Honeywell Sensing and Control



CSNP661



Actual product appearance may vary.

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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

Description

Potential Applications

- Variable speed drives
- Overcurrent protection
- Ground fault detectors
- Current feedback control systems

CSN Series closed loop current sensor, measures ac, dc or impulse current, 50 A nominal, ± 90 amp range, offset pin,

Robotics

1000 turn

- UPS and telecommunication power supplies
- Welding power supplies
- Automotive Battery management
- systems
- Wattmeters

The CSN Series of closed loop current sensors are based on the principles of the Magnetoresistive or Hall effects, 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.

Product Sp	ecifications
Product Type	Closed Loop Linear
Sensed Current Type	ac or dc
Sensed Current Range	±90 A
Package Style	Thru Hole PCB Mount
Output Type	Current
Maximum Continuous Current	±90 A
Nominal Operate Current @ 25 °C	50 A RMS
Supply Current	±10 mA + output

Supply Voltage	±12.0 Vdc to ±15.0 Vdc
Offset Current	< ±0.2 mA
Offset Current Drift	< ±0.5 mA
Coil Resistance @ 25 °C	30 Ohm
Response Time	< 0.5 µs
Coil Turns	1000
Output Nominal	50 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	70 Ohm
Maximum Measuring Resistance	195 Ohm
Housing Material	Glass-filled PBT (UL94-V0)
Mounting	PCB on 3 pins
Pinout Style	Offset
Accuracy	±0.5 %
Availability	Global
Comment	Larger thru hole.
UNSPSC Code	411121
UNSPSC Commodity	411121 Transducers
Series Name	CSN

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Honeywell	AT. LISTING	CSNP661	CSNP661-003	CSNP661-006	CSNT651	CSNG25 I	CSNF661	CSNF141	CSNT651-005	CSNR151-005	SNR161-004	CSNF65					CATALOGUE										