



HCT-800F

RoHS
2002/95/EC

Technical Specification

HALL EFFECT CURRENT TRANSDUCER OPEN LOOP
HCT 800A/4V.
HCT-800F

Edition	Changed by	Date	Change description
1 st	V.Repecho	08/03/10	First edition

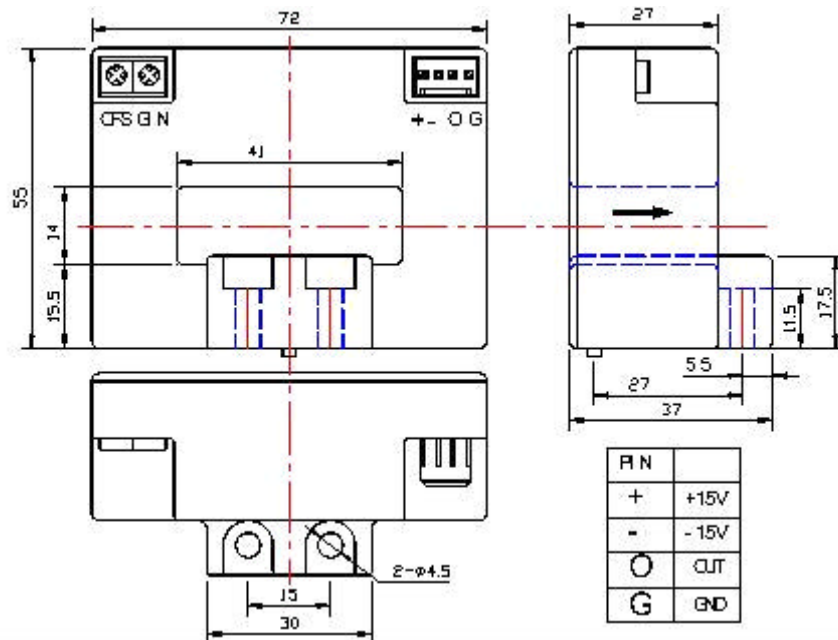


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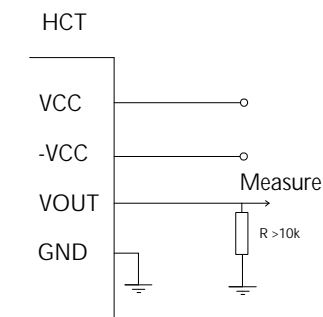
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1. Dimensions

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Connection recommended



Notes.

- General Tolerance ± 0.5 mm

- All dimensions and mechanical fixations are subjected to change depending on the customer necessities and PREMO Transducer Development.



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2. Electrical Parameters

Primary Nominal Current	800 A RMS	I_{pn}
Measuring Range	± 1600 A DC	I_p
Secondary Nominal Voltage	4 V $\pm 1\%$ RMS	V_s
Supply Voltage ($\pm 5\%$)	± 15 V $\pm 5\%$	V_{cc}
Current Consumption	12 mA ($V_{cc} = \pm 15$ V)	I_{cc}

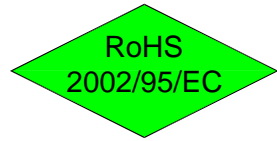
3. Accuracy

Accuracy at I_p $T = 25$ °C	$< \pm 1\%$	a
Linear Error (Full Scale) $V_{cc} = \pm 24$ V, $R_b = 3$ Ohm	$< 1\%$	e_{LLR}
Offset Voltage	15mV Max	V_{OS}
Offset Voltage Drift	$< \pm 0.5$ mV/°C	KI_{OS}
Magnetic Offset Voltage	± 30 mV	M_{OS}
Time Response (10% to 90% of I_p) Related to di/dt Specified	< 5 us	T_R

- * Electrical Parameters and frequency response to be checked with samples.



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4. Output Connector

Connection	MOLEX 5045-A04-A	
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5. General Data

Operating Temperature	-40 to +85 °C	T_A
Storage Temperature	-55 to +125 °C	T_S
Weight	230 g	
Basic Insulation (Between Primary and Measurement Current)	5000 V AC 50Hz 1'	V_I

6. Standards

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7. Packaging

- Single Packaging.

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