

Honeywell



Representative photograph, actual product appearance may vary.

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.

CSNE151

CSN Series closed loop current sensor, measures AC, DC or impulse current, 25 amp-turns nominal, ± 36 amp-turns range, smaller housing, 1000 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 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.



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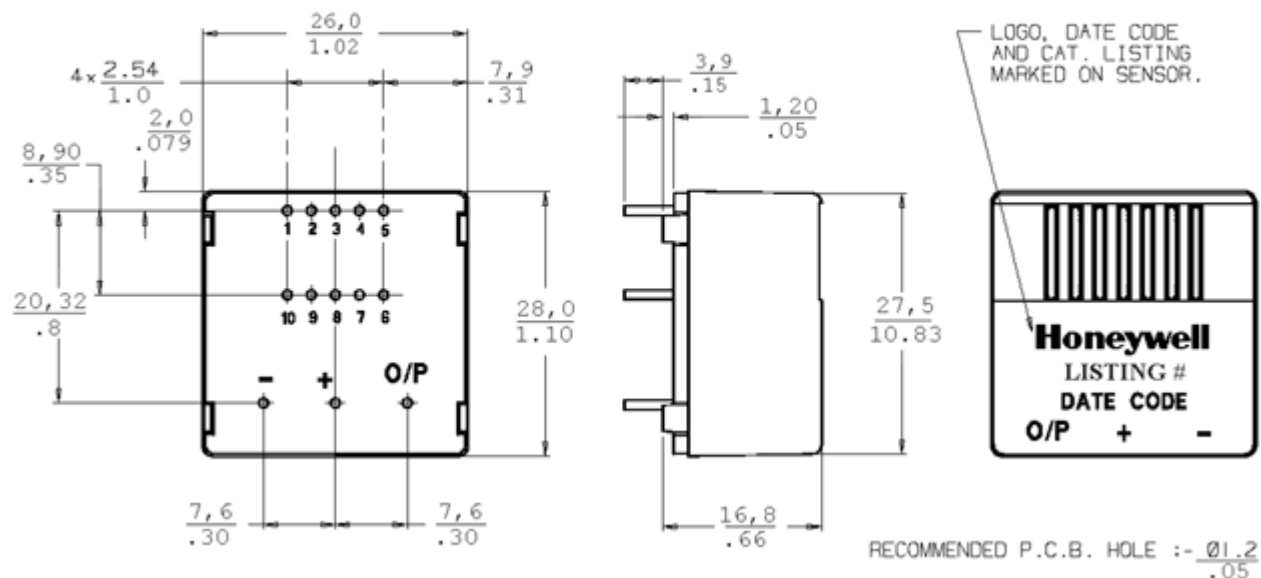
| Product Specifications | |
|-------------------------------------|---|
| Sensor Type | Closed Loop Linear |
| Sensed Current Type | ac or dc |
| Sensed Current Range | ± 36 A |
| Package Style | Series Connect PCB Mount |
| Output Type | Current |
| Maximum Continuous Current | ± 36 A |
| Supply Current | ± 10 mA + output |
| Supply Voltage | ± 15.0 Vdc |
| Offset Current | $< \pm 0.15$ mA |
| Offset Current Drift | $< \pm 0.6$ mA |
| Coil Resistance @ 70 °C | 110 Ohm |
| Response Time | < 1 μ s |
| Coil Turns | 1000 |
| Output Nominal | 25 mA |
| Operating Temperature Range | 0 °C to 70 °C [32 °F to 158 °F] |
| Storage Temperature Range | -40 °C to 90 °C [-40 °F to 194 °F] |
| Minimum Measuring Resistance | 100 Ohm |
| Maximum Measuring Resistance | 320 Ohm |
| Housing Material | Glass-filled PBT (UL94-V0) |
| Mounting | PCB on 13 pins |
| Pinout Style | 5 pin |
| Accuracy | ± 0.5 % |
| Availability | Global |
| Comment | Standard 25 A sensor with 5 integral primary turns. |
| UNSPSC Code | 411121 |
| UNSPSC Commodity | 411121 Transducers |
| Series Name | CSN Series |

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Mounting Dimensions - for reference only (mm/in)



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WARNING

PERSONAL INJURY

DO NOT USE these products as safety or emergency stop devices, or in any other application where failure of the product could result in personal injury.

Failure to comply with these instructions could result in death or serious injury.

WARNING

MISUSE OF DOCUMENTATION

- The information presented in this product sheet (or catalog) is for reference only. DO NOT USE this document as product installation information.
- Complete installation, operation and maintenance information is provided in the instructions supplied with each product.

Failure to comply with these instructions could result in death or serious injury.

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Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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