

CATALOG LISTING SS94A2C  
 ISSUE 6  
 REVISIONS  
 A 072441  
 B 073769  
 C 073769  
 D 038690  
 E 039911  
 T.M.M. 18 JAN 89  
 RASTER DRAWN

**MICRO SWITCH**  
 a Honeywell Division  
FED. MFG. CODE 91224

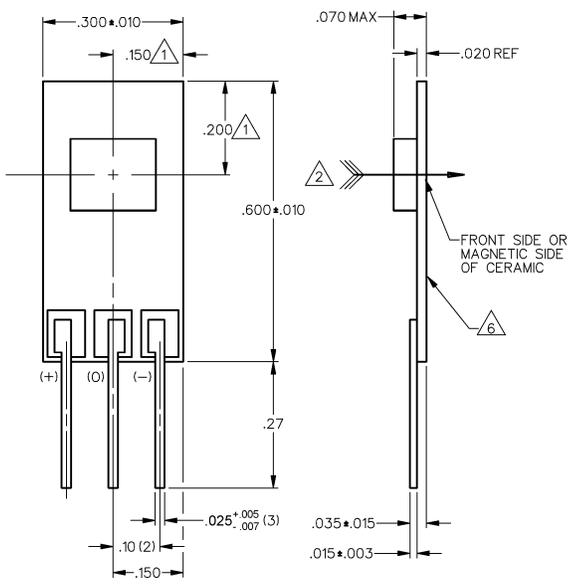
**LINEAR OUTPUT HALL EFFECT TRANSDUCER**

CATALOG LISTING  
**SS94A2C**

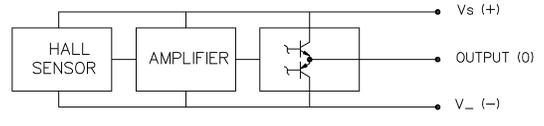
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**OPERATING CHARACTERISTICS**

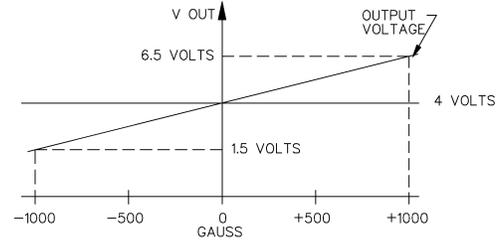
PARAMETER	MIN	TYP	MAX	UNITS	CONDITIONS/REMARKS
SUPPLY VOLTAGE	6.6	8.0	12.6	VOLTS	-40°C TO +125°C
SUPPLY CURRENT		13	30	mA	MAX @ 12.6 V @ -40°C
OUTPUT CURRENT			1	mA	SINKING OR SOURCING
OUTPUT SPAN		.625 V <sub>S</sub>		VOLTS	-1000G TO +1000G @ 25°C /5
SENSITIVITY	2.45	2.50	2.55	mV/g	@ 8.0 V <sub>S</sub> & 25°C
LINEARITY	-1.5	-8	0	% OF SPAN	DEV FROM STR LINE THRU -1000 AND +1000
V <sub>OUT</sub> @ 0 GAUSS	3.960	4.000	4.040	VOLTS	25°C
TEMP ERROR-NULL	-0.125		+0.125	%/°C	-40°C TO +125°C
TEMP ERROR-GAIN	-0.2		+0.2	%/°C	-40°C TO +125°C



**BLOCK DIAGRAM CURRENT SINKING OR SOURCING OUTPUT**



**NOMINAL TRANSFER CHARACTERISTICS AT 8.0 VDC**



- NOTES
- 1 CENTERLINE OF HALL CELL (IC) ONLY. THE LOCATION OF THE CERAMIC COVER IS NOT SPECIFIED
  - 2 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 THE OUTPUT IS CLAMPED AT 9.0 VDC MINIMUM, 9.5 VDC TYPICAL
  - 6 THIS SIDE COATED WITH CONDUCTIVE MATERIAL WHICH IS ELECTRICALLY CONNECTED TO (-) TERMINAL

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



ANSI Y14.5M-1982 APPLIES