

CURRENT MEASURING PRODUCTS



current sensors overview

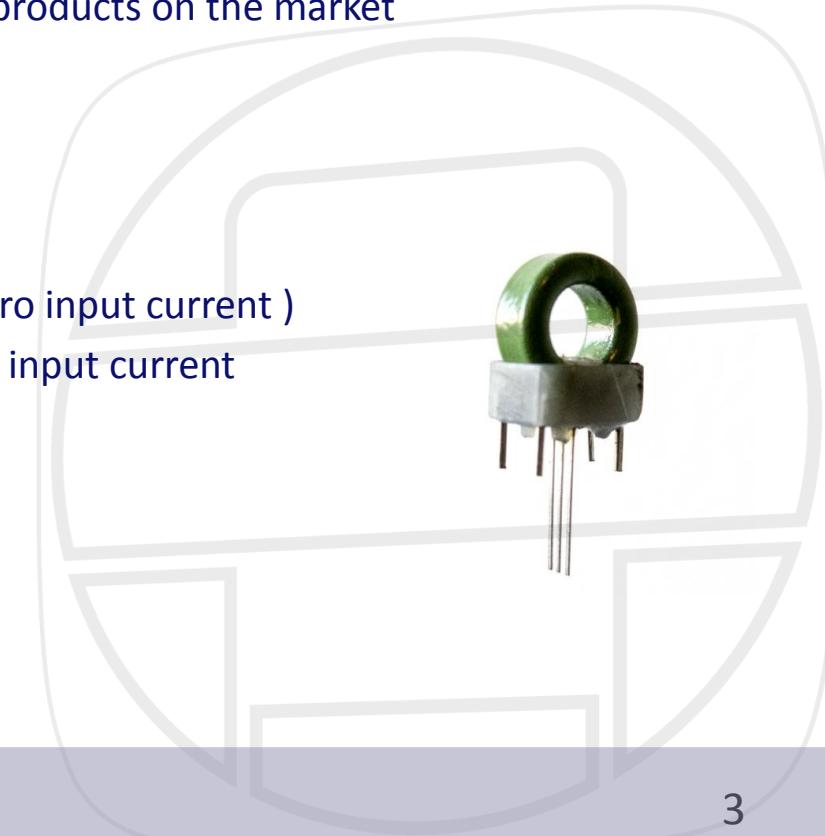
series	freq. range	standard products max current	notes
SHL	DC to 100KHz	38A - 90A	miniature PCB mount open loop hall effect sensor very low phase shift error suitable for precision energy meters
SBT	50-400Hz	19,2A - 62A - 83A	miniature PCB mount high precision very low phase shift error suitable for precision energy meters
SDL	50-400Hz	73A - 105A - 225A	split core for easy “on cable” mounting

Refers to Itacoil catalogue for detailed technical data

Custom products on request⁽¹⁾

(1) Subject to MOQ

- effective solution to measure DC to 100KHz, introduce attenuation at higher frequencies
- very low and constant phase shift error, easily removed by software
- very low thermal shift compared to most similar products on the market
- very small dimensions
- high creepage, clearance and dielectric strength
- 3,3...5Vdc power supply (Vs) required
- 0...(Vs) about output signal range
- 50% of (Vs) about quiescent output voltage (at zero input current)
- bi-directional output signal variations mirrors the input current
- usually applied into instruments managed by μ P
- required individual offset and gain calibration



- effective solution 50 to 400Hz currents precision measurement
- very low linearity error
- very low phase shift error
- very small dimensions
- high creepage/clearance and dielectric strength
- suitable for A meters and W meters (energy meters)



- effective solution 50 to 400Hz high currents precision measurement
- low linearity error
- relatively constant phase shift error, compensation allowed
- high output signal level to reduce noise-signal ratio
- small dimensions
- high creepage/clearance and dielectric strength
- designed for cable mount



All the SBT and SLD series current sensors can be supplied on EN60715 - 35/7,5 mm DIN rail mounting

Available options:

- (A) screw termination on primary circuit with one or more primary turn⁽¹⁾
- (B) personalized burden resistor value and precision for the required signal level, etc.
- (C) single-turn or multi-turn trimmer for on-site gain adjustment



(1) To use a current sensor with currents very lower to its max current preserving output signal level and precision, some primary turns are required instead one turn only