

## Product Data sheet : Hall Effect Current Sensor - HB400T01

Date : 27.12.2014

Rev : 01

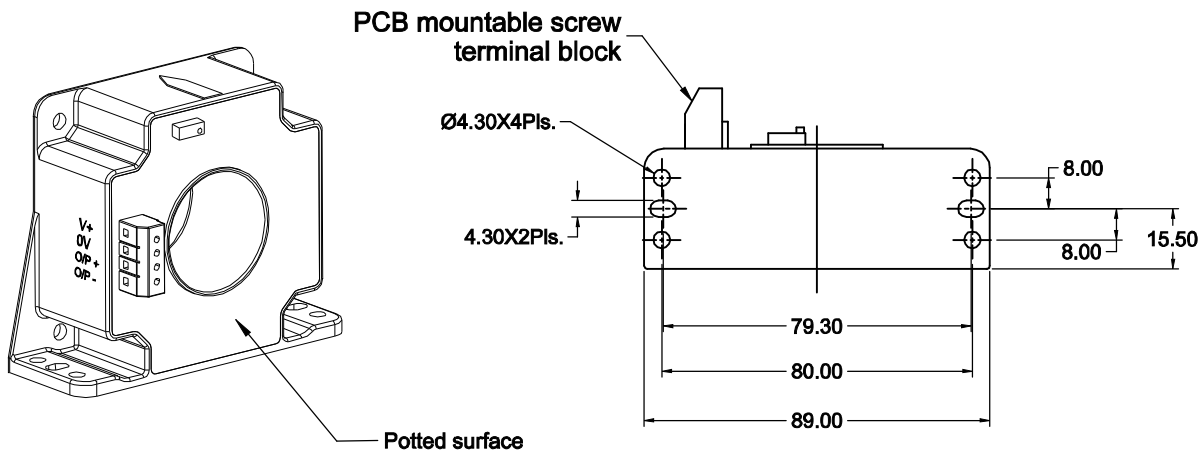
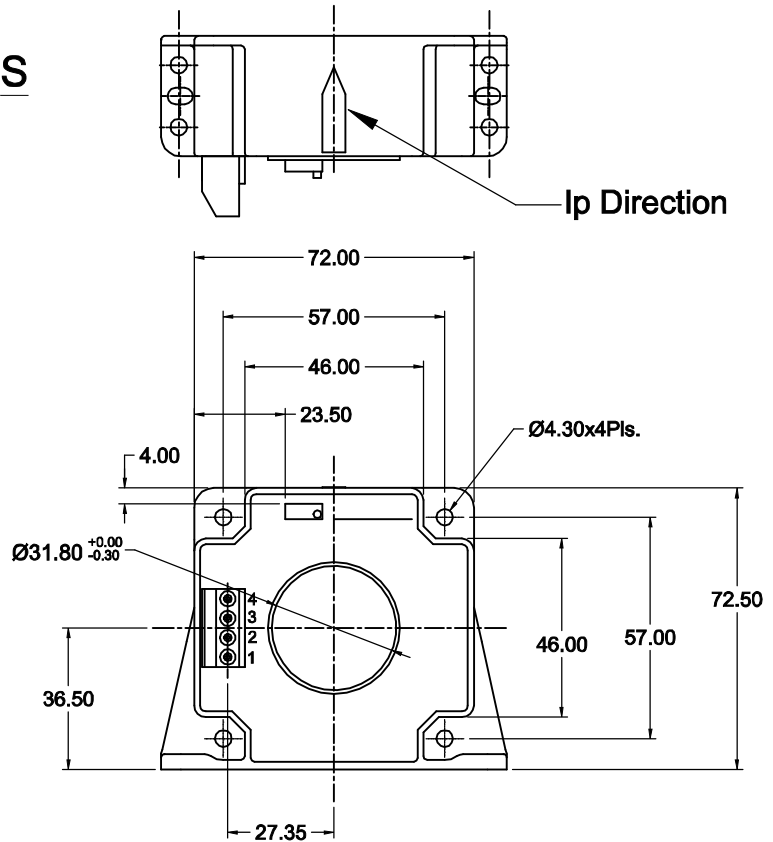
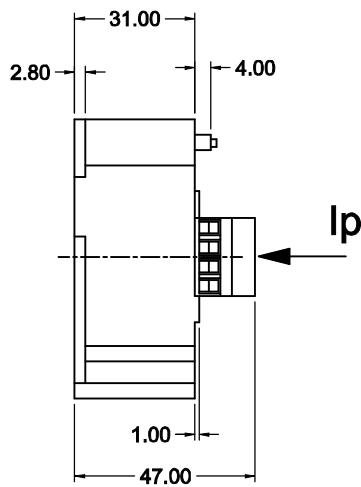
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Customer: ---

Customer's part No.: ---

**Pb** RoHS Compliant

### ● MECHANICAL DIMENSIONS



- Pin 1 : Output - (O/P -)
- Pin 2 : Output + (O/P +)
- Pin 3 : Ground (0V)
- Pin 4 : Supply Voltage (V+)

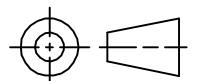
### ● APPLICATION :

Used for measurement of electric current, DC in electrical & electronic equipment.

### ● FEATURES :

- Open loop current sensor.
- Flange mounting type.
- Signal Conditioned 4-20mA Output.

GENERAL TOL.  
±0.5 mm

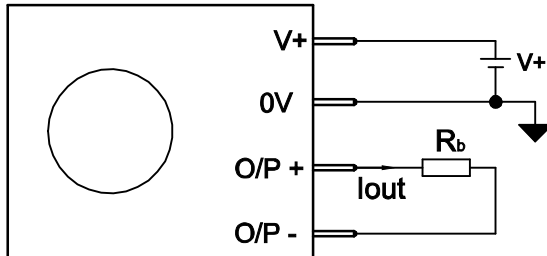


ALL DIMENSIONS  
ARE IN 'mm'

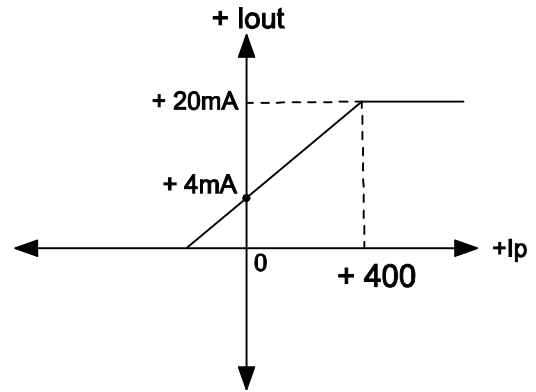
SCALE -NTS

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## ● CONNECTIONS DIAGRAM



## ● INPUT & OUTPUT CHARACTERISTICS



+ Ip Indicates primary current flowing in the direction of the arrow

## ● SPECIFICATIONS @ 25° C \*\*

PARAMETERS	VALUES	UNITS
Primary Current Nominal (Ipn)	400	A DC
Maximum Primary Current (Ip)	440	A DC
Burden Resistance (Rb) @+ 24V, Ipn	0 - 500	Ω
Current output @ Ip=0, (Optional Potentiometer for adjustment)	4 ± 0.08	mA DC
Current output @ Ipn (Iout)	20	mA DC
Supply Voltage (V+), ±5%	+24	V
Current consumption @ +24V, Ip = 0 (Ic)	25	mA
Accuracy @ Ipn (Vc = + 24V)	± 0.5	%FS
Linearity	< 0.5	%Ipn
Temperature coefficient of I out (% of reading)	± 0.025	% / °K
Response time 90% of Ipn step	500	μS
Dielectric strength Primary to o/p terminals	3.75	kVrms
Operating Temperature Range	- 40 to + 60	°C

\*\* Specifications subject to change.

Note :