PROVISIONAL



Compact Current Transducer

This Hall Effect Current Transducer is distinctive for its very small size, high current capability, very high speed and ability to operate with supplies between 3V and 5.5V.

RAZ parts can replace closed-loop current sensors in many applications.

Maximum Ratings (TA = 25 °C)

Parameter	Symbol	Value	Unit
Operating temperature	TA	-40 to +100	°C
Storage temperature	Tstg	-40 to +125	°C
Supply voltage	Vs	6	V
Output sinking current	Io	1.2	mA
Measured current	Im	Limited only by conductor	А



RAZC-204XUCN

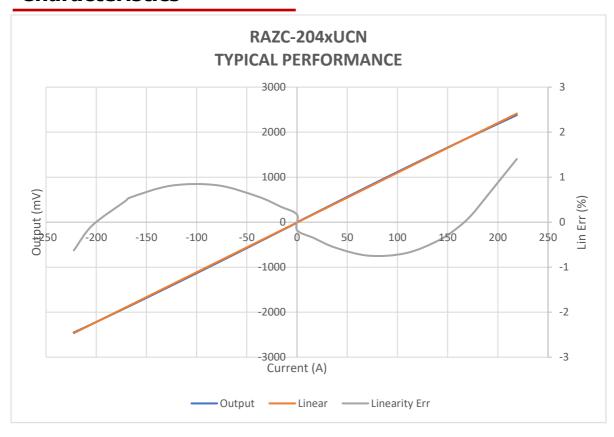
Characteristics

 $(TA = 25 \,^{\circ}C, \ VS = 5V (3.3V))$

Parameter	Symbol	Lower Limit	Typical	Upper Limit	Unit
Supply current (no load)	Is		9	12	mA
Supply voltage	Vs	3.0	5.0	5.5	V
Current range for <±1% error (-25 to +85°C)	Im	±200			А
Null output	Vo	2.4 (1.58)	2.5 (1.65)	2.6 (1.72)	V
Transfer function (per turn 25 to +85°C)	ΔV/Ι	8.4 (5.5)	11.3(7.3)	14.2 (9.3)	mV/A
Combined non-linearity and hysteresis error (±250A, -25 to +85°C)				1.0	%
Null drift due to temperature change	ΤС Δ۷ο/۷ο		.07	±0.5 (0.35)	mV/k
Gain change due to temperature change	TCG	-0.05		0.05	%/K
Risetime (0 to 20AT)	tr			3	μs
Frequency response	f-3dB		190		kHz
Output resistance	Ro		1		Ω



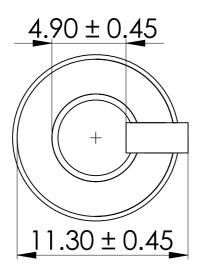
Characteristics



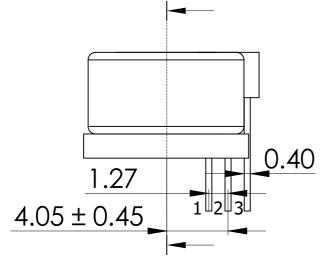


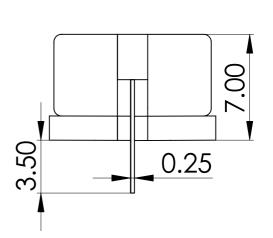
NOTES UNLESS OTHERWISE SPECIFIED:

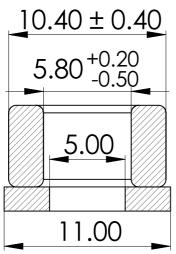
1: ALL UNITS ARE IN MM

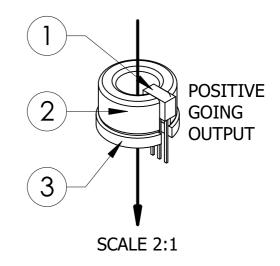


ITEM	DESCRIPTION			
1	HALL MAGNETIC SENSOR			
2	FLUX CONCENTRATOR			
3	ADHESIVE FOAM PAD			









PIN NUMBER	DESCRIPTION
1	SUPPLY
2	GND
3	OUTPUT

RAZTEC

TOLERANCE UNLESS OTHERWISE SPECIFIED

± 0.10mm

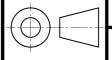
DRAWN:

TG SIZE: A4

APPROVED: WP

DATE: 12/09/23

RAZC-204XUCN



SCALE: 4:1

REVISION: R1

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 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