

	CUSTOMER	CUSTOMER CODE	PART DESCRIPTION HALL EFFECT CURRENT TRANSDUCER CLOSED LOOP HCT 30A 1:1500 (V. Output)		
	INTERNAL CODE HCT-PX5	DATE 05/11/10	EDITION 2	DOCUMENT NAME HCT-PX5_2.doc	PAGE 1/6

**HALL EFFECT CURRENT TRANSDUCER CLOSED
 LOOP 30A 1:1500 (V. Output)
 HCT-30PX5**

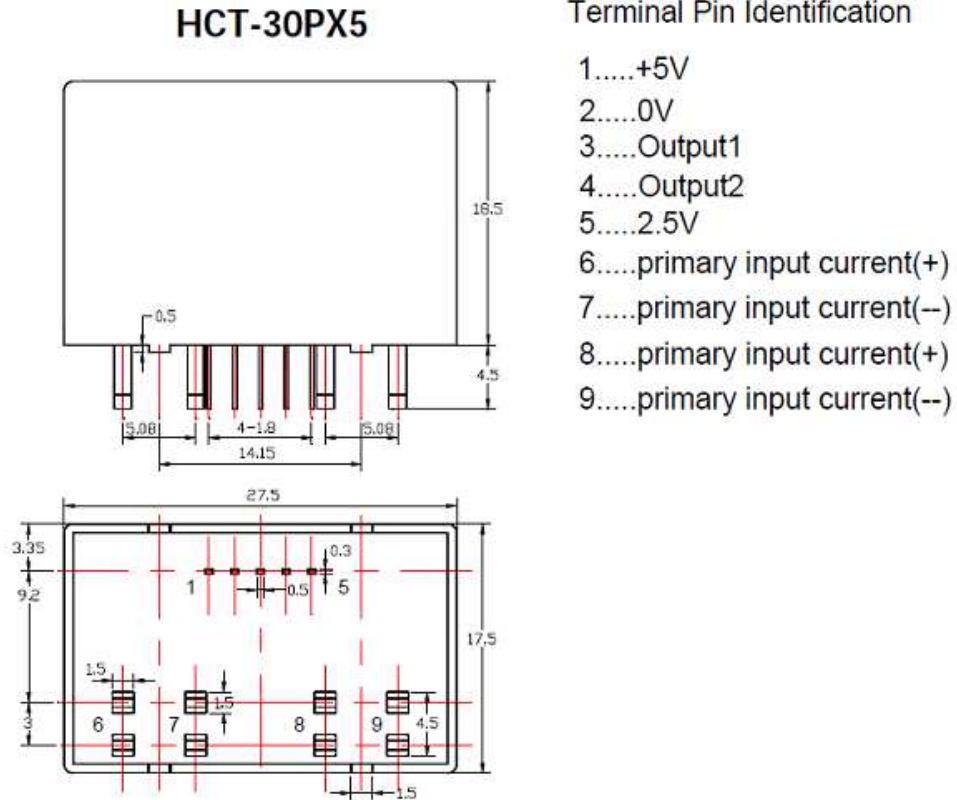
NOTES



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1.- DIMENSIONS AND PINS CONFIGURATION



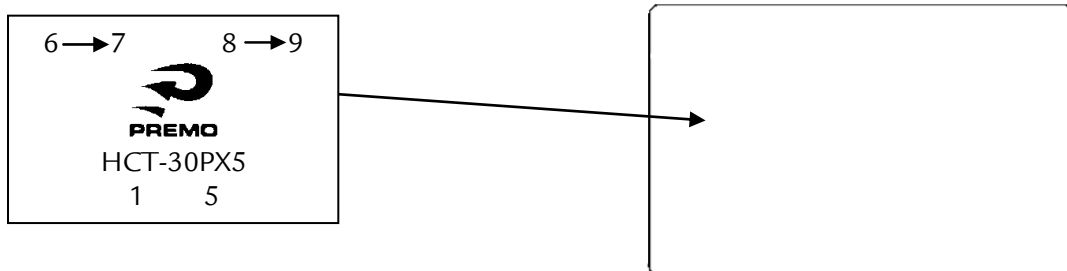
All dimensions are in mm.

General Tolerance ± 0.5 mm.

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

Marking

Component is marked as follows:



NOTES

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2.- ELECTRICAL PARAMETERS

Primary Nominal Current	30 A RMS	I_{pn}
Measuring Range	± 66 A DC	I_p
Secondary Nominal Voltage	+2.5±1.0 RMS	V_o
Conversion Ratio	1:1500	N
Supply Voltage (± 5 %)	+ 5 ±5%V	V_{cc}
Current Consumption	<40 mA	I_{cc}

3.- ACCURACY

Accuracy at I _p T = 25 °C	< ± 0.5 %	a
Linear Error (Full Scale) V _{cc} = +5V	< 0.1 %	e_{LLR}
Offset Voltage	<10mV Max	V_{os}
Offset Voltage Drift	± 0.02V/°C	KV_{os}
Time Response (10% to 90% of I _p) Related to di/dt Specified	<0.5us	T_R
Frequency Bandwidth	DC to 200kHz (-3dB)	F_c

4.- OUTPUT CONNECTOR

Connection	PTH	
Compensation Winding Maximum Resistance (T = 25°C)	50 Ohm	R_c

5.- GENERAL DATA

Operating Temperature	-40 to +85 °C	T_A
Storage Temperature	-40 to +125 °C	T_s
Weight	22 g	M
Basic Insulation (Between Primary and Measurement Current)	3000 V AC 50Hz 1'	V_i

6.- EDITION CONTROL

Edition	Date	Change description	Made by
1 st	23/08/10	First Edition	Marta Escolar
2 nd	05/11/10	Updated dimensions and included marking	Marta Escolar

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**HALL EFFECT CURRENT TRANSDUCER CLOSED
 LOOP 10A 2:1000 (V. Output)
 HCT-10PX5**

NOTES

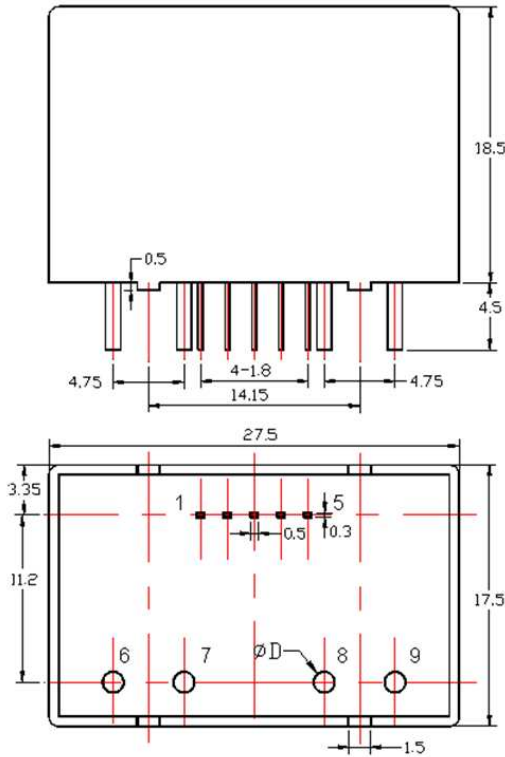


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1.- DIMENSIONS AND PINS CONFIGURATION

HCT-10PX5



Terminal Pin Identification

- 1.....+5V
- 2.....0V
- 3.....Output1
- 4.....Output2
- 5.....2.5V
- 6.....primary input current(+)
- 7.....primary input current(--)
- 8.....primary input current(+)
- 9.....primary input current(--)

Primary conductor diameter

HCT	10PX5
D	1.0

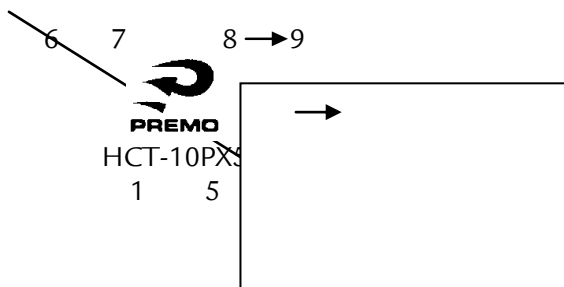
All dimensions are in mm.

General Tolerance ± 0.5 mm.

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


Marking

Component is marked as follows:



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2.- ELECTRICAL PARAMETERS

Primary Nominal Current	10 A RMS	I_{pn}
Measuring Range	± 22 A DC	I_p
Secondary Nominal Voltage	+2.5±1.0 ± 0.5% DC	V_s
Nominal Output at 10A	3,5 V ± 0.5% at I _{pn} 1.5 V ± 0.5% at -I _{pn}	
Conversion Ratio	2:1000	N
Supply Voltage (± 10 %)	+ 5 ±5%V	V_{cc}

3.- ACCURACY

Accuracy at I _p T = 25 °C	< ± 0.5 %	a
Linear Error (I _p > 200 A) V _{cc} = ±5V	< 0.1 %	e_{LLR}
Offset Voltage	<10 mV Max	V_{os}
Offser Voltage Drift	± 0.5 mV/°C	K_{los}
Time Response (10% to 90% of I _p) Related to di/dt Specificated	<0.5us	T_R
Frequency Bandwidth (I _p = 10 A AC)	DC to 200kHz (-3dB)	F_c

4.- OUTPUT CONNECTOR

Connection	Connection	
Inner Resistance (T = 25°C)	50 Ohm	R_c

5.- GENERAL DATA

Operating Temperature	-40 to +85 °C	T_A
Storage Temperature	-40 to +125 °C	T_s
Weight	17 g	M
Basic Insulation (Between Primary and Measurement Current)	3000 V AC 50Hz 1'	V_i

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