# Honeywell

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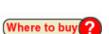
Speed, Position & Current

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# Honeywell Sensing and Control













Representative photograph, actual product appearance may vary.

- Dimensions
- Specifications
- Engineering Drawings On-Line

Click here for a print friendly version of this datasheet.

## CSNL281-006

CSN Series closed loop current sensor, measures AC, DC or impourrent, 300 A nominal,  $\pm$  750 amp range, Molex gold pin conn 2000 turn

#### **Features**

Current sensing up to 1200 amps
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

## **Typical 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

### **Description**

The CSN Series of closed loop current sensors are based on the princ the Magnetoresistive or Hall effects, and the null balance or zero magflux method (feedback system). The magnetic flux in the sensor core constantly controlled at zero. The amount of current required to bala zero flux is the measure of the primary current flowing through the conductor, multiplied by the ratio of the primary to secondary windin closed loop current is the output from the device and presents an image the primary current reduced by the number of secondary turns at any This current can be expressed as a voltage by passing it through a re-

Product Specifications	
Sensor Type	Closed Loop Linear
Sensed Current Type	ac or dc
Sensed Current Range	± 750 A
Package Style	PCB Attached
Output Type	Current

Maximum Continuous Current	± 400 A
Supply Current	± 22 mA + output
Supply Voltage	± 24.0 Vdc
Offset Current	< ± 0.3 mA
Offset Current Drift	< ± 0.5 mA
Coil Resistance @ 70 °C	25 Ohm
Response Time	< 0.5 μs
Coil Turns	2000
Output Nominal	150 mA
Operating Temperature Range	-40 °C to 85 °C [-40 °F to 185 °F]
Storage Temperature Range	-40 °C to 90 °C [-40 °F to 194 °F]
Minimum Measuring Resistance	20 Ohm
Maximum Measuring Resistance	80 Ohm
Housing Material	Unfilled PBT (UL94-V0)
Mounting	Panel
Pinout Style	Molex (3-way)
Accuracy	± 0.5 %
Availability	Global
Comment	Extended measuring range and gold pin Molex connect
UNSPSC Code	411121
UNSPSC Commodity	411121 Transducers
Series Name	CSN Series

Due to regional agency approval requirements, some products may not be available in your area. Please contact your regional Honeywell office regarding your product of choice.