

Interactive Catalog Replaces Catalog Pages

Honeywell Sensing and Control has replaced the PDF product catalog with the new **Interactive Catalog**. The **Interactive Catalog** is a power search tool that makes it easier to find product information. It includes more installation, application, and technical information than ever before.



**Click this icon to try the new
Interactive Catalog.**

Sensing and Control

Honeywell Inc.

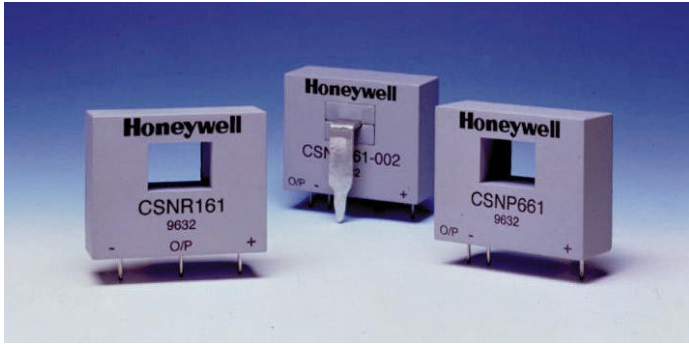
11 West Spring Street

Freeport, Illinois 61032

Solid State Sensors

Closed Loop Current Sensors

CSN Series



FEATURES

- Current sensing up to 1200 amps
- Measures AC, DC and impulse currents
- Lowest cost/performance ratio
- Rapid response, no overshoot
- High overload capacity
- High level of electrical isolation between primary and secondary circuits
- Small size and weight

CLOSED LOOP SENSORS

Closed loop current sensors measure AC, DC and impulse currents over 0-25, 0-50, 0-100, 0-600 and 0-1200 Amp ranges. The CSN Series is based on the principles of the Hall effect 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.

CATALOG NUMBER SYSTEM

PLEASE NOTE: This matrix is intended **only** to aid you in identifying sensor catalog listings. It is not all-inclusive, and **must not be used** to form new listings.

Example: CSNA111

CSN Closed Loop Current Sensor

Current Range (Peak/RMS nom.)

- A** ± 70 A/50 A rms nom.
- B** ± 100 A/50 A rms nom.
- C** ± 90 A/50 A rms nom.
- D** ± 22 A/15 A rms nom.
- E** ± 36 A/25 A rms nom.
- F** ± 150 A/100 A rms nom.
- J** ± 600 A/300 A rms nom.
- K** ± 1200 A/500 A rms nom.
- L** ± 600 A/300 A rms nom.
- M** ± 1200 A/500 A rms nom.
- P** ± 90 A/50 A rms nom.
- R** ± 200 A/125 A rms nom.
- T** ± 150 A/50 A rms nom.

Supply Voltage

- 1** ± 15 V
- 2** ± 13 V
- 3** ± 5 V
- 4** ± 12 V to 18 V
- 5** ± 15 V to 24 V
- 6** ± 12 V to 15 V

Coil Characteristics

- 1** 1:1000 turns/90 Ω @ 70°C
- 2** 1:2000 turns/160 Ω @ 70°C
- 3** 1:2000 turns/130 Ω @ 70°C
- 4** 1:1000 turns/50 Ω @ 70°C
- 5** 1:1000 turns/110 Ω @ 70°C
- 6** 1:1000 turns/30 Ω @ 70°C
- 7** 1:2000 turns/80 Ω @ 70°C
- 8** 1:2000 turns/25 Ω @ 70°C
- 9** 1:5000 turns/50 Ω @ 85°C

Housing Material

- 1** Polycarbonate/ABS blend