RAZTEC (NZ) LIMITED

ISO 9001 – 2008

RAZTEC MOULDED CURRENT SENSOR

RAZFL-105FQCG

PERFORMANCE CHARACTERISTICS

High performance, compact cable mounted current sensor for installation into rugged environments where a fully sealed product is required to assure reliability. The device is 1000A rated, cannot be damaged by overload and is compatible with computer systems with its single 5V supply requirement.

CONFIGURATION

Maximum Ratings (Ta = 25℃)

Parameter	Symbol	Value	Unit
Operating Temperature	T_A	-40 to +85	°C
Storage Temperature	T_{stg}	-65 to +100	°C
Supply Voltage	V_s	8	V
Output sinking current	I_o	10	mA
Measured Current	I_m	Limited only by conductor	A

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Characteristics (T_A = 25℃, Vs = 5V)

Parameter	Symbol	Lower Limit	Typical	Upper Limit	Unit
Supply Current	Is		9.2	12	mA
Supply Voltage	Vs	4.5	5.0	5.5	V
Current Range for < ±1% error (-25 to +85°C)	I_m	±1000			A
Null Output	Vo	2.49	2.50	2.51	V
Transfer Function (per turn, primary conductor centred)	ΔV/I	1.96	2.0	2.04	mV/A
Combined non-linearity and hysteresis error (±1000A, -25 to +85°C)			0.5	1.5	%
Output error due to 15mm diameter wire position			+/-1.0	+/-1.5	%
Hysteresis (0 to 1000AT)	Hys		0.1		%
Null drift due to temperature change	$TC_{\Delta Vo/Vo}$			±0.25	mV/K
Gain Change due to temperature change	TC_G	-0.1	+0.1	0.18	%/K
Power-on settling time to 99%	t_{po}		30		µs
Risetime (10% to 90% of full scale)	t_r		5.5		µs
Response time (90% primary to 90% output)	$t_{RESPONSE}$		7		µs
Frequency Response	f_{-3dB}		50		kHz
Output Resistance	R_o		1		Ω
Electrical Isolation	V_d	600			V

NOTE: For best accuracy, centre primary conductor in aperture.

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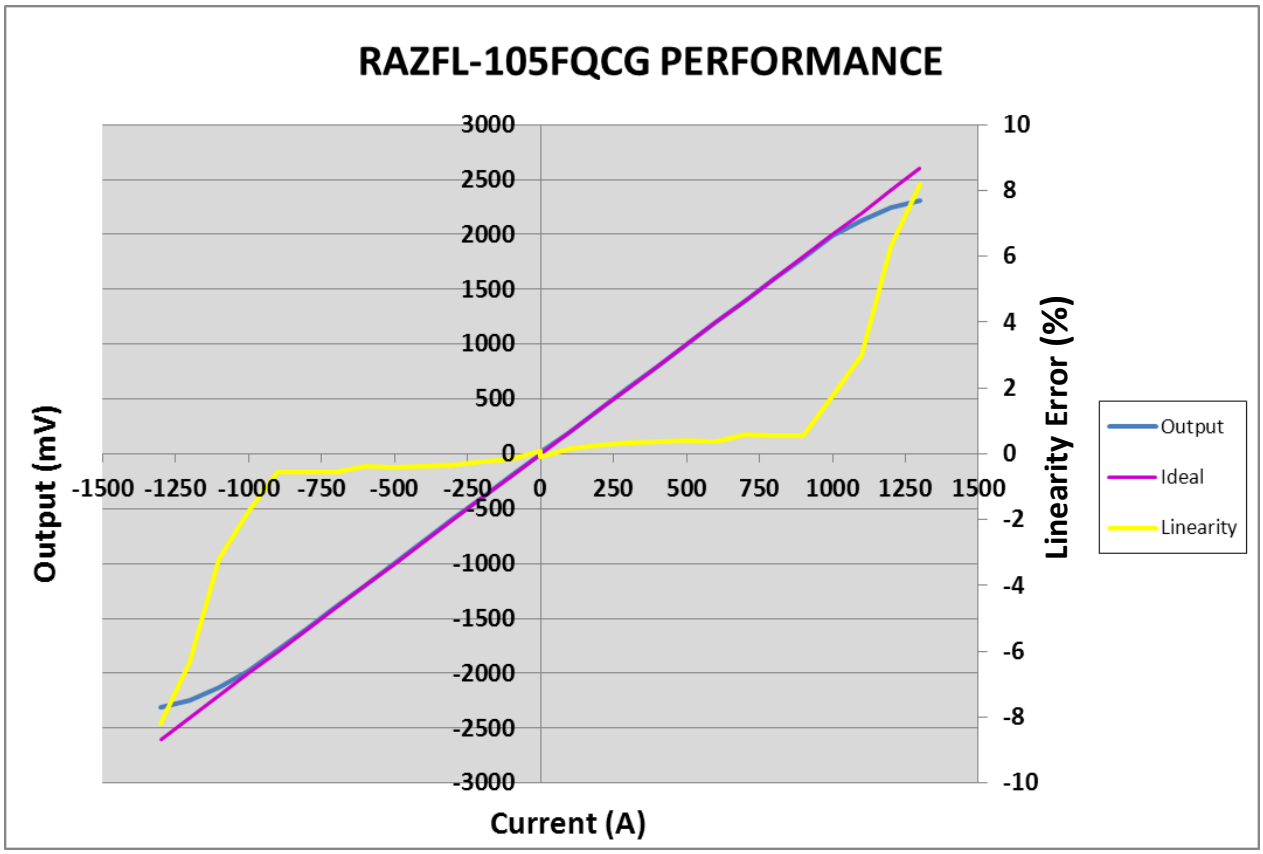

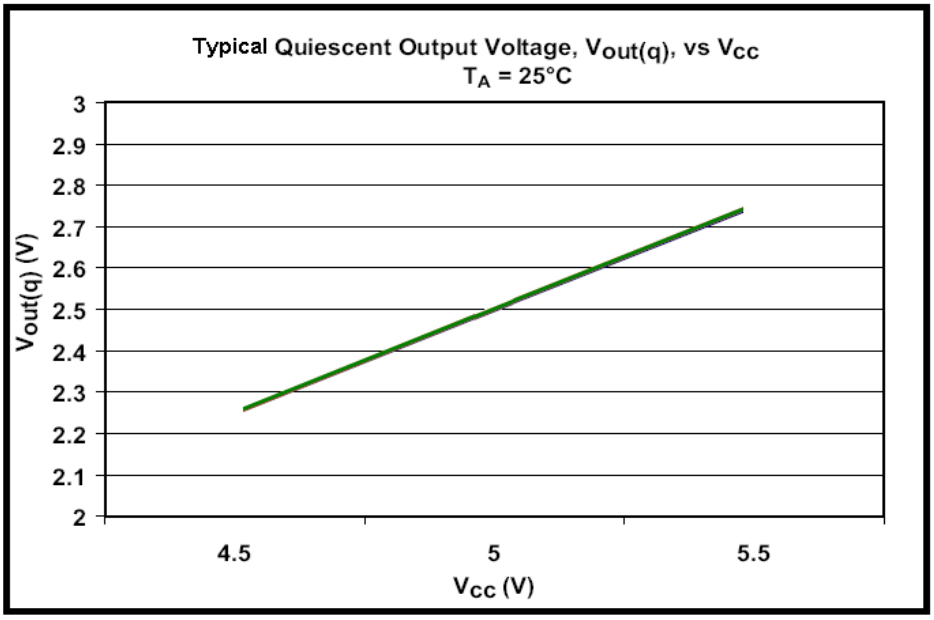

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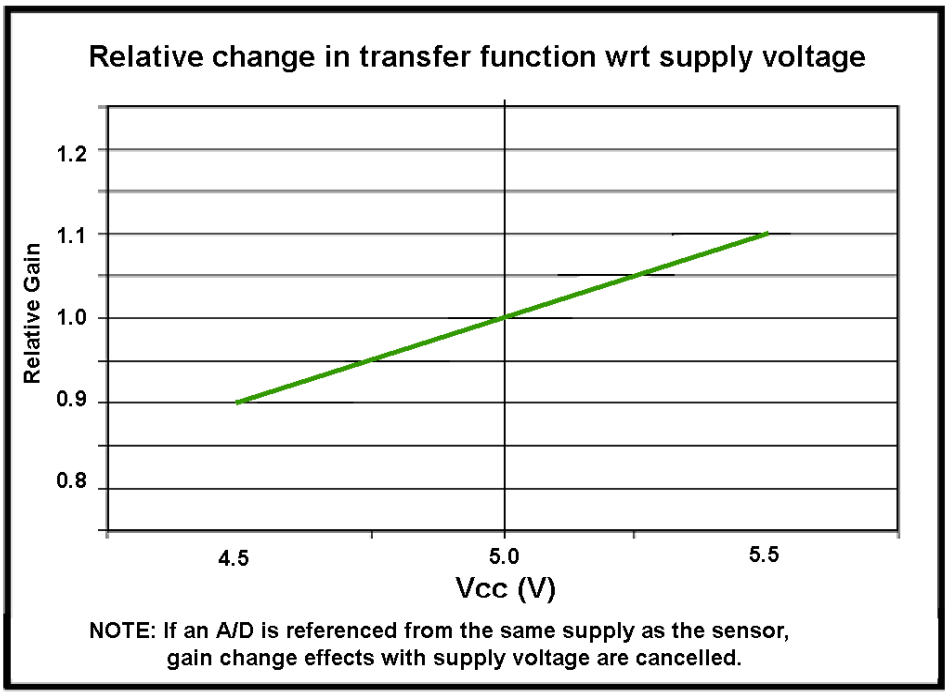

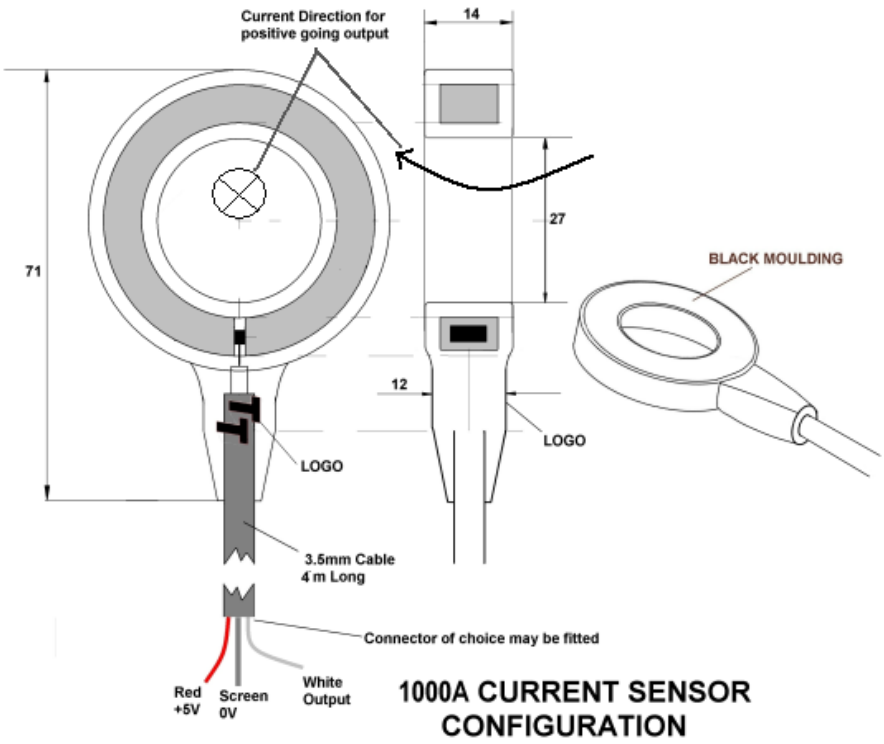

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WARNING: Keep this product away from harsh chemical substances including cold cleaning agents, methylated spirits, FAM test spirits and battery acid.

RoHS 2002/95/EC

Raztec (NZ) Ltd operates a continuous product improvement program, therefore information contained in our datasheets may not reflect all current features. For clarification please contact sales@raztec.co.nz

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