

	CUSTOMER	CUSTOMER CODE	PART DESCRIPTION HALL EFFECT CURRENT TRANSDUCER CLOSED LOOP HCT 50A (V. Output)		
	INTERNAL CODE HCT-BP5	DATE 23/08/10	EDITION 1	DOCUMENT NAME HCT-BP5_1.doc	PAGE 1/8

HALL EFFECT CURRENT TRANSDUCER OPEN LOOP 50A (V. Output) HCT-50BP5

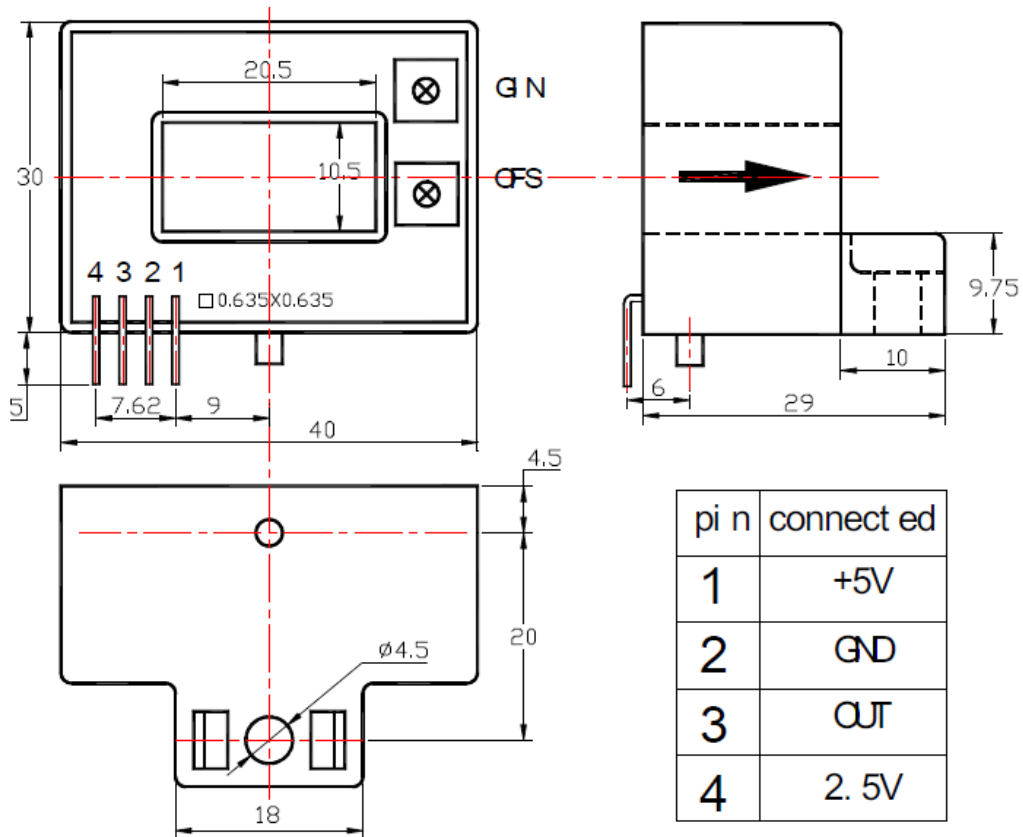
NOTES



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1.- DIMENSIONS AND PINS CONFIGURATION

HCT-50BP5



All dimensions are in mm.

General Tolerance ± 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	50 A RMS	I_{pn}
Measuring Range	± 100 A DC	I_p
Secondary Nominal Voltage at $I_p = 0$	$2.5 \pm 0.5\%$ (Full Scale)	V_o
Rated Output at I_p	$3.5 \pm 0.5\%$ (Full Scale) at I_{pn} $1.5 \pm 0.5\%$ (Full Scale) at $-I_{pn}$	
Supply Voltage ($\pm 5\%$)	$+5 \pm 5\%$ V	V_{cc}
Current Consumption	<40 mA	I_{cc}

3.- ACCURACY

Accuracy at I_p $T = 25\text{ }^\circ\text{C}$	$< \pm 0.5\%$	a
Linear Error (Full Scale) $V_{cc} = +5V$	$< 1\%$	e_{LLR}
Offset Voltage	$< \pm 15$ mV	V_{os}
Offset Voltage Drift	± 0.6 mV/ $^\circ\text{C}$	KV_{os}
Time Response (10% to 90% of I_p) Related to di/dt Specified	< 3 us	T_R
Frequency Bandwidth	DC to 20kHz (-3dB)	F_c

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

4.- OUTPUT CONNECTOR

Connection	PTH	
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5.- GENERAL DATA

Operating Temperature	-40 to +85 $^\circ\text{C}$	T_A
Storage Temperature	-55 to +125 $^\circ\text{C}$	T_s
Weight	65 g	
Basic Insulation (Between Primary and Measurement Current)	3000 V AC 50Hz 1'	V_i

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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 100A (V. Output) HCT-100BP5

NOTES

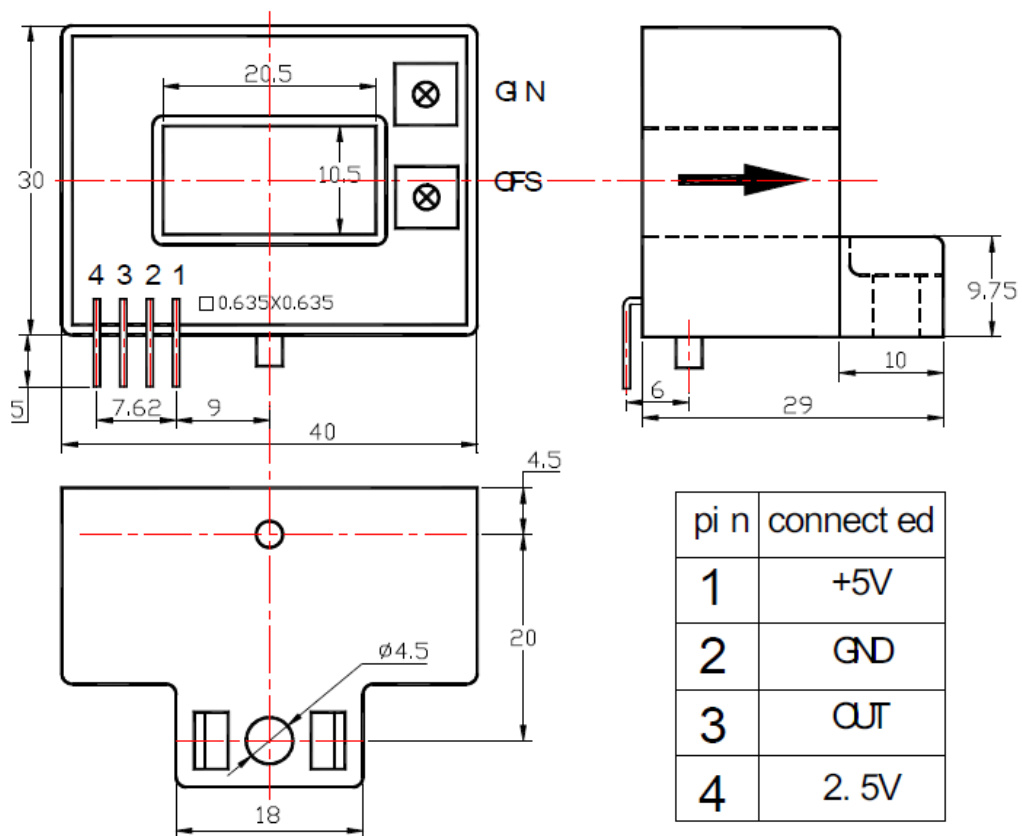


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1.- DIMENSIONS AND PINS CONFIGURATION

HCT-100BP5



All dimensions are in mm.

General Tolerance ± 0.5 mm.

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2.- ELECTRICAL PARAMETERS

Primary Nominal Current	100 A RMS	I_{pn}
Measuring Range	± 200 A DC	I_p
Secondary Nominal Voltage at $I_p = 0$	$2.5 \pm 0.5\%$ (Full Scale)	V_o
Rated Output at I_p	$3.5 \pm 0.5\%$ (Full Scale) at I_{pn} $1.5 \pm 0.5\%$ (Full Scale) at $-I_{pn}$	
Supply Voltage ($\pm 5\%$)	$+5 \pm 5\%$ V	V_{cc}
Current Consumption	<40 mA	I_{cc}

3.- ACCURACY

Accuracy at I_p $T = 25\text{ }^\circ\text{C}$	$< \pm 0.5\%$	a
Linear Error (Full Scale) $V_{cc} = +5V$	$< 1\%$	e_{LLR}
Offset Voltage	$< \pm 15$ mV	V_{os}
Offset Voltage Drift	± 0.6 mV/ $^\circ\text{C}$	KV_{os}
Time Response (10% to 90% of I_p) Related to di/dt Specified	< 3 us	T_R
Frequency Bandwidth	DC to 20kHz (-3dB)	F_c

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

4.- OUTPUT CONNECTOR

Connection	PTH	
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5.- GENERAL DATA

Operating Temperature	-40 to +85 $^\circ\text{C}$	T_A
Storage Temperature	-55 to +125 $^\circ\text{C}$	T_s
Weight	65 g	
Basic Insulation (Between Primary and Measurement Current)	3000 V AC 50Hz 1'	V_i

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