

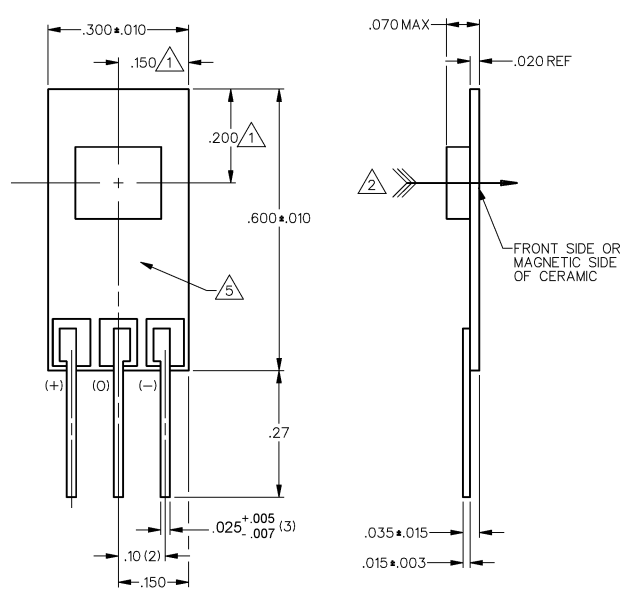
CATALOG LISTING
SS94B1
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 ISSUE **M**
 7
 REVISIONS
 A 00-18704
 16 MAR 00
 B 0038690
 14 FEB 08
 C 0039911
 15 MAR 08
 DRAWN
 RASTER
 DLM 16 MAR 00
 CHECK
 SAY 16 MAR 00
 CHECK
 BLR 15 MAY 08
 CHECK
 X90102-SS
 RELEASE NO. PR-18390
 REPLACES X90102-SS

MICRO SWITCH
 a Honeywell Division
 FED. MFG. CODE 91929

LINEAR OUTPUT HALL EFFECT TRANSDUCER

CATALOG LISTING
SS94B1

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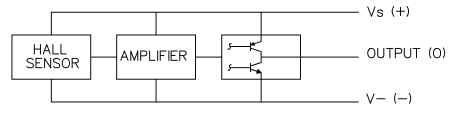


- NOTES
- 1 CENTERLINE OF HALL CELL (IC) ONLY.
 - 2 THE LOCATION OF THE CERAMIC COVER IS NOT SPECIFIED THE + MAGNETIC FLUX IS IN THIS DIRECTION (THIS ASSUMES THE CONVENTION THAT THE DIRECTION OF THE EXTERNAL FLUX OF A MAGNET IS FROM THE NORTH TO THE SOUTH POLE OF THE MAGNET)
 - 3 - THE DEVICE CANNOT BE DAMAGED BY MAGNETIC OVERDRIVE
 - 4 - OUTPUT TYPE - RATIOMETRIC
 - 5 ARTWORK IS TYPICAL
 - 6 ALL CHARACTERISTICS ARE -40°C TO 125°C UNLESS OTHERWISE STATED WITH $V_s = 5.000$ VDC

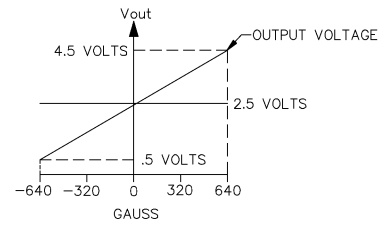
SPECIFICATIONS Δ

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
SENSITIVITY	$T_A = 25^\circ\text{C}$	3.062	3.125	3.188	mV/GAUSS
NULL	$T_A = 25^\circ\text{C}$	2.47	2.50	2.53	VOLTS
SUPPLY CURRENT	$T_A = 25^\circ\text{C}$		8	11	mA
OUTPUT CURRENT (SINK OR SOURCE)		1.0	2.0		mA
OUTPUT VOLTAGE SWING					
VOM -	-B APPLIED	.5	.4		VOLTS
VOM +	+B APPLIED $V_s = -.5$		$V_s = -.4$		VOLTS
B LIMITS FOR LINEAR OPERATION					GAUSS
	-B MAX	-640	-670		
	+B MAX	+640	+670		
V_{null} DRIFT	B = 0	-.03		+.03	%/°C
SENSITIVITY DRIFT		-.03		+.03	%/°C
LINEARITY	-BMAX TO +BMAX	0	-.5	-1.0	% OF SPAN
SUPPLY VOLTAGE		4.5		12	VOLTS
OPERATING TEMP		-55		150	°C

BLOCK DIAGRAM CURRENT SINKING OR SOURCING OUTPUT



TRANSFER CHARACTERISTICS AT $V_s = 5.0$ VDC



THIRD ANGLE PROJECTION

SCALE 5 : 1

DO NOT SCALE PRINT

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE

ONE PLACE (.0)	±.030
TWO PLACE (.00)	±.015
THREE PLACE (.000)	±.005
ANGLES	±
WEIGHT	

