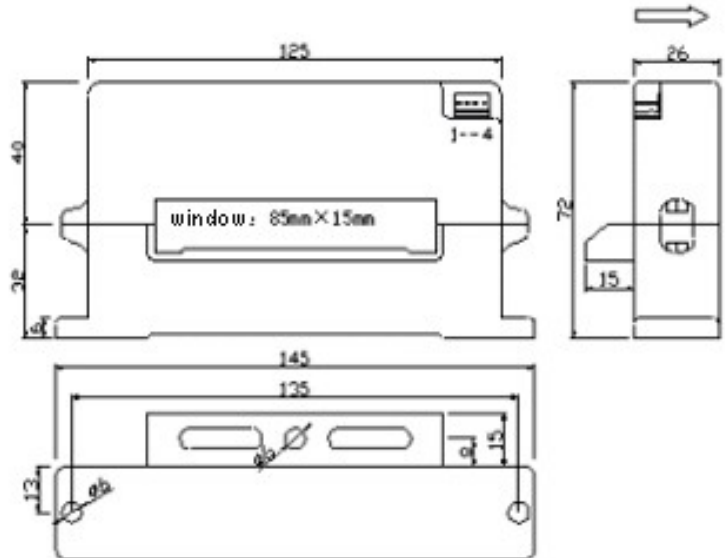


DESCRIPTION

The Hall effect current sensor provides strong electrical isolation between the output of the sensor and the current carrying conductor. The output of the sensor reflects the real wave shape of DC, AC and pulsed currents of the primary circuit.

**Connections**

1. (+) +15V Power Supply
2. (-) -15V Power Supply
3. (M) Output Signal
4. (G) 0V Common

General Specifications

Input Current:	+/- 2800Adc depending on range ordered.
Primary Input Window	85mm x 15mm
Measurement Output:	+/- 5Vdc
Response time T_{90} :	10 μ S
Accuracy	1%
Linearity error:	< 0.4%
Offset voltage	\pm 20mV
Hysteresis error	\pm 10mV
Output impedance:	100 Ω
Minimum output load:	8k2 Ω
recommended output load:	\geq 15k Ω
Zero adjustment:	\pm 2%
Span adjustment:	\pm 20%
Temperature drift	\leq 500ppm/ $^{\circ}$ C
Current consumption	\leq 25mA
Power Supply:	\pm 15Vdc \pm 5% regulated
Isolation	3 kVrms / 50Hz / min
Overload:	16000A
Operating temperature range	-10 $^{\circ}$ C~+80 $^{\circ}$ C
Storage temperature range	-25 $^{\circ}$ C~85 $^{\circ}$ C
Fire redundancy	UL94-V0

Ordering Information

HCT025-1000 = 1000A input
HCT025-2000 = 2000A input
HCT025-2800 = 2800A input

Application

The HCT025 is designed for use with the DCT247. The DCT247 is a din mounted signal conditioning module for monitoring of DC and true RMS AC currents and provides a standard process signal output or relay contact.

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