



RAZCL-603SHBG

*High Performance, 2% Calibrated, Low Remanence,
60A Current Sensor*

Break-through performance from a new generation of precision Hall Effect Current Transducer through the selection of state-of-the-art materials. This 2% calibrated device gives excellent linearity, thermal stability and negligible hysteresis without compromising size.

These features allow currents from fractions of an amp to 60 amps to be accurately measured.

This version includes an extended supply voltage of 3V to 5.5V.

Rev 1.1



Maximum Ratings ($T_A = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Operating Temperature	T_A	-30 to +100	$^\circ\text{C}$
Storage Temperature	T_{stg}	-40 to +125	$^\circ\text{C}$
Supply Voltage	V_s	6	V
Measured Current	I_m	Limited only by conductor	A



Characteristics ($T_A = 25^\circ\text{C}$), 5.0V Supply (3.3V supply)

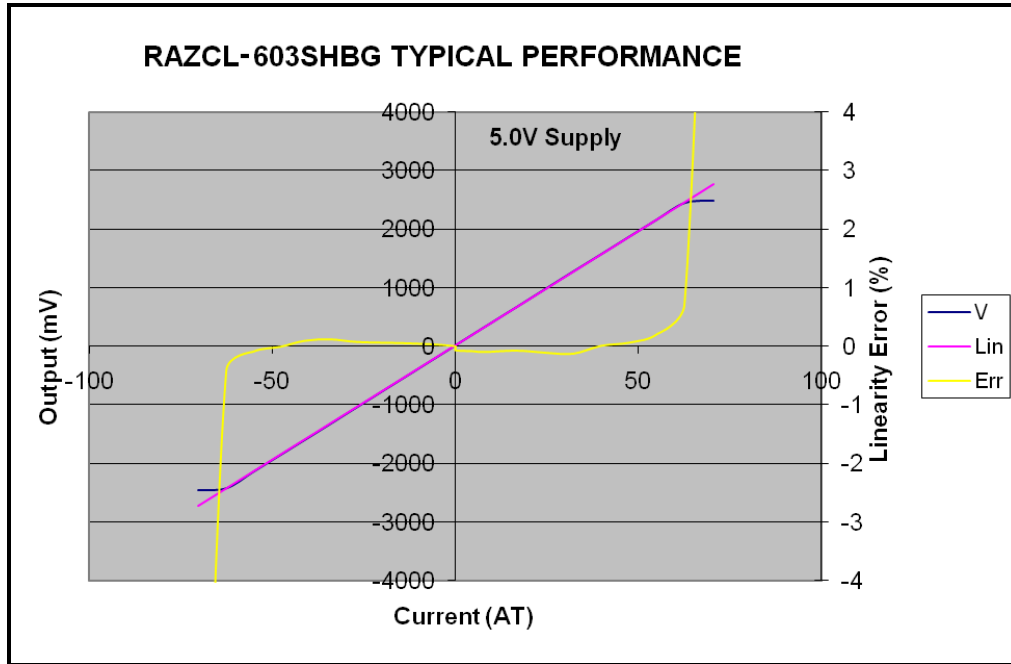
Parameter	Symbol	Lower Limit	Typical	Upper Limit	Unit
Supply Current	I_s		9.2	12	mA
Supply Voltage	V_s	3.0	5.0	5.5	V
Null Output ($V_s = 5V$) ($V_s = 3.3V$)	V_o	2.35 (1.55)	2.5 (1.65)	2.65 (1.75)	V
Transfer Function (per turn) * ($V_s = 3.3V$)	$\Delta V/I$	39.2 (25.8)	40 (26.4)	40.8 (27.0)	mV/A
Linear current range	I_{m1}		+/-60		A
Linearity ($\pm 80\% I_m$)			0.1	0.2	%
Hysteresis (0 to 100% I_m)	Hys		10	33	mA
Null drift due to temperature change ($V_s = 3.3V$)	$TC_{\Delta V_o/V_o}$		+/-0.07	+/-0.5 (+/-0.35)	mV/K
Gain Change due to temperature change	TC_G		+/-0.05		%/K
Risetime (10% to 90% of I_m)	T_r		2		μs
Frequency Response (-3dB)	f_{-3dB}		200		kHz
Output Resistance	R_o			1	Ω
Output Noise (peak-to-peak)	V_n		5		mV

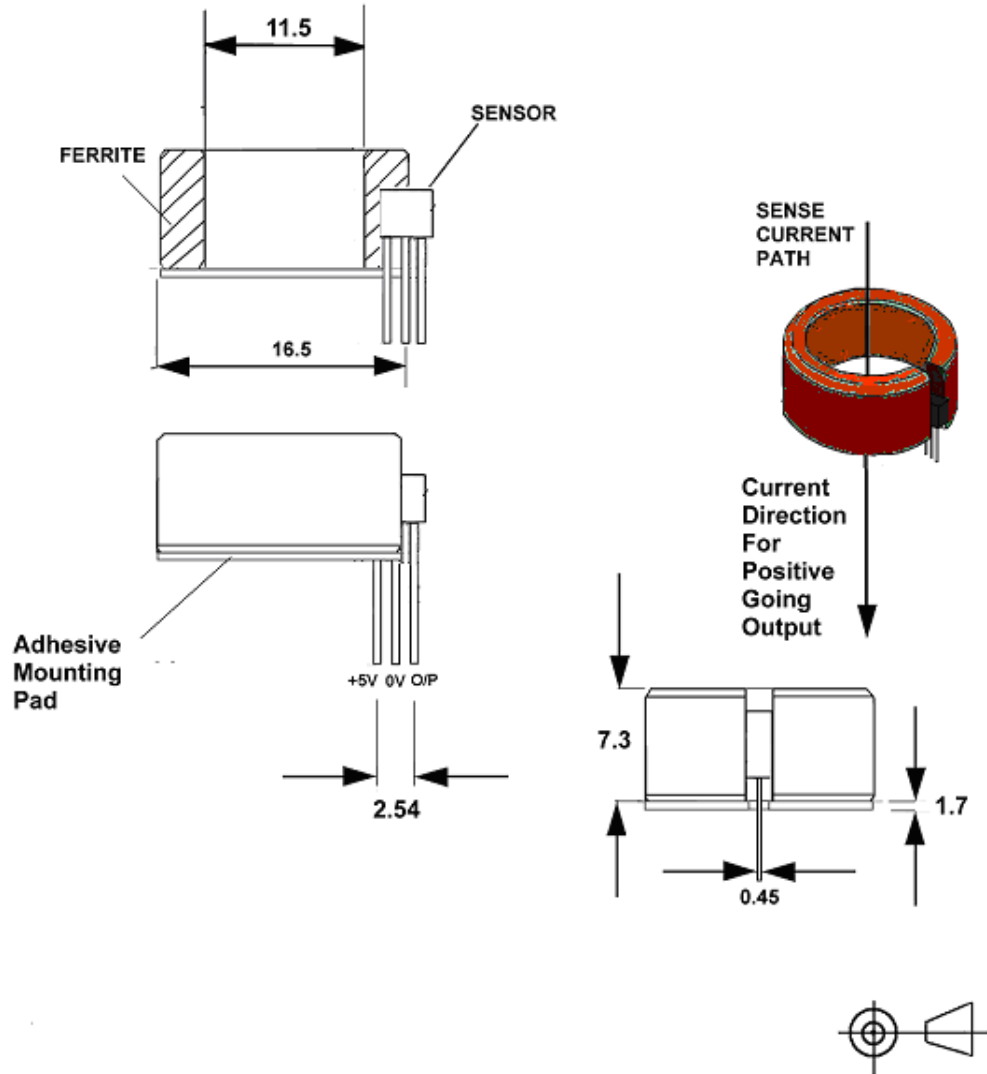
* Sensitivity may be increased by adding primary turns.

Higher current versions available to 200 amps.



Performance Characteristics





MECHANICAL DIMENSIONS



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