



HCT-10PX5

RoHS
2002/95/EC

Technical Specification

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

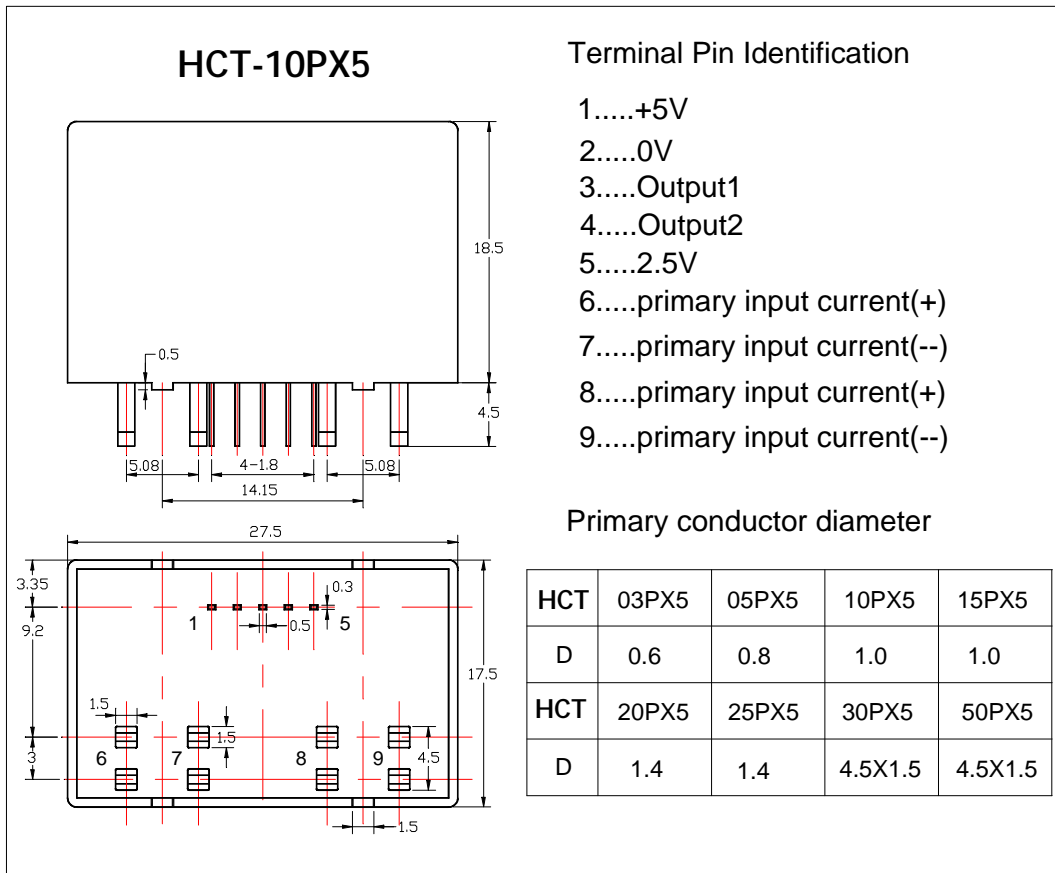
Edition	Changed by	Date	Change description
1 st	V.Repecho	18/01/10	First edition



HCT-10PX5



1. Dimensions



Notes.

- General Tolerance ± 0.5 mm

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



HCT-10PX5

RoHS
2002/95/EC

2. Electrical Parameters

Primary Nominal Current	10 A	I_{pn}
Measuring Range	± 22 A DC	I_p
Secondary Nominal Voltage	$+2.5 \pm 1.0 \pm 0.5\%$ DC	V_s
Nominal Output at 10A	3,5 V $\pm 0.5\%$ at I_{pn} 1.5 V $\pm 0.5\%$ at $-I_{pn}$	
Conversion Ratio	2:1000	N
Supply Voltage ($\pm 10\%$)	+ 5 $\pm 5\%$ V	V_{cc}
Current Consumption	<40 mA	I_{cc}

3. Accuracy

Accuracy at I_p T = 25 °C	< $\pm 0.5\%$	a
Linear Error ($I_p > 200$ A) $V_{cc} = \pm 5V$	< 0.1 %	e_{LLR}
Offset Voltage	<10 mV Max	V_{OS}
Offser Voltage Drift	± 0.5 mV/°C	KI_{OS}
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

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



HCT-10PX5

RoHS
2002/95/EC

4. Output Connector

Connection	PTH	
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	
Basic Insulation (Between Primary and Measurement Current)	3000 V AC 50Hz 1'	V _I

6. Standards

-

7. Packaging

- Single Packaging.

**END OF
DOCUMENT**