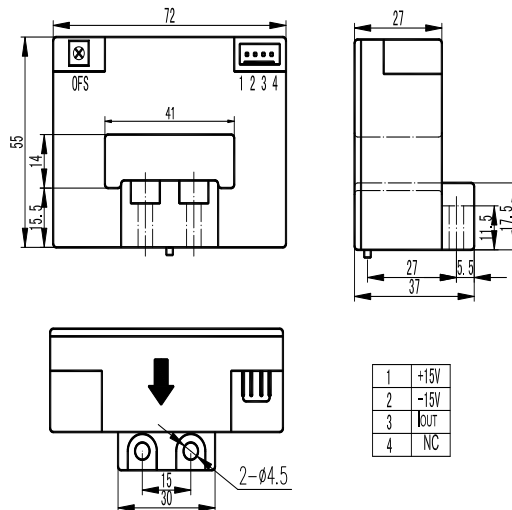
HBC-F Series Hall Effect Current Sensor

The HBC-F 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

	HBC-200F	HBC-300F	HBC-400F	HBC-500F	
Rated current	200	300	400	500	A
Measure range	800(±24V,30Ω)	1200 (±24V,25Ω)	1600(±24V,20Ω)	2000(±24V,15Ω)	A
Turn	1: 2000	1: 3000	1: 4000	1: 5000	
Rated output	100	100	100	100	mA
Secondary coil resister	25	30	35	42	Ω
Measuring resistance				10~80	Ω
Offset current				<0.2	mA
Supply voltage				±15~±24	V
Offset drift	-40~+85°C			±0.6	mA
Linearity				±0.1	%FS
Band width	-1db			0~150	KHZ
Response time				≤1	μS
Galvanic isolation	50Hz,1min			6.0	KV
Operating temperature				-40~+85	°C
Storage temperature				-40~+125	°C

MUTING DIMENSIONS(FOR REFERENCE ONLY)



DIRECTIONS FOR USE

1. When the current will be measured goes through a sensor, the current 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.