

CLOSED LOOP CURRENT SENSORS

CSNK Series

500 A rated current. ± 1200 A sensing current range. $< 1 \mu\text{s}$ response time. $\pm 0.5\%$ accuracy.

Overview



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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 Number

SKUs

SKU	DESCRIPTION
CSNK500M	CURRENT SENSORS
CSNK591	CSN Series closed loop linear current sensor, measures ac, dc or impulse current, 500 A nominal, ± 1200 A range, 5000 turns
CSNK591-001	CSN Series closed loop linear current sensor, measures ac, dc or impulse current, 500 A nominal, ± 1200 A range, busbar, 5000 turns

Honeywell

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CSNK Series

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