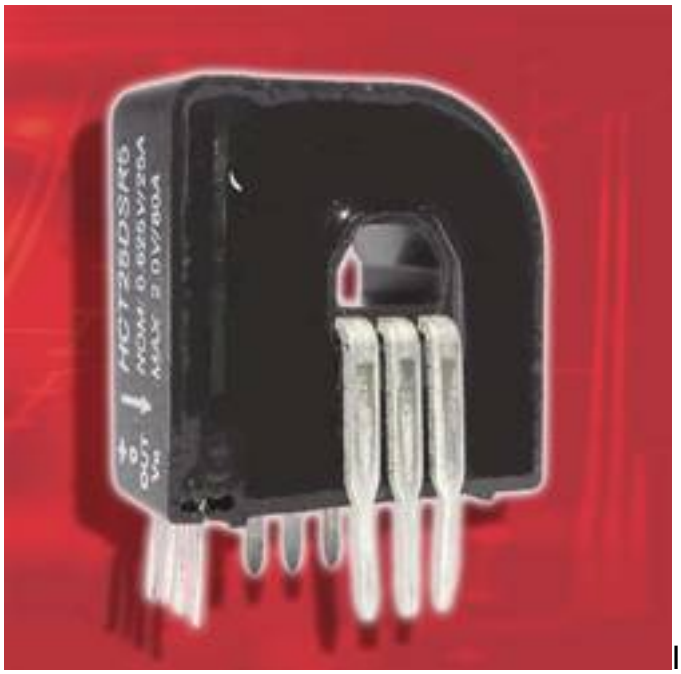
PREMO Unveils Hall Effect Sensors with Input Reference Pin



In the will of continuous customer support, Premo has introduced a new series of Hall Effect sensors called DSR5 series. A new series designed for a single supply voltage of +5V.

DSR5 family is a close loop technology component in a very small package for THT mounting. Primary winding is already integrated, which allows to measure DC, AC and pulse currents on printed circuit boards.

Key characteristic of this series is that includes an external pin that allows access to the internal reference (2.5V). This pin can be used as an output or input signal to be used by microcontrollers providing better offset control at cero current.
This series has been designed for nominal currents of 6, 15, 25 and 50Amps. The multi-pin configuration allows different range of nominal currents by connecting 1, 2 or 3 pins in the primary winding.

The output signal is centered at 2.5V with an output voltage of ±0.625 V at nominal input currents, but the design allows detecting currents up to 3 times nominal current.

It also provides a linearity <0.1% with a ±0.7% accuracy levels. Bandwidth is up to 150 kHz with a response time below 0.5us. Offset drift versus temperature is as low as 0.3% mV/ºC and consumption of the circuit is only 20mA at no current condition.

The current sensor is specially designed to meet the highest safety requirements. It is fully isolated with plastic housing, meeting isolation values higher than 3000 Vac.

It is fully compliant to below industrial standards:
• Isolated plastic case recognized according to UL94-V0
• EN 60947-1:2004
• EN 60950-1:2001
• EN 50178:1998

For more information please visit, www.grupopremo.com [1]

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[1] http://www.grupopremo.com