

MICRO SWITCH
a Honeywell Division

FED. MFG. CODE 91929

LINEAR OUTPUT HALL
EFFECT TRANSDUCER

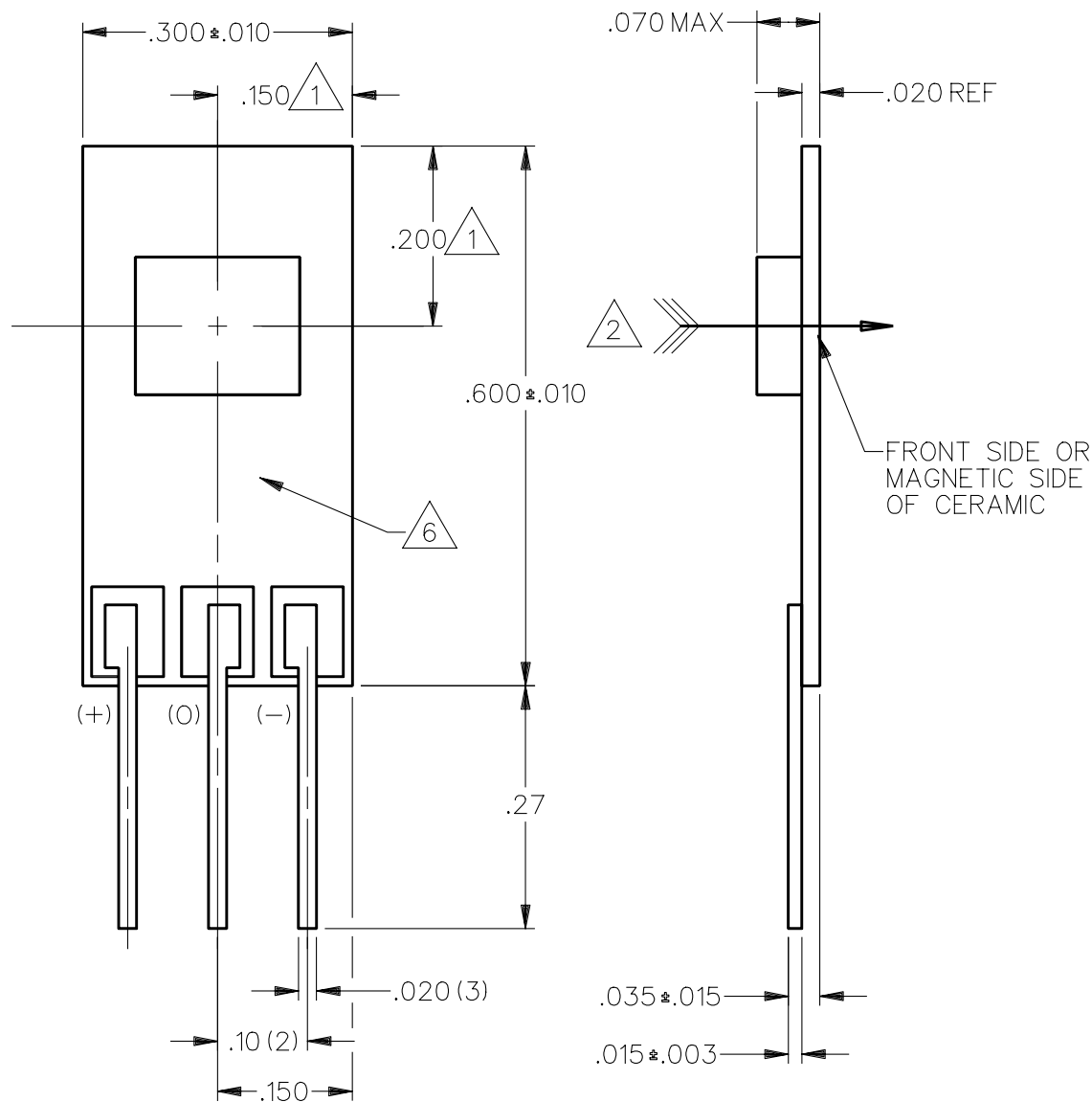
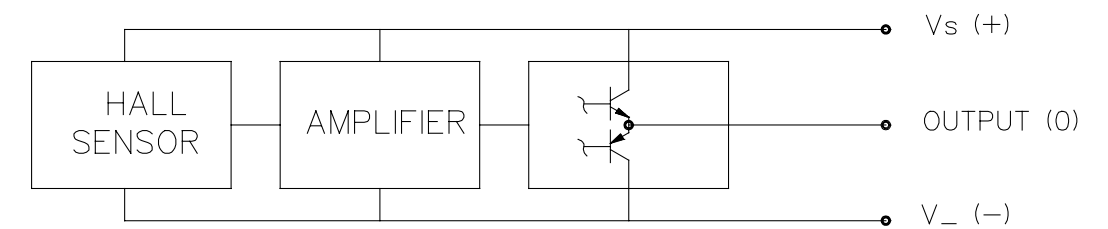
CATALOG LISTING
SS94A1 ★

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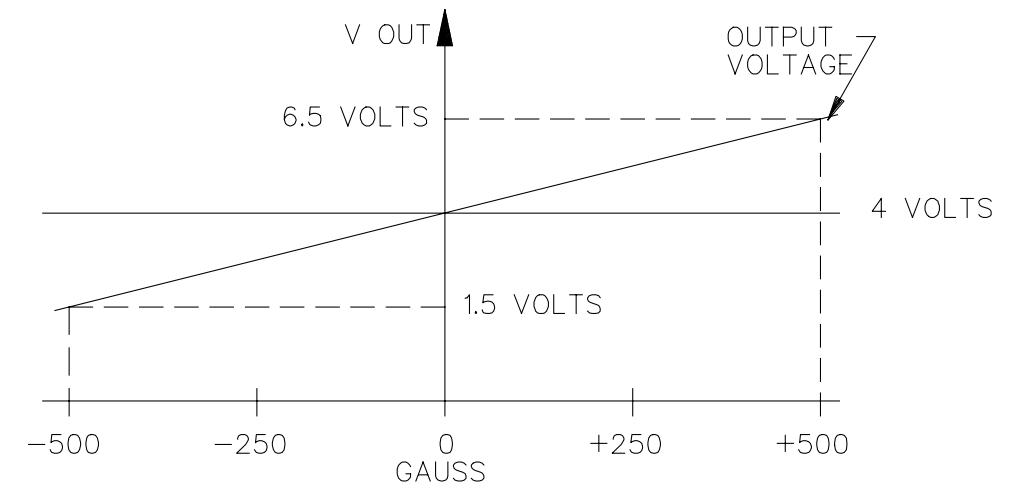
OPERATING CHARACTERISTICS

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 _S		VOLTS	-500G TO +500G @ 25°C /5\
SENSITIVITY	4.90	5.0	5.10	mV/g	@ 8.0 V _S & 25°C
LINEARITY	-1.5	-.8	0	% OF SPAN	DEV FROM STR LINE THRU -500 AND +500
V _{OUT} @ 0 GAUSS	3.960	4.000	4.040	VOLTS	25°C
TEMP ERROR-NULL	-.02		+.02	%/°C	-40°C TO +125°C
TEMP ERROR-GAIN	-.02		+.02	%/°C	-40°C TO +125°C

BLOCK DIAGRAM CURRENT SINKING OR SOURCING OUTPUT



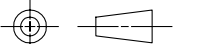
NOMINAL TRANSFER CHARACTERISTICS AT 8.0 VDC



NOTES

- 1 CENTERLINE OF HALL CELL
- 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 ARTWORK TYPICAL

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

CATALOG LISTING
SS94A1 ★

ISSUE
M
5

REVISIONS
A C064262
J A S
13 SEPT 88
B C072441
J A S
18 MAY 92

DDM/CAD
DRAWN
J A S 13 SEPT 88
CHECK D A W 13 SEPR 88
CHECK

REPLACES X83052-SS
RELEASE NO. DR-3524