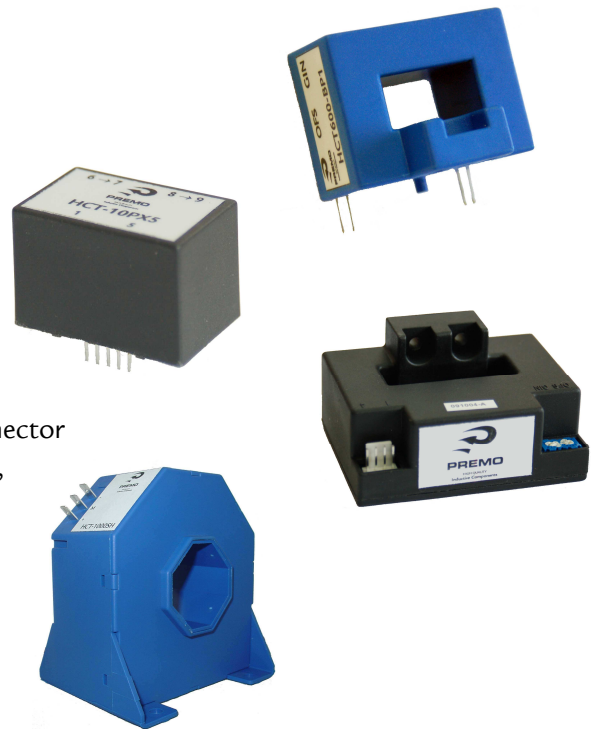


Features

- DC, AC Hall Effect Current Transducers
- Open Loop and Closed Loop operation Modes
- Wide range of primary current measurement s, from 5 A up to 1200 A RMS.
- Wide range of frequencies Band Width, Typically from 0 up to 50,100 and 200 kHz.
- Useful to measure Current spikes, overshoots and ringing effects.
- Bipolar and Unipolar Power Supply
- Different ways for connection, PTH or standard connector
- Output voltage signals typically for Open Loop Ones, Current signal outputs for closed loop ones
- Customized outputs Possibilities
- UL94V-0 material
- RoHS compliant



Application

- General Industrial applications for current Monitoring
- Current measure on input stage batteries inverters
- UPS Applications (Uninterruptible Power Supplies)
- General using in Switched Power Supplies, for digital control systems

General Electrical specifications. Closed Loop Devices

| Code | Family | Nominal Current (A RMS) | Measuring Current (A DC) | Secondary Output Signal | Supply Voltage (V) | Accuracy (See Note 1) | Linearity (See Note 2) | Mounting | Isolation (V AC 50Hz) |
|------------|--------|-------------------------|--------------------------|-------------------------|--------------------|-----------------------|------------------------|-----------|-----------------------|
| HCT-25A05 | A05 | 25 | ±50 | ± 25 mA | ±15 | ±0.5% | 0,20% | PCB | 2500 |
| HCT-35A05 | A05 | 35 | ±70 | ± 35 mA | ±15 | ±0.5% | 0,20% | PCB | 2500 |
| HCT-100LP | LP | 100 | ±300 | ± 50 mA | ±12-18 | ±0.5% | 0,10% | PCB | 3000 |
| HCT-200LP | LP | 200 | ±600 | ± 100 mA | ±12-18 | ±0.5% | 0,10% | PCB | 3000 |
| HCT-50AP | AP | 50 | ± 150 | ± 50mA | ± 12-18 | ± 0,5% | 0,10% | PCB | 3000 |
| HCT-100AP | AP | 100 | ± 300 | ± 50mA | ± 12-18 | ±0,5% | 0,10% | PCB | 3000 |
| HCT-200AP | AP | 200 | ± 600 | ±100mA | ± 12-18 | ±0,5% | 0,10% | PCB | 3000 |
| HCT-300LTP | LTP | 300 | ±900 | ± 150 mA | ±12-18 | ±0.5% | 0,10% | Connector | 6000 |
| HCT-10PX5 | PX5 | 10 | ±22 | 3.5V@+Inom / 1.5V@-Inom | 5 | ±0.5% | 0,10% | PCB | 3000 |
| HCT-30PX5 | PX5 | 30 | ±66 | 3.5V@+Inom / 1.5V@-Inom | 5 | ±0.5% | 0,10% | PCB | 3000 |
| HCT-1000SH | SH | 1000 | ±3000 | ± 200 mA | ±15-24 | ±0.1% | 0,10% | Connector | 4000 |
| HCT-2000LF | LF | 2000 | ±5000 | ± 400 mA | ±15-24 | ±0.2% | 0,10% | Connector | 4000 |

Notes

(1) Accuracy levels at Nominal current, measured at room temperature over a 1 Ohm, non-inductive precision burden resistor (for all the model except PX5 ones).

(2) Typical linearity response, measuring from 10% to 100% of nominal current

(3) Individual data sheet for each transducer available on Premo Website.

All data are related to room temperature, 25°C ± 2 °C.

General Electrical specifications. Open Loop Devices

| Code | Nominal Current (A RMS) | Measuring Current (A DC) | Secondary Output Signal | Supply Voltage (V) | Accuracy (See Note 1) | Linearity (See Note 2) | Mounting | Isolation (V AC 50Hz) |
|------------|-------------------------|--------------------------|-------------------------|--------------------|-----------------------|------------------------|-----------|-----------------------|
| HCT-100BP1 | 100 | ±300 | ± 4 V | ±15 | ±1% | < 1 % | PCB | 2500 |
| HCT-200BP1 | 200 | ±600 | ± 4 V | ±15 | ±1% | < 1 % | PCB | 2500 |
| HCT-600BP1 | 600 | ±1000 | ± 4 V | ±15 | ±1% | < 1 % | PCB | 2500 |
| HCT-100BP2 | 100 | ±300 | ± 4 V | ±15 | ±1% | < 1 % | PCB | 2500 |
| HCT-200BP2 | 200 | ±600 | ± 4 V | ±15 | ±1% | < 1 % | PCB | 2500 |
| HCT-600BP2 | 600 | ±1000 | ± 4 V | ±15 | ±1% | < 1 % | PCB | 2500 |
| HCT-50BP5 | 50 | ±100 | 3.5V@+Inom / 1.5V@-Inom | 5 | ±1% | < 1 % | PCB | 3000 |
| HCT-100BP5 | 100 | ±200 | 3.5V@+Inom / 1.5V@-Inom | 5 | ±1% | < 1 % | PCB | 3000 |
| HCT-500F | 500 | ±1200 | ± 4 V | ±15 | ±1% | < 1 % | Connector | 5000 |
| HCT-800F | 800 | ±1600 | ± 4 V | ±15 | ±1% | < 1 % | Connector | 5000 |
| HCT-1000F | 1000 | ±2000 | ± 4 V | ±15 | ±1% | < 1 % | Connector | 5000 |
| HCT-100N | 100 | ±300 | ± 4 V | ±15 | ±1% | < 1 % | Connector | 3000 |
| HCT-300N | 300 | ±900 | ± 4 V | ±15 | ±1% | < 1 % | Connector | 3000 |
| HCT-1000K | 1000 | ±2000 | ± 4 V | ±15 | ±1% | < 1 % | Connector | 6000 |
| HCT-1200K | 1200 | ±2500 | ± 4 V | ±15 | ±1% | < 1 % | Connector | 6000 |
| HCT-50LB | 50 | ±150 | ± 4 V | ±15 | ±1% | < 1 % | Connector | 2500 |
| HCT-100LB | 100 | ±200 | ± 4 V | ±15 | ±1% | < 1 % | Connector | 2500 |

Notes

(1) Accuracy levels at Nominal current, measured at room temperature over a 10 kOhm burden resistor .

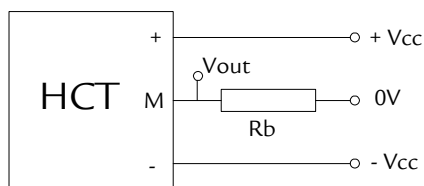
(2) Typical linearity response, measuring from 10% to 100% of nominal current

(3) Individual data sheet for each transducer available on Premo Website.

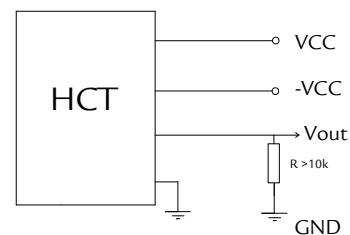
All data are related to room temperature 25°C ± 2 °C.

Recommended installation Diagrams.

Closed Loop Devices



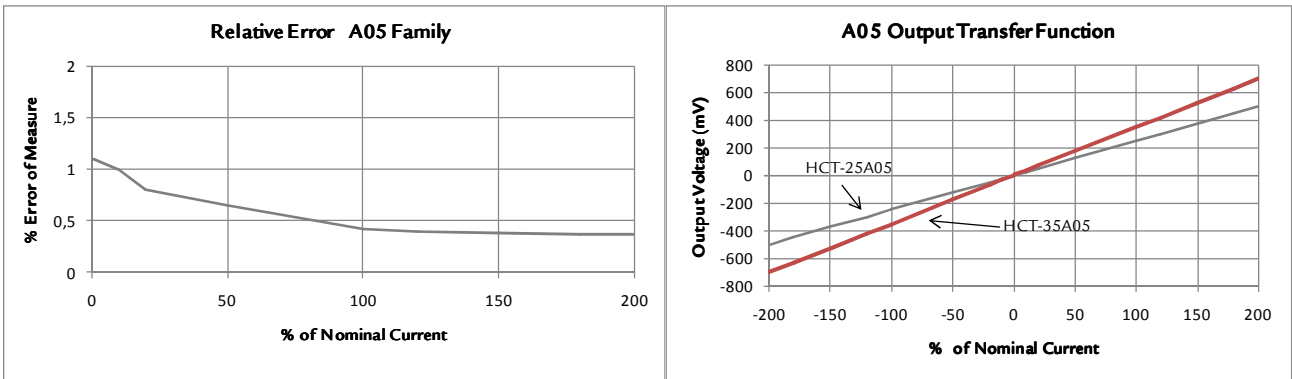
Open Loop Devices



Typical Accuracy Vs Primary Current Range and Output transfer function.

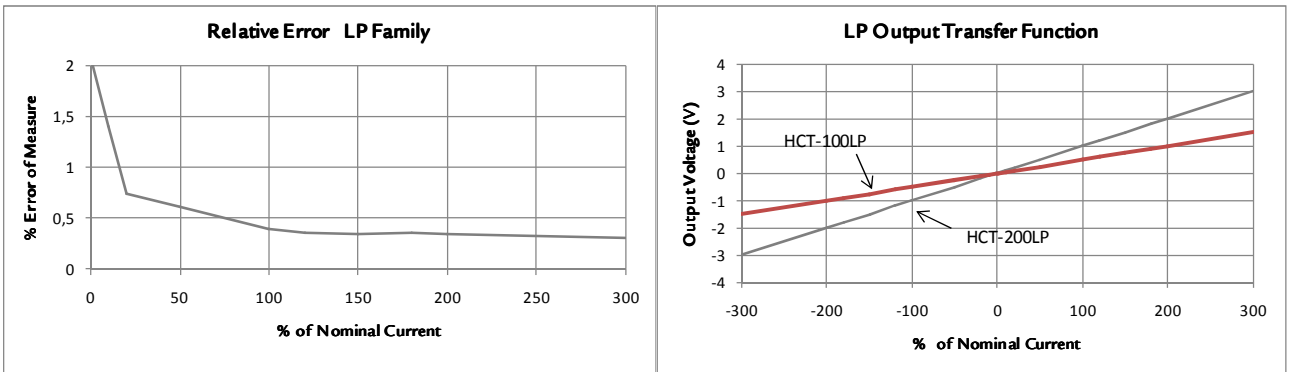
In the graphs showed as per below accuracy levels reached with each family are presented. The curves present the typical average values. Ideal transfer function input current vs output signals are presented as well.

A05 FAMILY



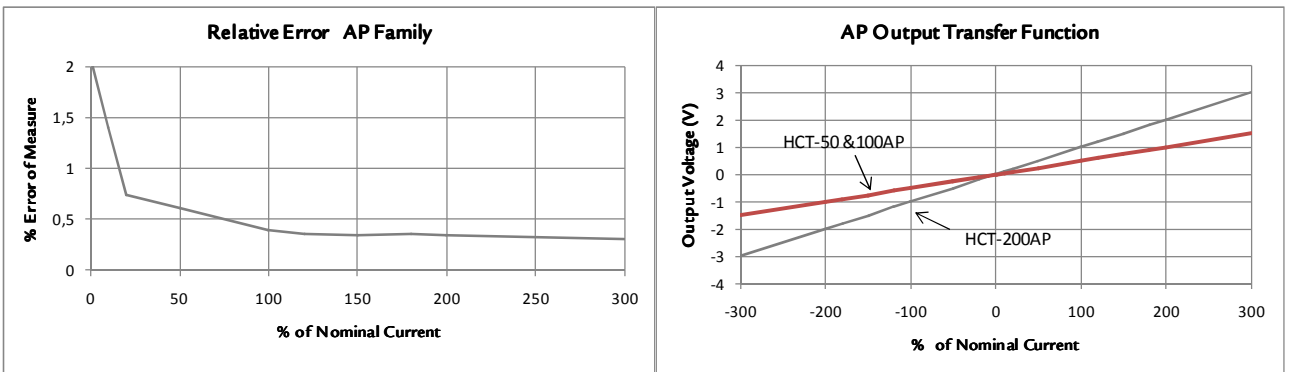
Data at 25°C. Burden resistor used 10 Ohm ± 0.2 %. Vcc ± 15V

LP FAMILY



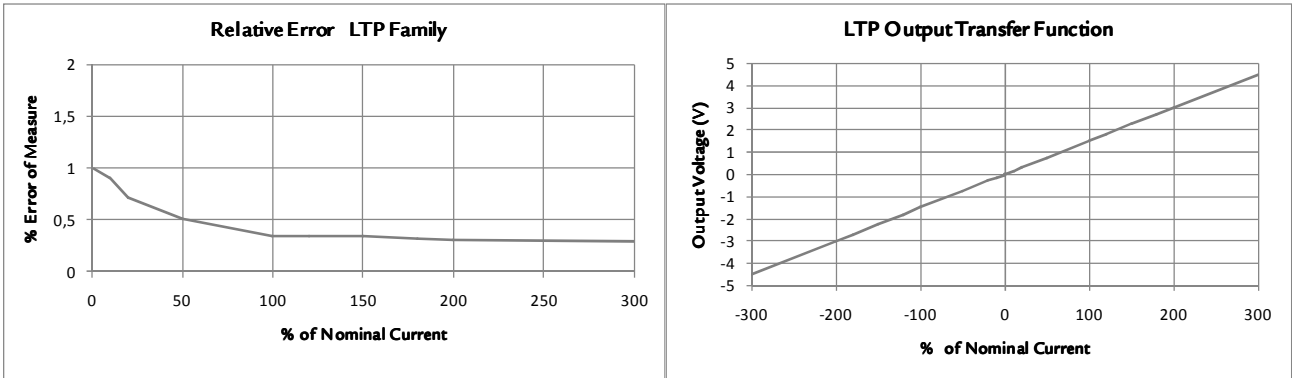
Data at 25°C. Burden resistor used 10 Ohm ± 0.2 %. Vcc ± 15V

AP FAMILY



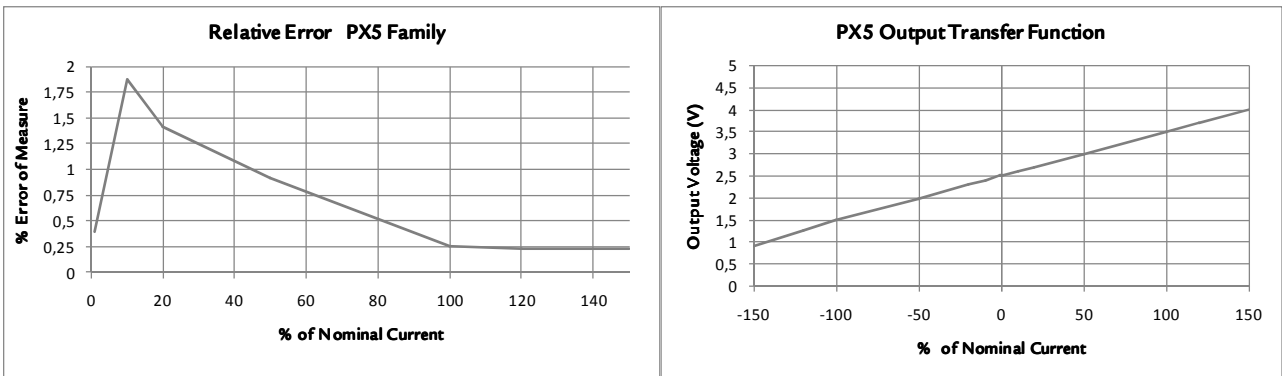
Data at 25°C. Burden resistor used 10 Ohm ± 0.2 %. Vcc ± 15V

LTP FAMILY



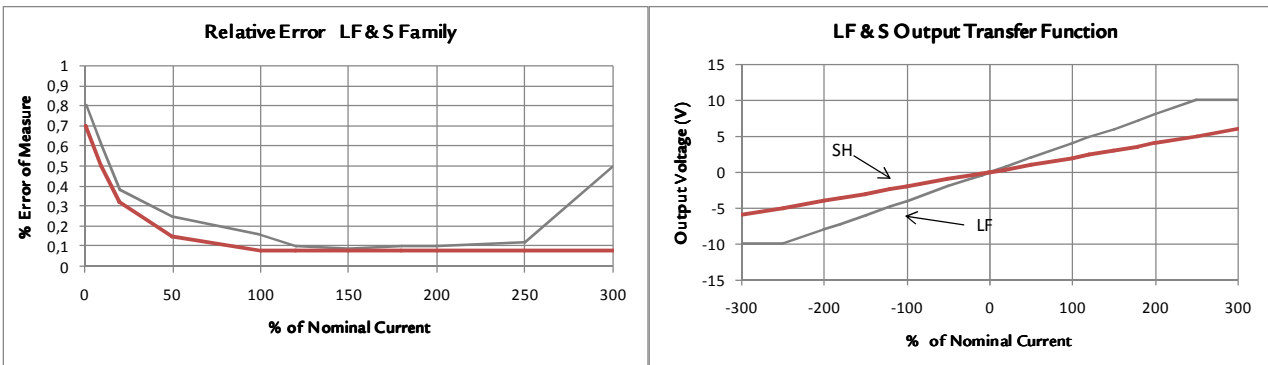
Data at 25°C. Burden resistor used 10 Ohm ± 0.2 %. Vcc ± 15V

PX5 FAMILY



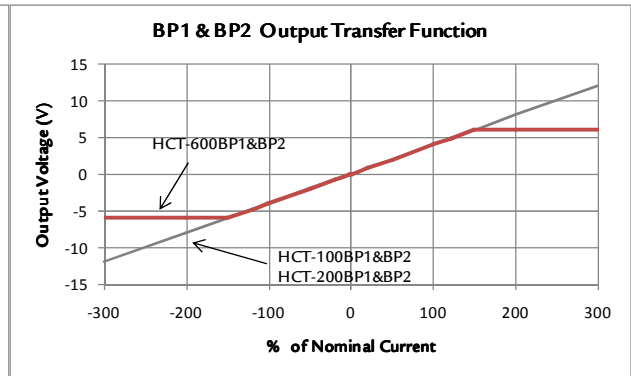
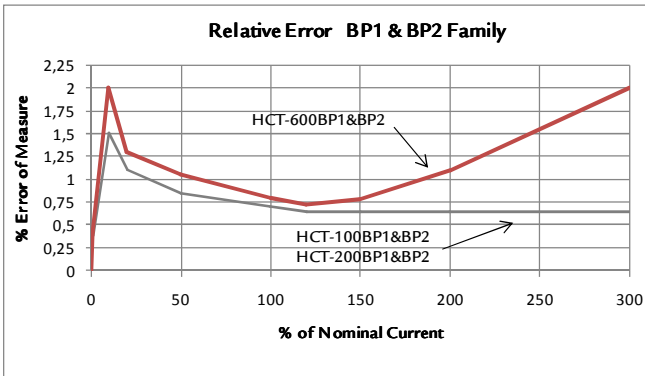
Data at 25°C. Vcc = 5 V

LF & SH FAMILY



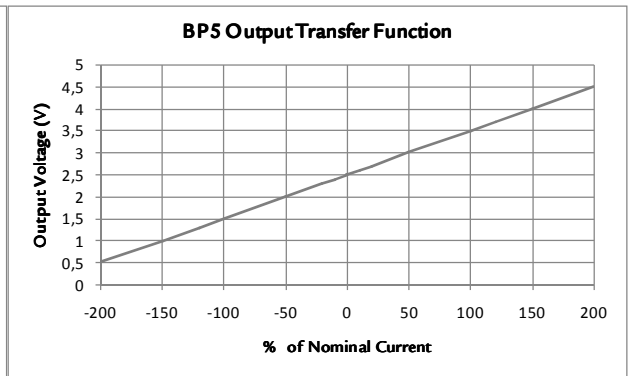
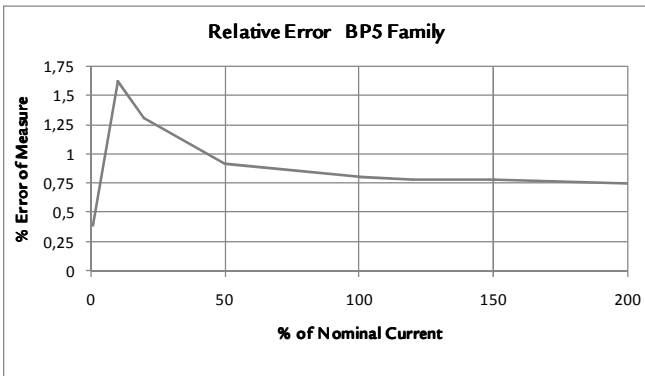
Data at 25°C. Burden Resistor 10 Ohm ± 0.2% Vcc = ± 24 V

BP1 & BP2 FAMILY



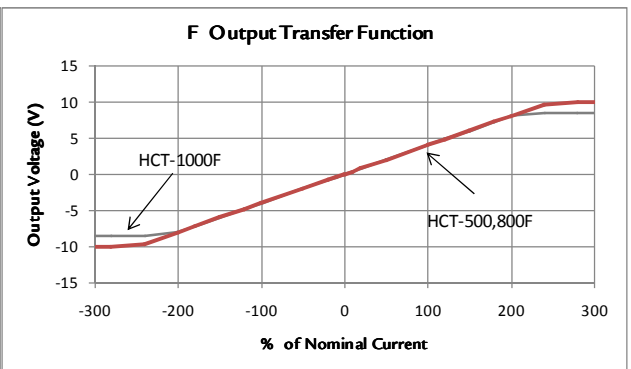
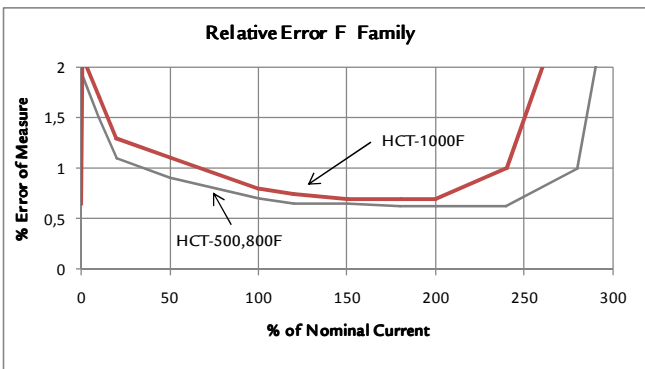
Data at 25°C. R load 10 kOhm \pm 5 % $V_{cc} = \pm 15$ V

BP5 FAMILY



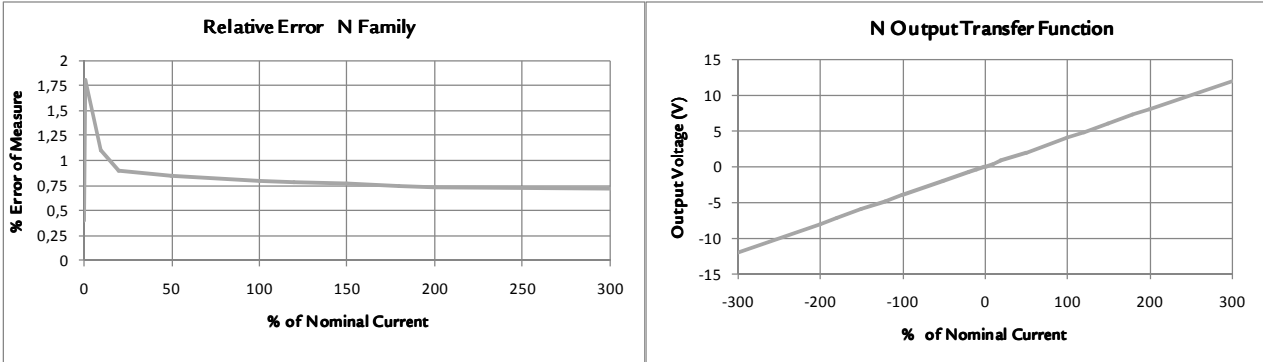
Data at 25°C. R load 10 kOhm \pm 5 % $V_{cc} = \pm 15$ V

F FAMILY



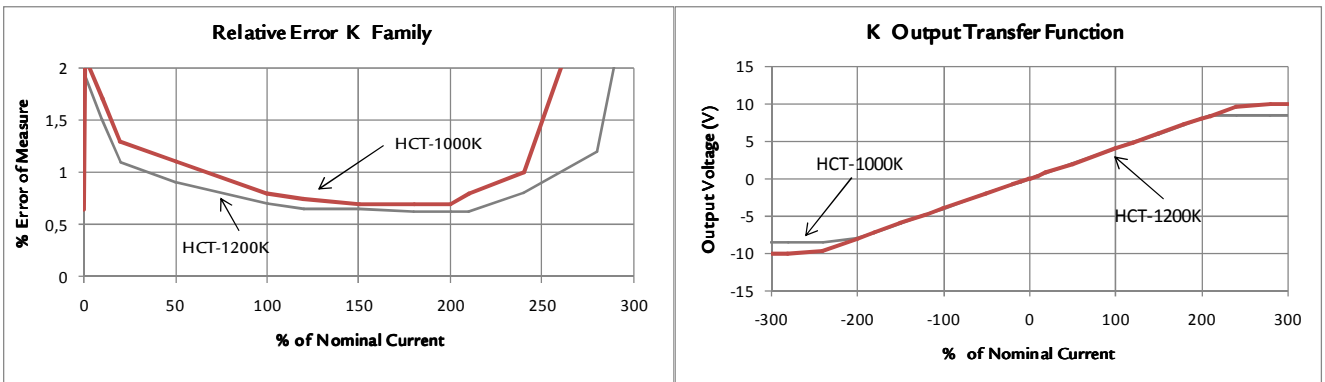
Data at 25°C. R load 10 kOhm \pm 5 % $V_{cc} = \pm 15$ V

N FAMILY



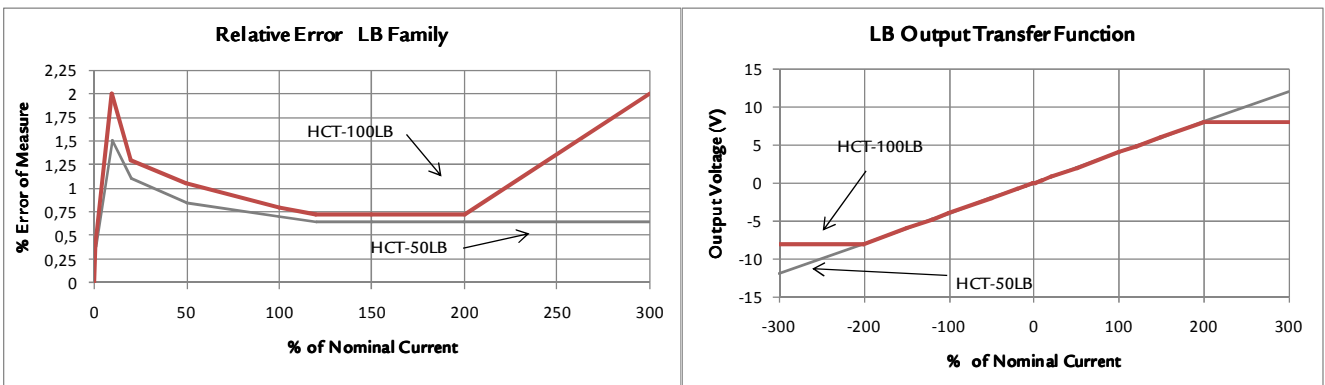
Data at 25°C. R load 10 kOhm ± 5 % Vcc = ± 15 V

K FAMILY



Data at 25°C. R load 10 kOhm ± 5 % Vcc = ± 15 V

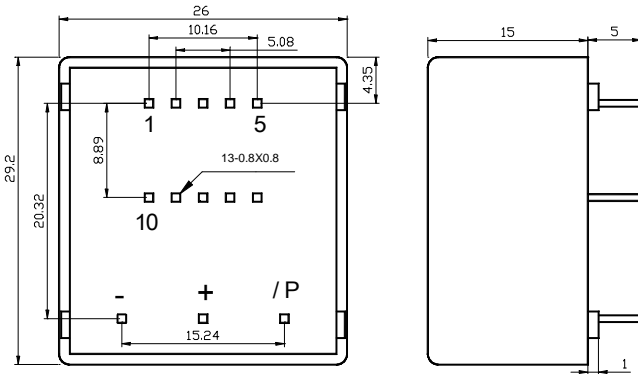
LB FAMILY



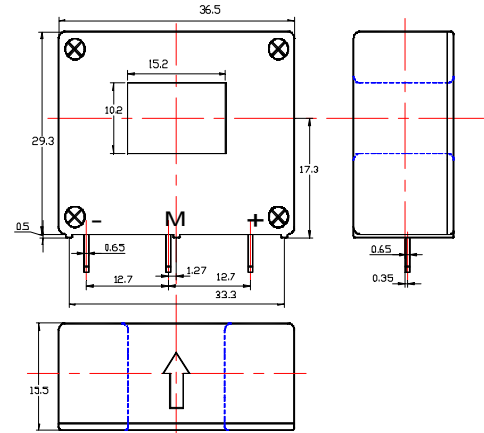
Data at 25°C. R load 10 kOhm ± 5 % Vcc = ± 15 V

Dimensions

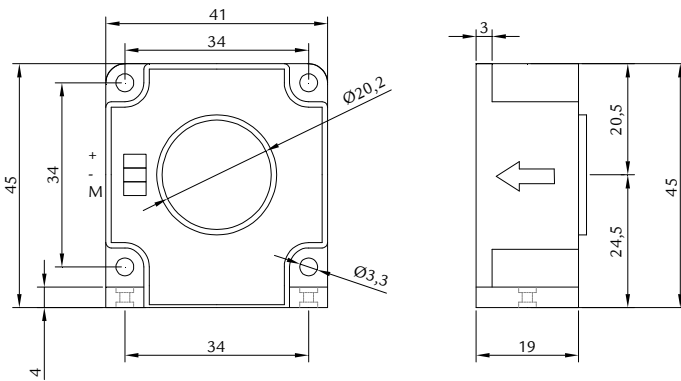
A05



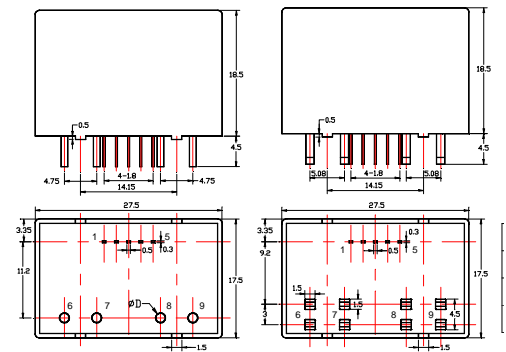
LP



LTP

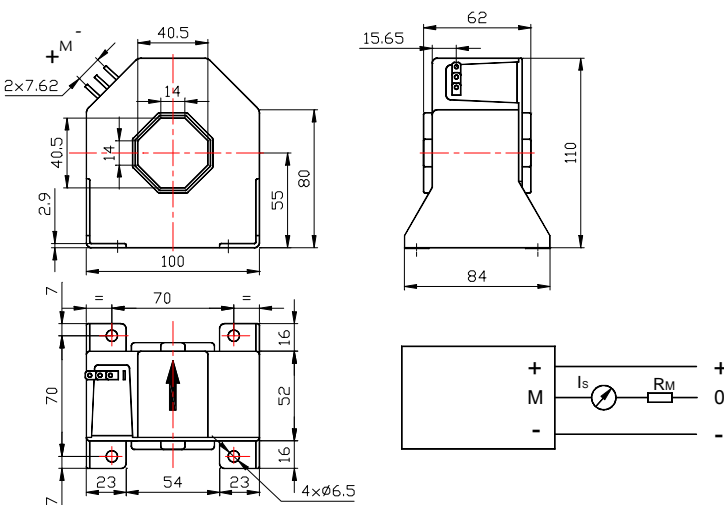


PX5

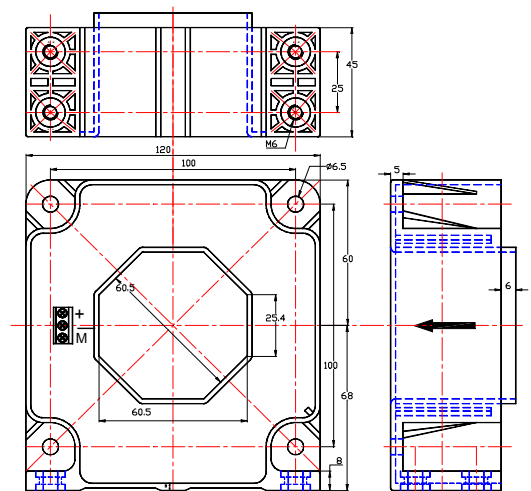


(See pin-out on individual data sheet)

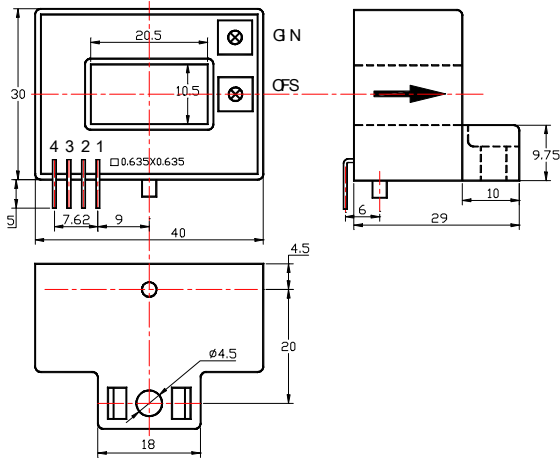
S



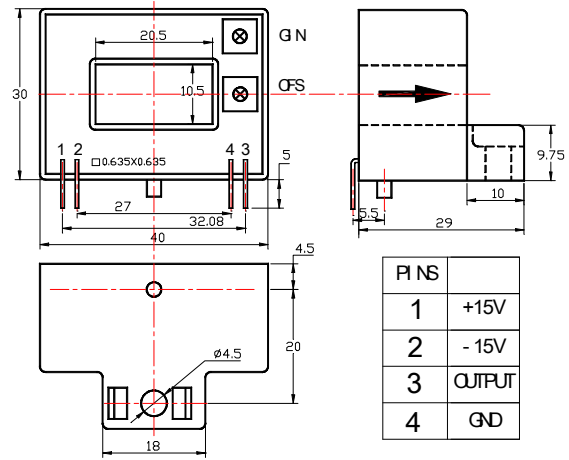
LF



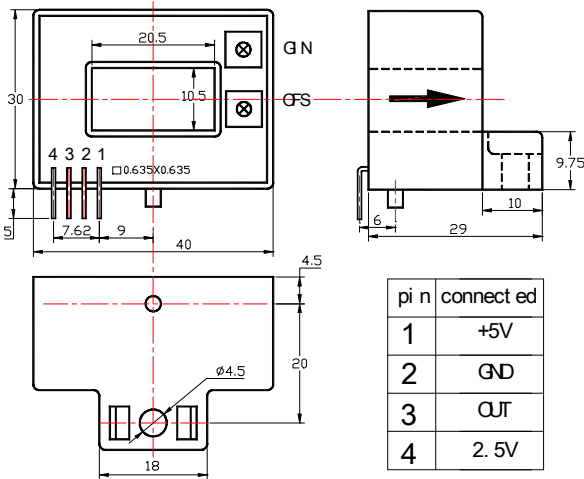
BP2



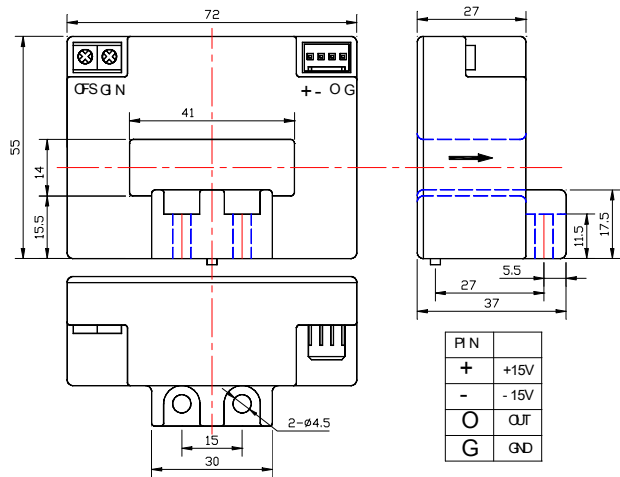
BP1



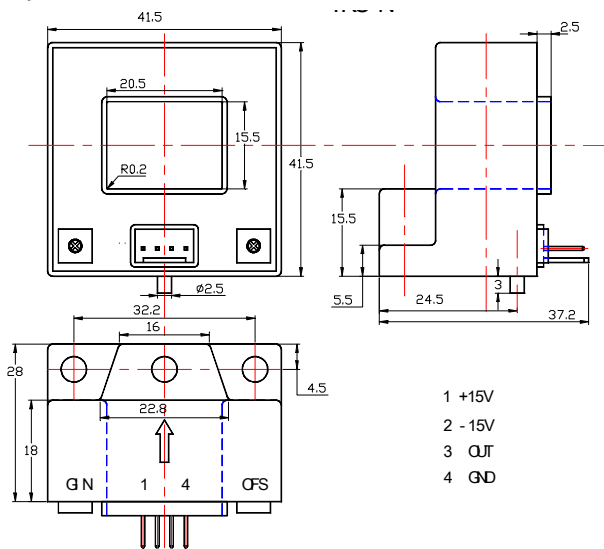
BP5



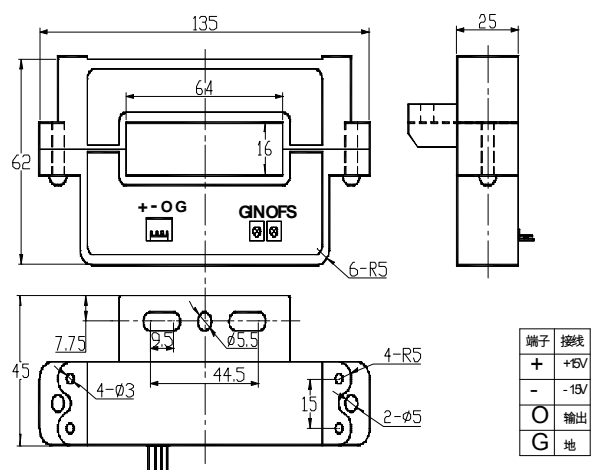
F



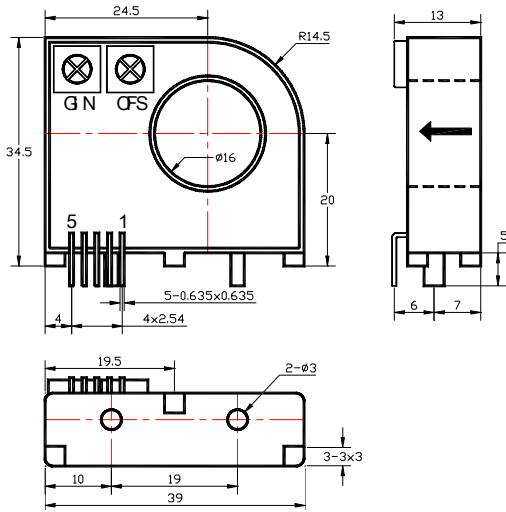
N



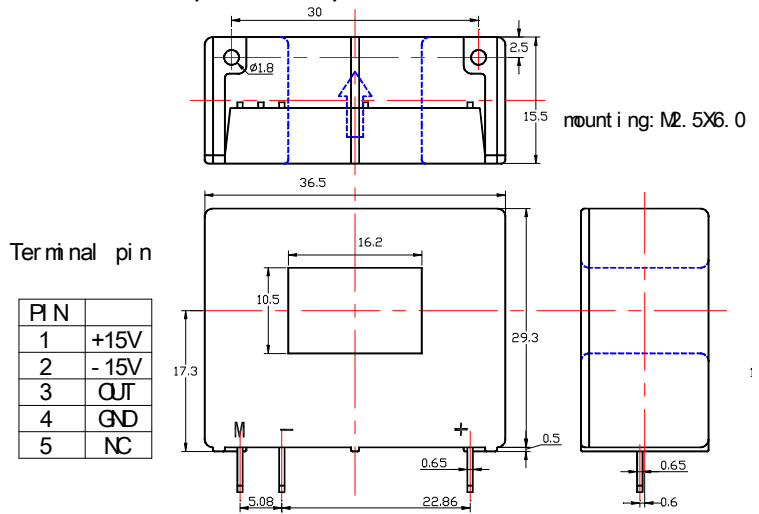
K



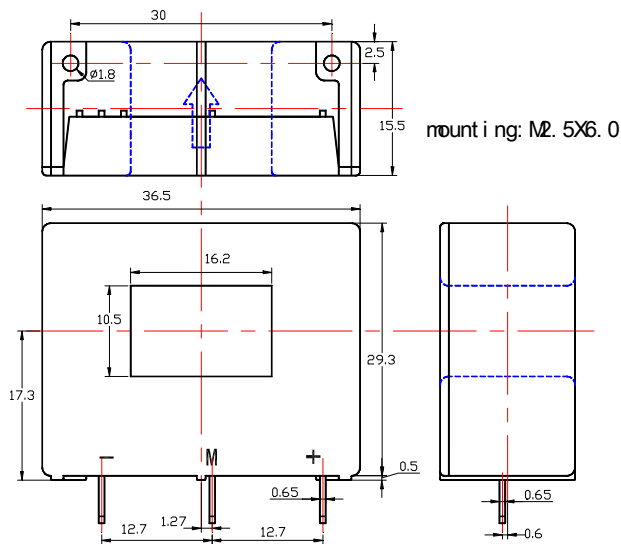
LB



AP (50&100)



AP (200)



Packaging

Antistatic trays with carton grids in carton box