



Low Current Series

Maximum Ratings (TA = 25 °C)

Parameter	Symbol	Value	Unit
Operating temperature	TA	-40 to +125	°C
Storage temperature	Tstg	-65 to +150	°C
Supply voltage	Vs	8	V
Output sinking current	Io	10	mA
Measured current	Im	Limited only by conductor	A



RAZV-2

Characteristics

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

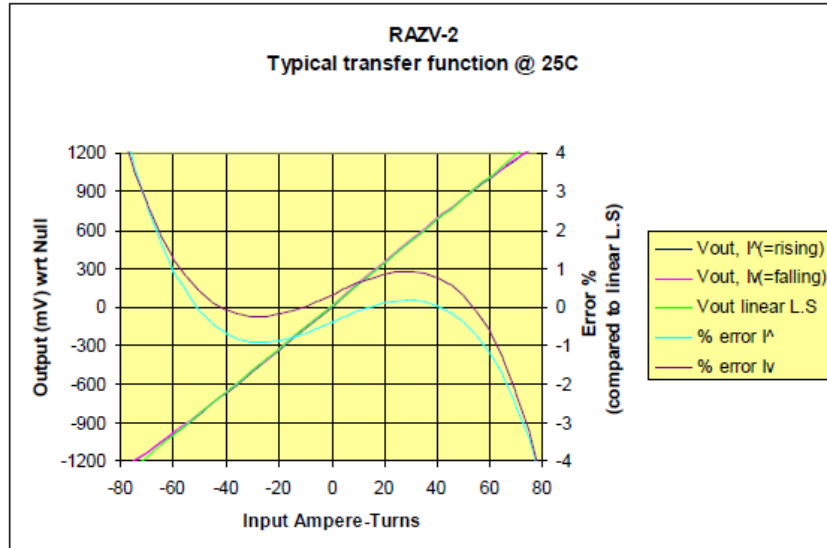
Parameter	Symbol	Lower Limit	Typical	Upper Limit	Unit
Supply current (no load)	I_S			11^{-1}	mA
Supply voltage	V_S	4.5	5.0	6.0	V
Current range for $<\pm 1\%$ error (-25 to $+90^\circ\text{C}$)	I_m	± 60			A
Power on settling time to 99%	t_{po}			15	μs
Null output voltage	V_o	2.4	2.5	2.6	V
Turns RAZV040-2 $\pm 15\text{A}$	T	4	4	4	
Turns RAZV040-2 $\pm 15\text{A}$	T	6	6	6	
Turns RAZV040-2 $\pm 15\text{A}$	T	12	12	12	
Turns RAZV040-2 $\pm 15\text{A}$	T	59	60	61	
Turns RAZV040-2 $\pm 15\text{A}$	T	295	300	305	
Turns RAZV040-2 $\pm 15\text{A}$	T	1480	1500	1520	
Transfer function RAZV040-2	$\Delta V/I$	52	68	88	mV/A
Transfer function RAZV060-2	$\Delta V/I$	78	102	132	mV/A
Transfer function RAZV120-2	$\Delta V/I$	156	204	264	mV/A
Transfer function RAZV600-2	$\Delta V/I$	767	1020	1342	mV/A
Transfer function RAZV301-2	$\Delta V/I$	3835	5100	6700	mV/A
Transfer function RAZV152-2	$\Delta V/I$	19,200	25,500	33,450	mV/A
Approx. resistance RAZV040-2			0.001		Ω
Approx. resistance RAZV060-2			0.002		Ω
Approx. resistance RAZV120-2			0.01		Ω
Approx. resistance RAZV600-2			0.16		Ω
Approx. resistance RAZV301-2			4		Ω
Approx. resistance RAZV152-2			120		Ω
Non-linearity ($\pm 50\text{AT}$, -25 to $+90^\circ\text{C}$)				1.0	%
Hysteresis ($\pm 50\text{AT}$)	Hys			0.5	%
Null drift due to temperature change	$\frac{TC}{\Delta V_o/V_o}$	-		± 0.25	mV/k
Gain change due to temperature change	TCG	-0.1	0.1	0.18	%/K
Risetime (0 to 20 AT)	t_r			14	μs
Frequency response	f-3dB		35		kHz
Output resistance	R_o		2	5	Ω

*Tighter specifications available on request

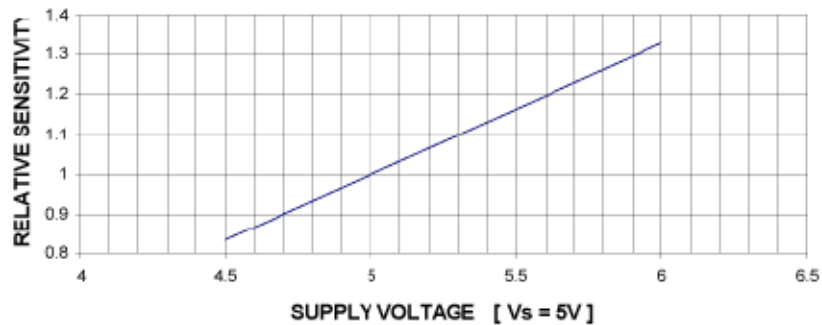


Raztec Sensors
NEW ZEALAND LTD

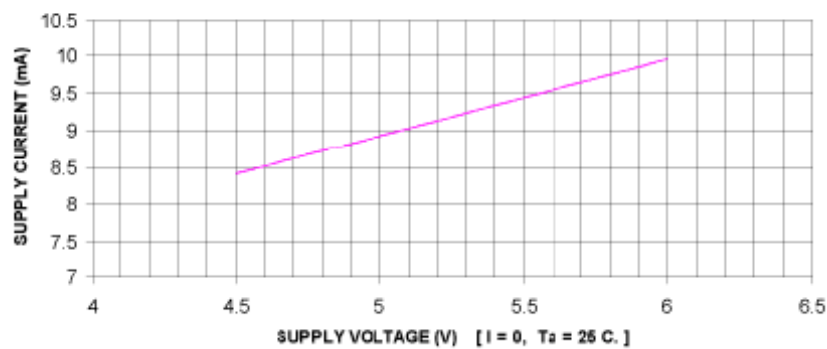
Characteristics



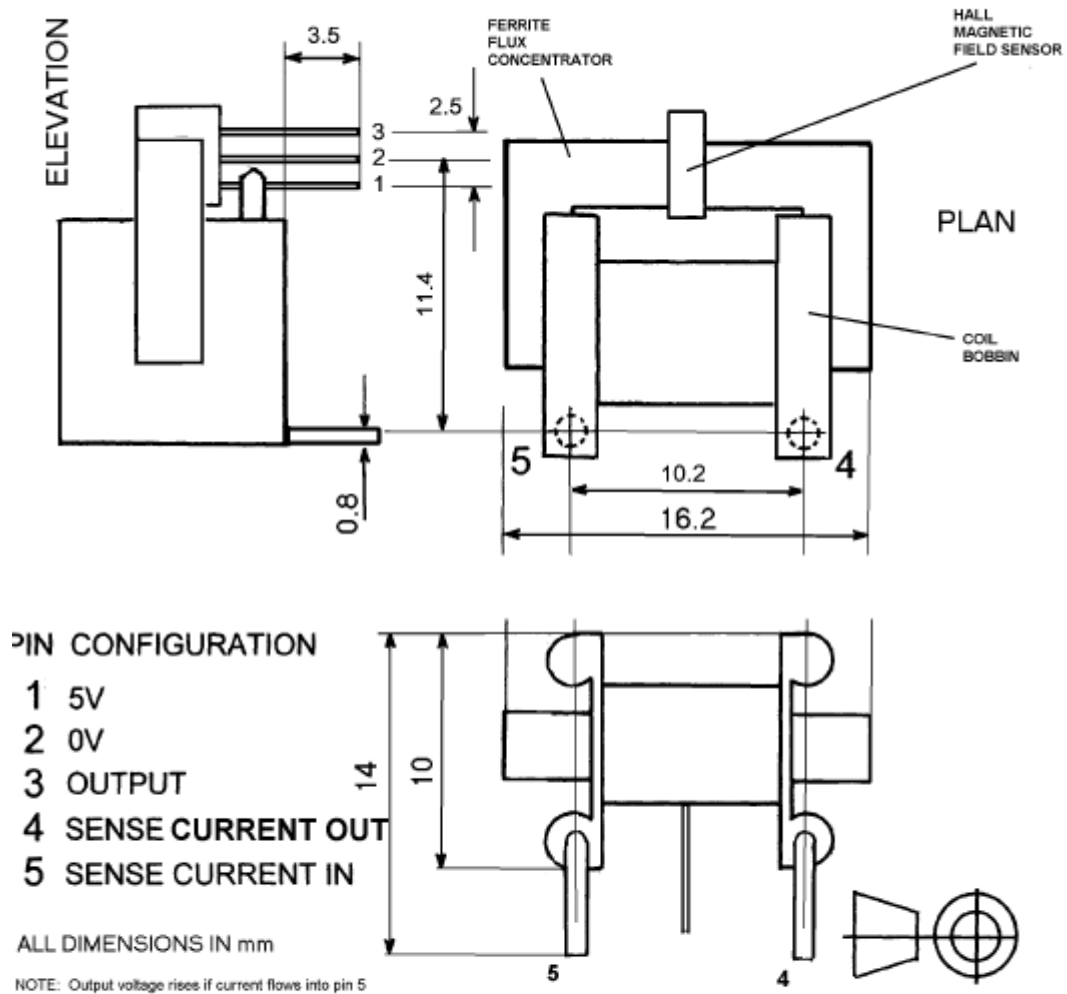
DEVICE SENSITIVITY AS A FUNCTION OF SUPPLY VOLTAGE



SUPPLY CURRENT AS A FUNCTION OF SUPPLY VOLTAGE

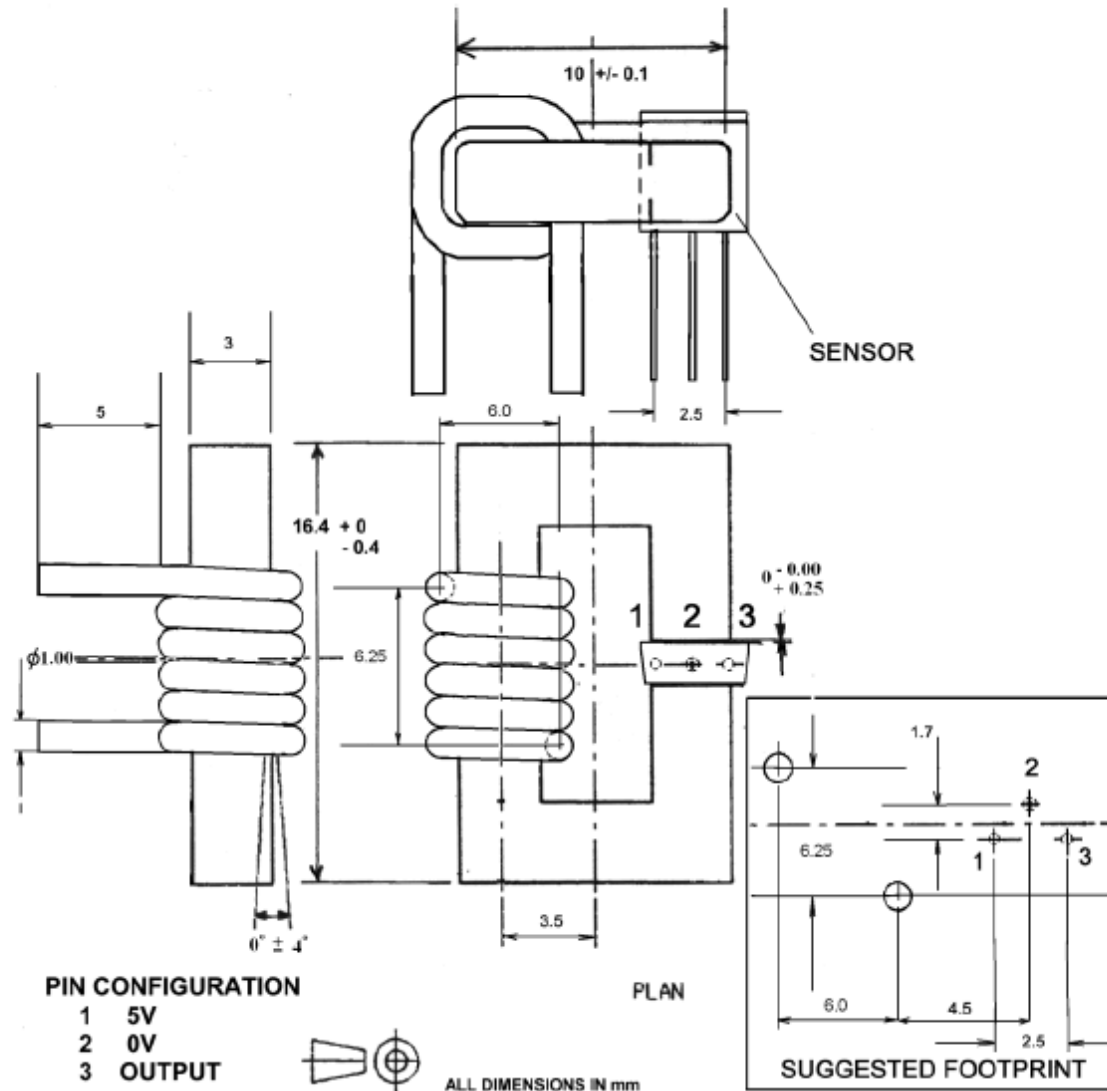


Physical Properties



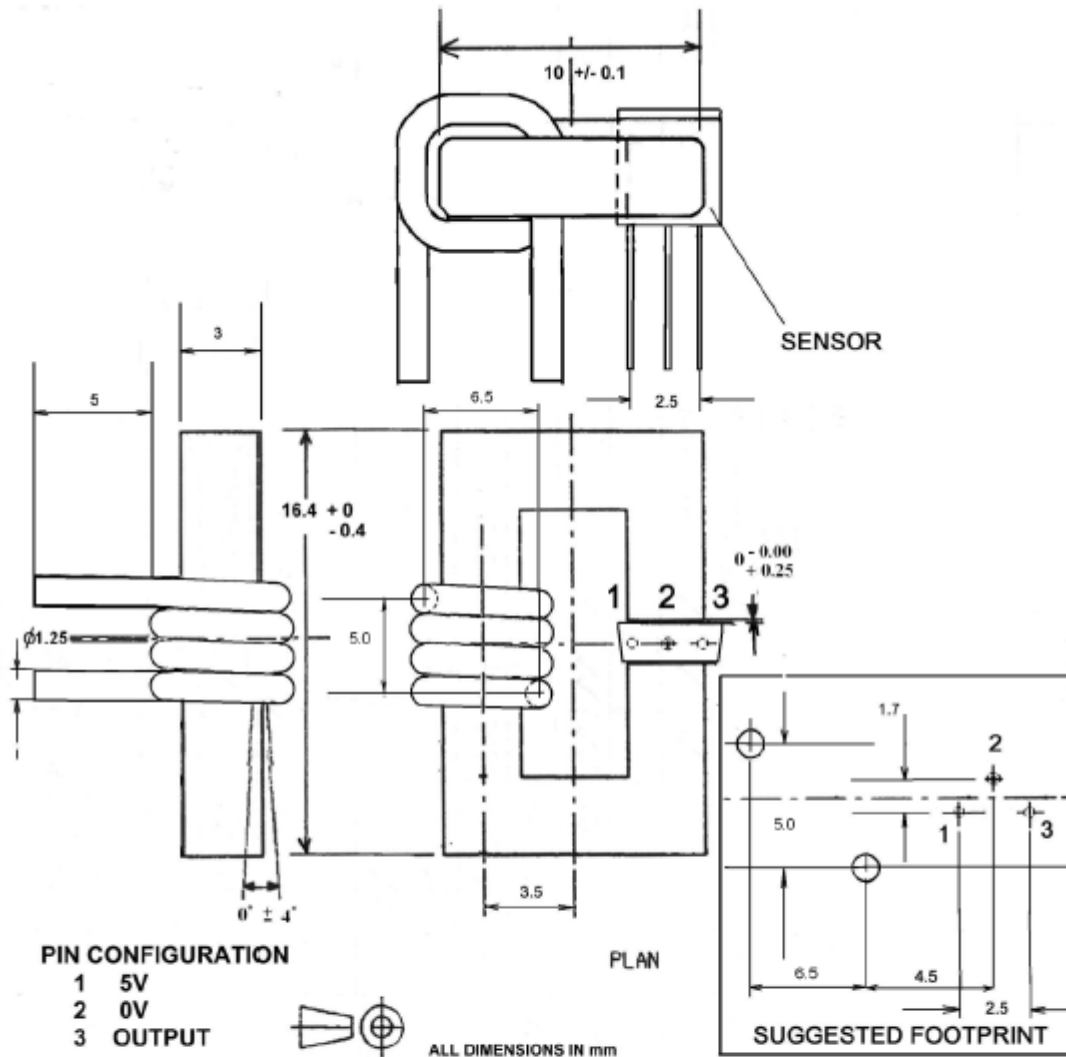
PRODUCT: RAZ VxyzH		SCALE: NTS	DRG # 200805
RAZTEC (NZ) LTD		DATE: 17th February 1999	
		DRAWN: WP	CHECKED: REVISION: 1.0





PRODUCT: RAZV060-2		SCALE: NTS	DRG #
RAZTEC (NZ) LTD		DATE: 1 August 2014	1611
DRAWN: SB	CHECKED:	REVISION: 1.2	





PRODUCT: RAZV040-2		SCALE: NTS	DRG #
RAZTEC (NZ) LTD		DATE: 1 August 2014	3514
		DRAWN: SB	CHECKED: REVISION: 1.2



Raztec New Zealand 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



Raztec Sensors
NEW ZEALAND LTD

Custom Current Sensing Solutions

About Raztec

Raztec Sensors was formed in 1992 and since then have been designing, manufacturing and supplying Hall Effect current transducers to some of the world's most critical and demanding users.

Over the past twenty-plus years many millions of our current transducers have been designed into failure intolerant applications where Raztec's refusal to accept anything other than the very highest standard of manufacturing excellence (ISO9001:2015 approved) has resulted in a reputation that is the envy of companies significantly larger and perhaps better known.

Who are our customers?

Raztec Sensors are recognized by many of our customers for our ability to provide top-quality performance at a very effective market price. Working with clients such as Dunkermotoren/AMETEK, Siemens, Wrightspeed, Komatsu, Panasonic Electric Works, Marinco, Techna-Tool, Metropolitan Pumps, Dynamic Controls, has provided us the opportunity to engineer solutions that are specific to our clients' application. This has resulted in a current transducer that provides exactly the output required for perfect control of the customer's specific application - at the most competitive price possible.

Need a custom solution?

Raztec are specialists in designing customised Hall Effect current sensors to suit almost any type of application. A large proportion of the products we sell are customised towards our customer's needs. If you have a particular need that an off-the-shelf sensor just can't meet, then contact us about designing a current sensor to meet your requirements.

Raztec Sensors was formed in 1992 and since then have been designing,



Raztec Sensors
NEW ZEALAND LTD

Custom Current Sensing Solutions