NA-25 and NAP-25

Open Loop Hall Effect

Description

The NA-25 and NAP-25 Hall effect current sensors accurately measure DC and AC currents and provide electrical isolation between the output of the sensor and the current carrying conductor.



Measuring Circuit Full Scale (FS) DC or AC peak (1)	Units + A	NA-25	25
Full Scale output (2)		2	22.5 to 62.5 —
Excitation Circuit Nominal excitation current (Ic) Maximum excitation current (Ic) Input resistance	mA		7 10 450 to 900
Output Sensitivity (2) Linearity Maximum zero offset Maximum hysteresis of offset (3) Minimum load resistance Output resistance Frequency Response	%FS <u>+</u> mV <u>+</u> mV k ohms ohms		0.9 to 2.5
Influences On Accuracy Maximum offsetdrift with temperature Excitation change of ±1% Max. sensitivity change Maximum sensitivity drift with temperature	<u>+</u> %		40 1 0.07
Withstand Capabilities Dielectric test(4) Output short or open			— 0.5 —
General Information Operating temperature range Storage temperature range Aperture opening Current carrying conductor diameter (12 AWG) Weight Output short or open circuit Output reference	°C inches (mm) inches (mm) grams Conventional	3.4	



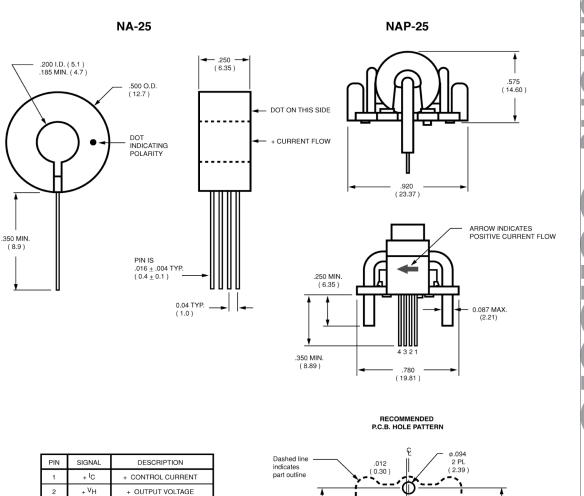
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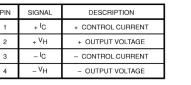


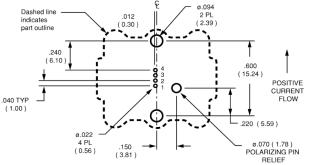
Rev. date 04/2003

All dimensions are in inches (millimeters)

Models NA-25/NAP-25







Notes:

- With a duty cycle less than 30% (conductor limited), linearity to 100 A Full Scale is 1% F S. 1.
- At a nominal control current of 7 mA. 2.
- Hysteresis specifications given for a Full Scale aperture current remnant. 3.
- 4. The dielectric test consists of 0.5 kVac at 60 Hz for one minute between a bare 0.10 inch diameter conductor and the output of the sensor.
- 5. Due to continuous process improvement, all specifications are subject to change without notice.



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