

	CUSTOMER	CUSTOMER CODE	PART DESCRIPTION HALL EFFECT CURRENT TRANSDUCER OPEN LOOP HCT 800A/4V		
	INTERNAL CODE HCT-F	DATE 23/08/10	EDITION 1	DOCUMENT NAME HCT-F_1.doc	PAGE 1/9

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

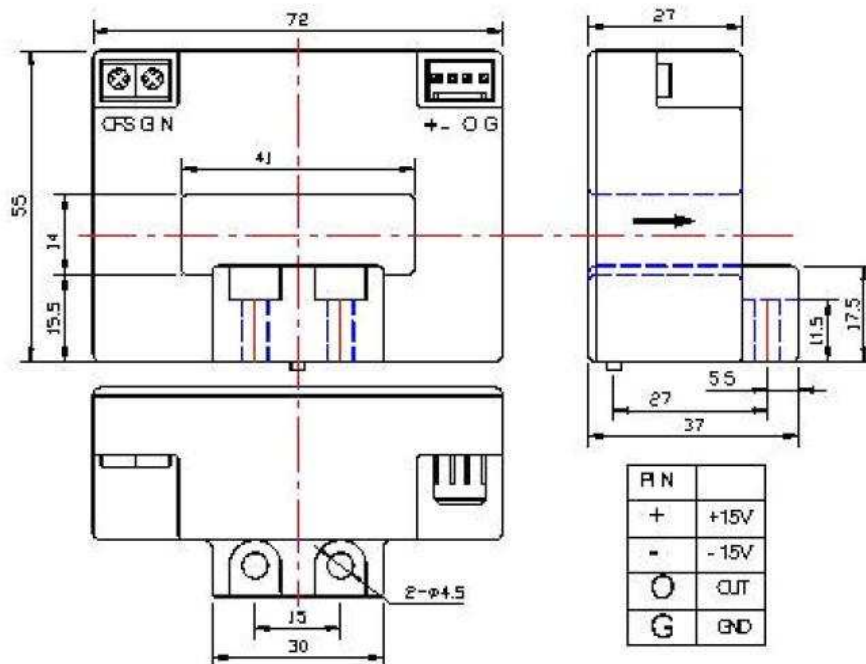
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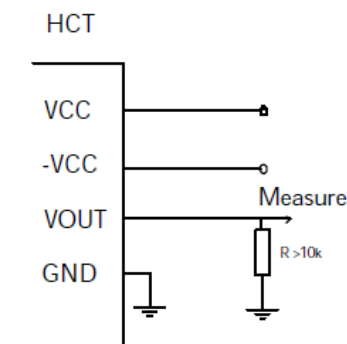
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## 1.- DIMENSIONS AND PINS CONFIGURATION

### HCT-800F



### CONNECTION RECOMMENDED



All dimensions are in mm.

General Tolerance  $\pm 0.5$  mm

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

#### NOTES

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## 2.- ELECTRICAL PARAMETERS

Primary Nominal Current	800 A RMS	I <sub>pn</sub>
Measuring Range	± 1600 A DC	I <sub>p</sub>
Secondary Nominal Voltage	4 V ±1% RMS	V <sub>s</sub>
Supply Voltage (± 5 %)	± 15 V ±5%	V <sub>cc</sub>
Current Consumption	12 mA (V <sub>cc</sub> = ± 15 V)	I <sub>cc</sub>

## 3.- ACCURACY

Accuracy at I <sub>p</sub> T = 25 °C	< +1 %	a
Linear Error ( Full Scale) V <sub>cc</sub> = ±24V, R <sub>b</sub> =3 Ohm	< 1 %	e <sub>LLR</sub>
Offset Voltage	15mV Max	V <sub>os</sub>
Offset Voltage Drift	± 0.5 mV/°C	KV <sub>os</sub>
Magnetic Offset Voltage	±30 mV	M <sub>os</sub>
Time Response ( 10% to 90% of I <sub>p</sub> ) Related to di/dt Speciflicated	< 5us	T <sub>R</sub>

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

## 4.- OUTPUT CONNECTOR

Connection	MOLEX 5045-A04-A
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## 5.- GENERAL DATA

Operating Temperature	-40 to +85 °C	T <sub>A</sub>
Storage Temperature	-55 to +125 °C	T <sub>S</sub>
Weight	230 g	
Basic Insulation (Between Primary and Measurement Current)	5000 V AC 50Hz 1'	V <sub>i</sub>

## 6.- EDITION CONTROL

Edition	Date	Change description	Made by
1st	23/08/10	First Edition	Marta Escolar

## NOTES

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**HALL EFFECT CURRENT TRANSDUCER OPEN  
 LOOP HCT 500A/4V.  
 HCT-500F**

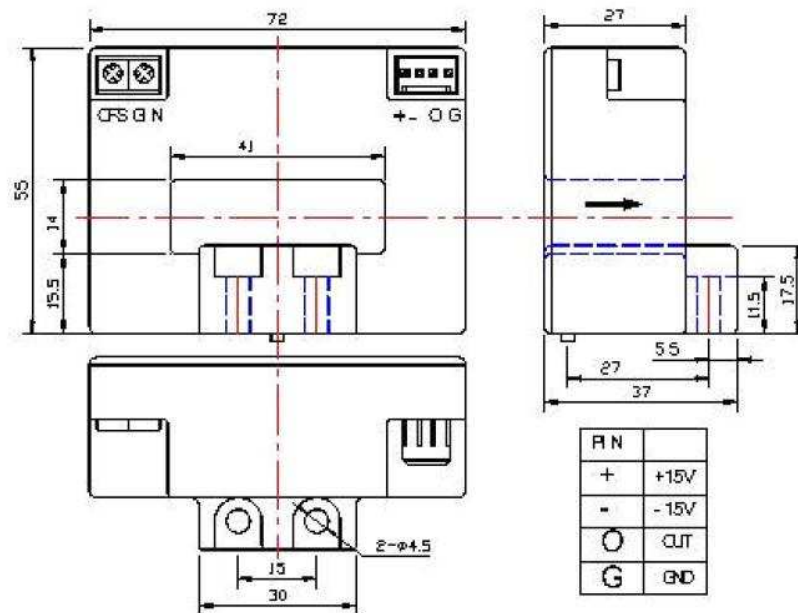
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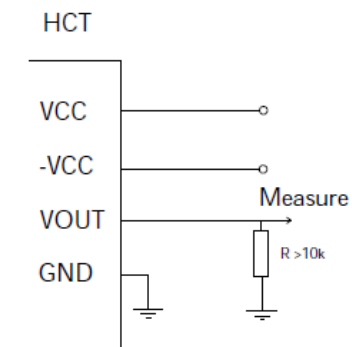
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## 1.- DIMENSIONS AND PINS CONFIGURATION

### HCT-500F



### CONNECTION RECOMMENDED



All dimensions are in mm.

General Tolerance  $\pm 0.5$  mm

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## 2.- ELECTRICAL PARAMETERS

Primary Nominal Current	500 A RMS	$I_{pn}$
Measuring Range	$\pm 1200$ A DC	$I_p$
Secondary Nominal Voltage	4 V $\pm 1\%$ RMS	$V_s$
Supply Voltage ( $\pm 5\%$ )	$\pm 15$ 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	$< +1\%$	$a$
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	$KV_{os}$
Magnetic Offset Voltage	$\pm 30$ mV	$M_{os}$
Time Response ( 10% to 90% of $I_p$ ) Related to $di/dt$ Speciflicated	$< 3$ us	$T_R$

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

## 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.- EDITION CONTROL

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1st	23/08/10	First Edition	Marta Escolar

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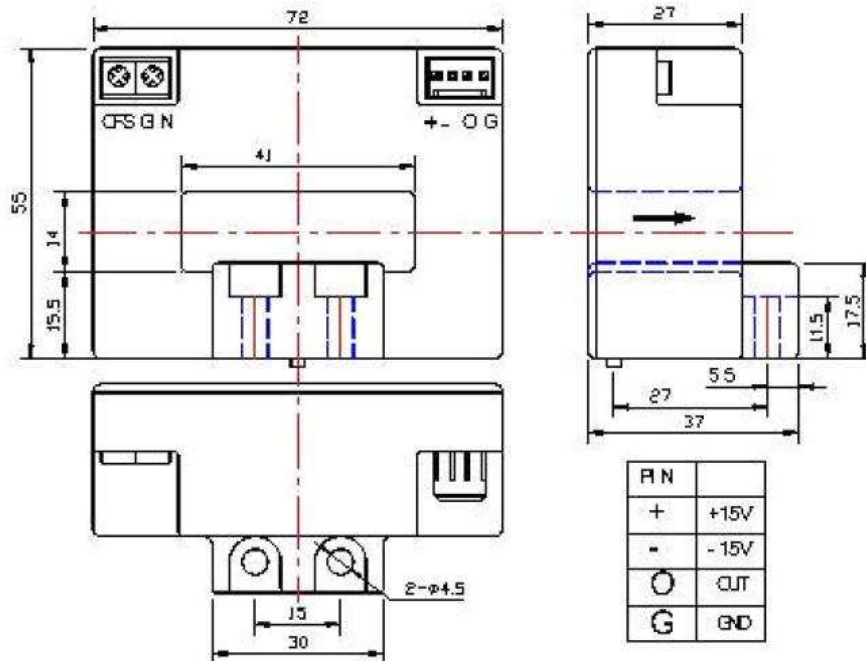
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# HALL EFFECT CURRENT TRANSDUCER OPEN LOOP HCT 1000A/4V. HCT-1000F

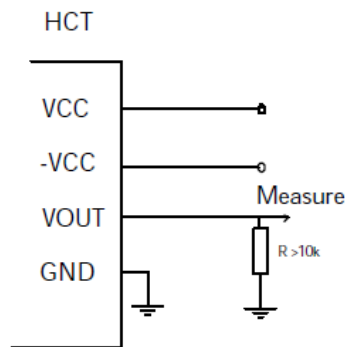
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## 1.- DIMENSIONS AND PINS CONFIGURATION



## CONNECTION RECOMMENDED



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## 2.- ELECTRICAL PARAMETERS

Primary Nominal Current	1000 A RMS	I <sub>pn</sub>
Measuring Range	± 2000 A DC	I <sub>p</sub>
Secondary Nominal Voltage	4 V ±1% RMS	V <sub>s</sub>
Supply Voltage (± 5 %)	± 15 V ±5%	V <sub>cc</sub>
Current Consumption	12 mA (V <sub>cc</sub> = ± 15 V)	I <sub>cc</sub>

## 3.- ACCURACY

Accuracy at I <sub>p</sub> T = 25 °C	< +1 %	a
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Magnetic Offset Voltage	±30 mV	M <sub>os</sub>
Time Response ( 10% to 90% of I <sub>p</sub> ) Related to di/dt Speciflicated	< 5us	T <sub>R</sub>

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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 <sub>A</sub>
Storage Temperature	-55 to +125 °C	T <sub>s</sub>
Weight	230 g	
Basic Insulation (Between Primary and Measurement Current)	5000 V AC 50Hz 1'	V <sub>i</sub>

## 6.- EDITION CONTROL

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