CSNK500M

Overview

CSN Series closed loop linear current sensor, measures ac, dc or impulse current, 500 A nominal, ±1275 A range, 5000 turns, reduced size.
CSN Series closed loop linear current sensors are based on magnetoresistive or Hall-effect technology and the null balance or zero magnetic flux method (feedback system). The magnetic flux in the sensor core is constantly controlled at zero. The amount of current required to balance zero flux is the measure of the primary current flowing through the conductor, multiplied by the ratio of the primary to secondary windings. This closed loop current is the output from the device and presents an image of the primary current reduced by the number of secondary turns at any time. This current can be expressed as a voltage by passing it through a resistor.
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Technical Specifications

Product Type	Closed loop linear	Sensed Current Type	ac or dc
Sensed Current Range	±1275 A	Package Type	Housed
Output Type	Current	Continuous Current	±1000 A
Operate Current	500 A RMS at 25°C	Supply Current	±20 mA + Output
Supply Voltage	±15.0 Vdc to ±18.0 Vdc	Offset Current	< ±0.2 mA

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Documents

View documents in: English

TITLE	DOCUMENT TYPE	LANGUAGE	SIZE
Current Sensors	Product Line Guide	English	870KB
Current Sensors	Product Range Guide	English	885KB

Product Features

- Current sensing up to 1275 amps (depending on product listing)
- Measures ac, dc and impulse currents
- Competitive cost/performance ratio
- Rapid response
- High overload capability
- High level of electrical isolation between primary and secondary circuits
- Industrial operating temperature range
- Small size and weight

Applications

- Variable speed drives
- Overcurrent protection
- Ground fault detectors
- Current feedback control systems
- Robotics
- UPS and telecommunication power supplies
- Welding power supplies
- Automotive - Battery management systems
- Wattmeters