



## RAZCL-603SHAG

### 60A, 2% Calibrated Current Sensor

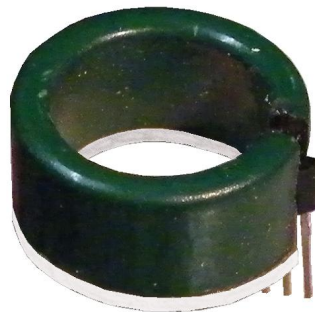
*An economical, high performance, 2% calibrated, precision Hall Effect Current Transducer with excellent linearity and thermal stability without compromising size. Its high speed allows accurate measurement of high frequency currents and transients.*

*The addition of primary turns gives very good low current performance.*

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

*This product is very appropriate for measuring true phase current in brushless motors particularly for precision servo applications.*

**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	$T_{\text{stg}}$	-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)

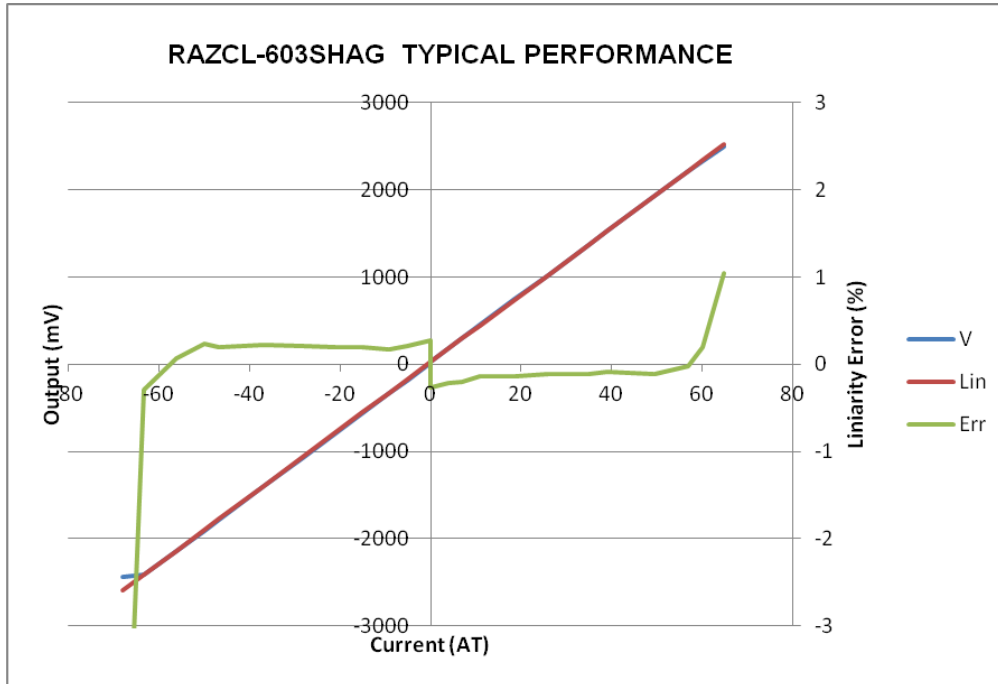
Parameter	Symbol	Lower Limit	Typical	Upper Limit	Unit
Supply Current	$I_s$		9.2	12	mA
Supply Voltage	$V_s$	3.0	5.0	5.5	V
Null Output ( $V_s = 5V$ ) ( $V_s = 3.3V$ )	$V_o$	2.35 (1.55)	2.5 (1.65)	2.65 (1.75)	V
Transfer Function (per turn) * ( $V_s = 3.3V$ )	$\Delta V/I$	39.2 (25.8)	40 (26.4)	40.8 (27.0)	mV/A
Linear current range	$I_{m1}$		+/-60		A
Linearity ( $\pm 80\% I_m$ )			0.2	0.4	%
Hysteresis (0 to $100\% I_m$ )	Hys		120	150	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		$\mu\text{s}$
Frequency Response (-3dB)	$f_{-3dB}$		200		kHz
Output Resistance	$R_o$			1	$\Omega$
Output Noise (peak-to-peak)	$V_n$		5		mV

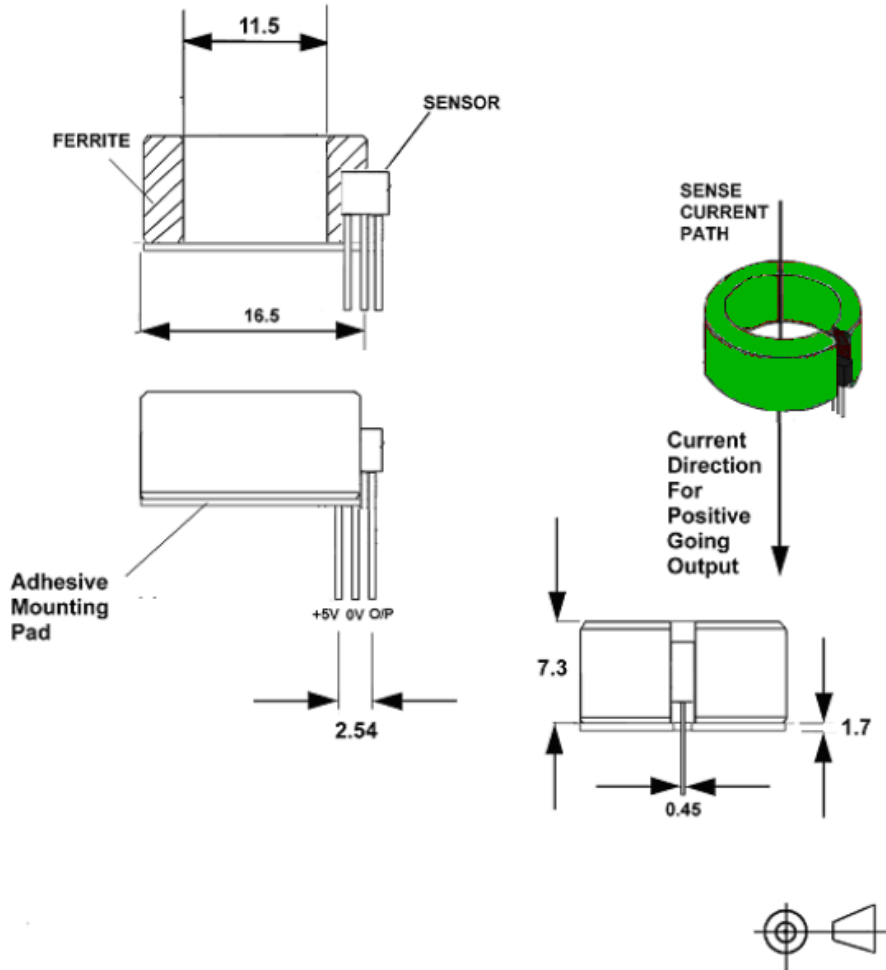
\* Sensitivity may be increased by adding primary turns.

Higher current versions available to 200 amps.



## Performance Characteristics





### MECHANICAL DIMENSIONS



## We are here for you. Addresses and Contacts.

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### Headquarter Switzerland:

Angst+Pfister Sensors and Power AG  
Thurgauerstrasse 66  
CH-8050 Zurich  
Phone +41 44 877 35 00  
[sensorsandpower@angst-pfister.com](mailto:sensorsandpower@angst-pfister.com)

### Office Germany:

Angst+Pfister Sensors and Power Deutschland GmbH  
Edisonstraße 16  
D-85716 Unterschleißheim  
Phone +49 89 374 288 87 00  
[sensorsandpower.de@angst-pfister.com](mailto:sensorsandpower.de@angst-pfister.com)

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