



RAZTEC MOULDED CURRENT SENSOR RAZC-2-FL500

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 500A rated, cannot be damaged by overload and is compatible with computer systems with its single 5V supply requirement.



CONFIGURATION

Maximum Ratings (Ta = 25°C)

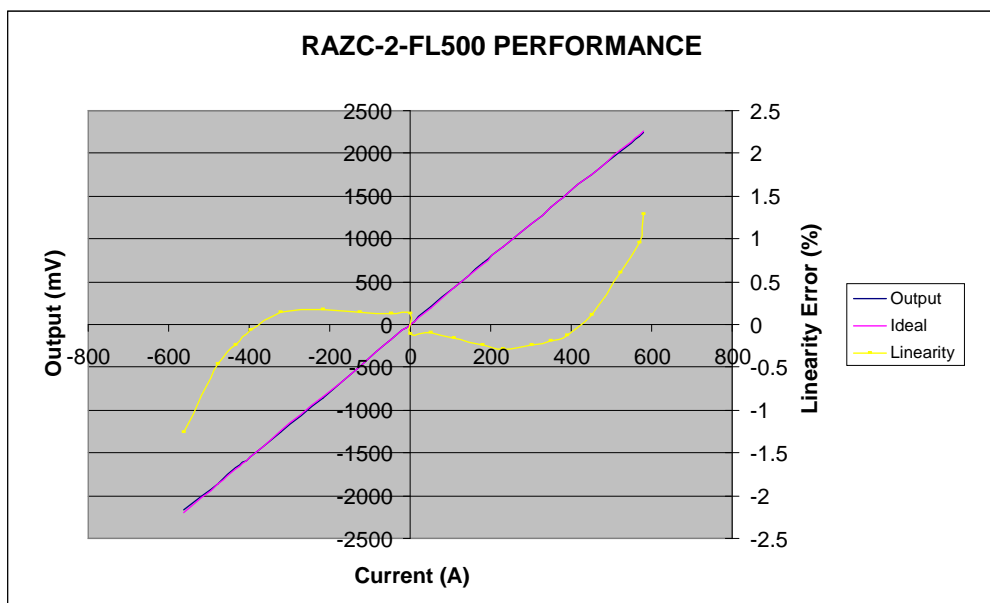
Parameter	Symbol	Value	Unit
Operating Temperature	T_A	-40 to +85	°C
Storage Temperature	T_{stg}	-65 to +100	°C
Supply Voltage	V_s	8	V
Output sinking current	I_o	10	mA
Measured Current	I_m	Limited only by conductor	A

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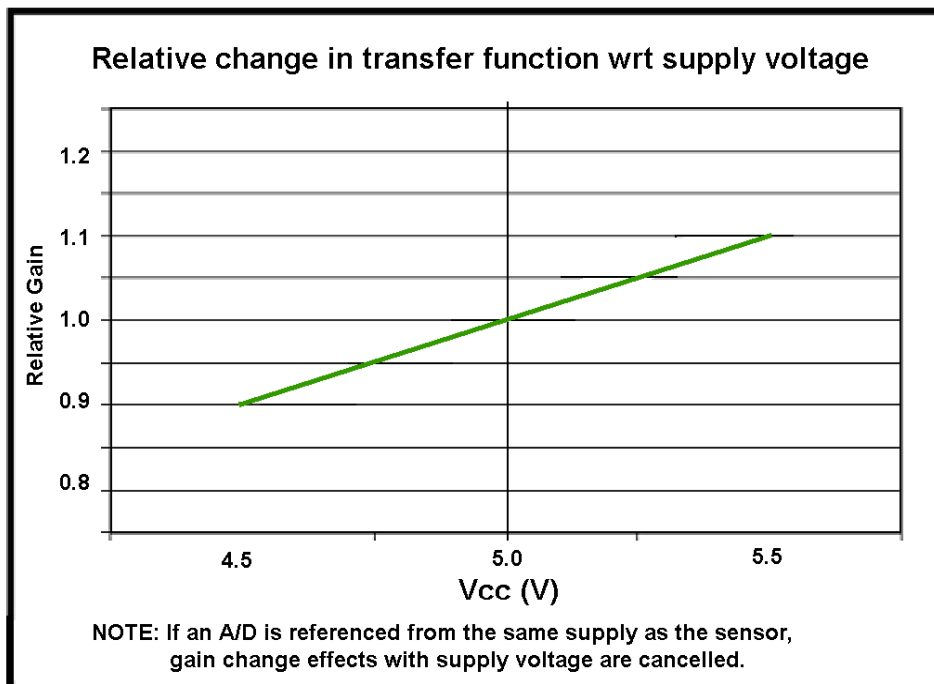
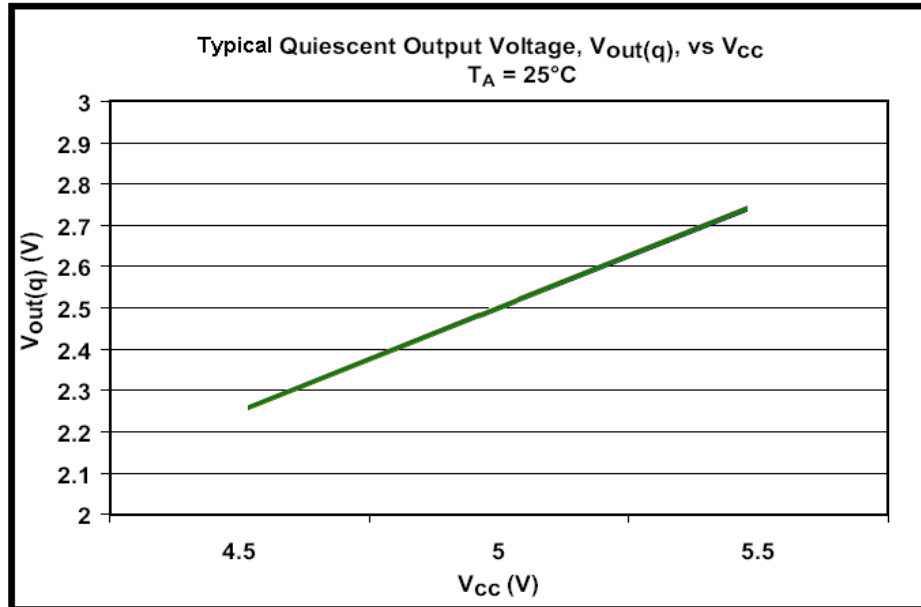


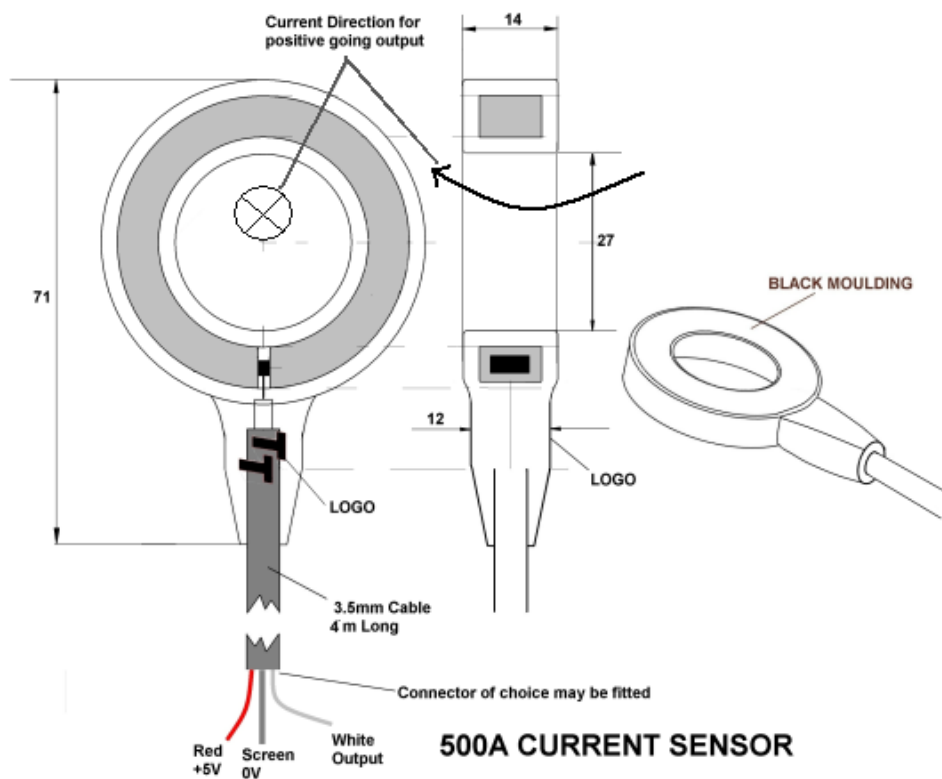
Characteristics ($T_A = 25^\circ\text{C}$, $V_s = 5\text{V}$)

Parameter	Symbol	Lower Limit	Typical	Upper Limit	Unit
Supply Current	I_s		9.2	12	mA
Supply Voltage	V_s	4.5	5.0	5.5	V
Current Range for $\pm 1\%$ error (-25 to +85°C)	I_m	± 500			A
Null Output	V_o	2.49	2.50	2.51	V
Transfer Function (per turn)	$\Delta V/I$	3.92	4.0	4.08	mV/A
Combined non-linearity and hysteresis error ($\pm 500\text{A}$, -25 to +85°C)			0.5	1.5	%
Output error due to 10mm diameter wire position			± 0.5	± 1.0	%
Hysteresis (0 to 500AT)	Hys		0.1		%
Null drift due to temperature change	$TC_{\Delta V_o/V_o}$			± 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}			15	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	$f_{-3\text{dB}}$		50		KHz
Output Resistance	R_o		1		Ω
Electrical Isolation	V_d	600			V



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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.



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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