

Product Data sheet : Hall Effect Current Sensor - HE100T01

Date :14.07.2012

Rev : 05

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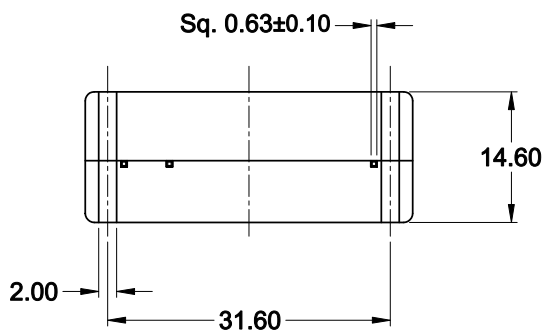
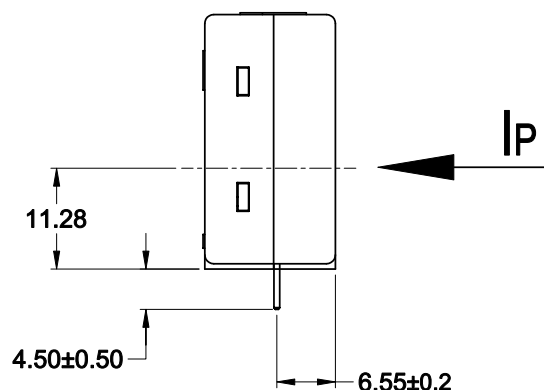
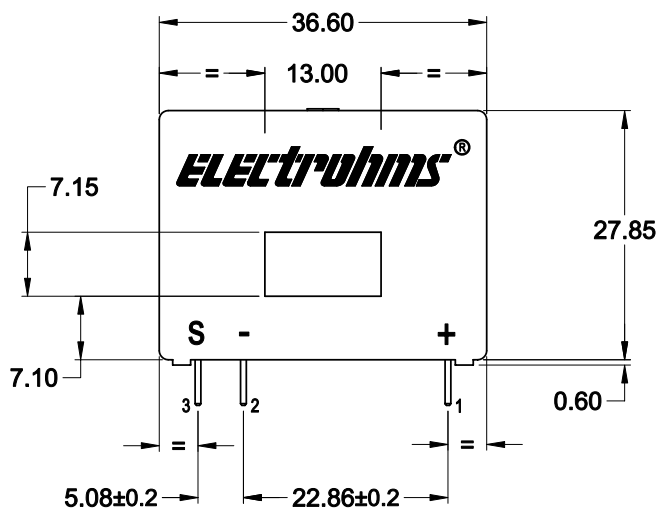
Customer: Standard

Customer's part No.: ---

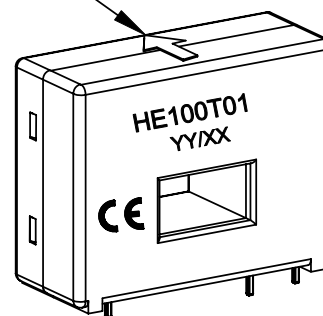
 RoHS Compliant



● MECHANICAL DIMENSIONS



Primary current direction



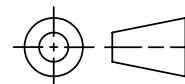
● APPLICATION :

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

● FEATURES :

- Closed loop current sensor.
- Current output.
- PCB Mountable.
- All relevant materials are UL approved

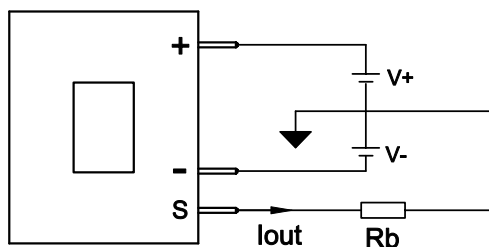
GENERAL TOL.
±0.5 mm



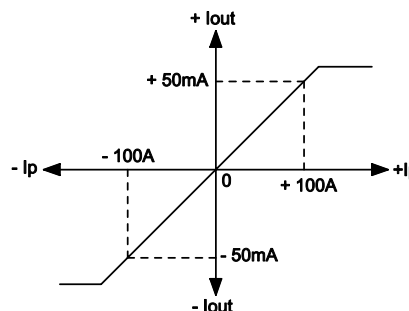
ALL DIMENSIONS
ARE IN 'mm'

SCALE -NTS

● CONNECTION DIAGRAM



● INPUT & OUTPUT CHARACTERISTICS



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

● SPECIFICATIONS @ 25° C **

PARAMETERS	VALUES	UNITS
Primary Current Nominal (I _{pn})	100	Arms
Primary current, range (I _p)	0 to +/- 150	A
Burden Resistance (R _b) @ ± 12V, ±100A @ ± 15V, ±150A	50 (max.) 33 (max.)	Ω
Conversion Ratio (K)	2000 : 1	---
Current output @ I _{pn} (I _{out})	50	mA
Supply Voltage (V+ / V-), ± 5 %	+/- 12 to 15	V
Current consumption @ ±15V (I _c)	11 + I _{out}	mA
Accuracy	+/- 0.65	%
Linearity	≤ 0.10	%
Output offset current @ I _p = 0 (-40 to +85°C)	±0.10 Typical	mA
Temperature variation of I _{out} (-40 to +85°C)	±0.20	mA
Reaction time 10% I _{pn} step	< 0.5	μs
Response time 90% of I _{pn} step	< 1.0	μs
di/dt Accurately followed	> 200	A/μs
Frequency bandwidth @ -1 dB (fbw)	DC to 200	kHz
Secondary coil resistance	98.0 Typical	Ω
Dielectric strength Primary to o/p terminals	2.5	kVrms
Operating Temperature Range	- 40 to + 85	°C
Storage Temperature	- 40 to + 85	°C
Weight	22	g
Standards :	EN 55011 / CISPR 11 EN 61000-4-2 / IEC 61000-4-2 EN 61000-4-3 / IEC 61000-4-3 EN 61000-4-8 / IEC 61000-4-8	

** Specifications subject to change.

Note : ---