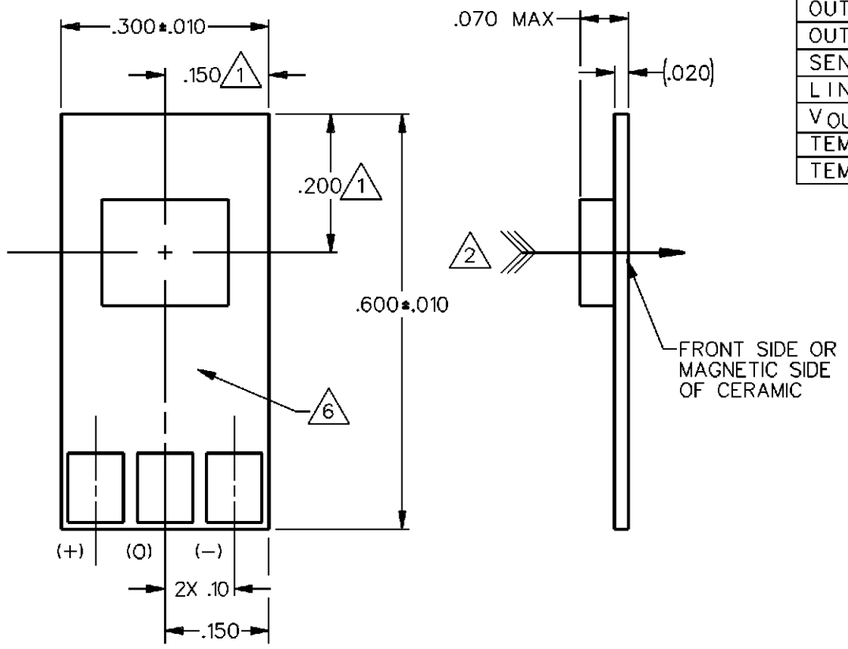
MICRO SWITCH
a Honeywell Division
FED. MFG. CODE 91929

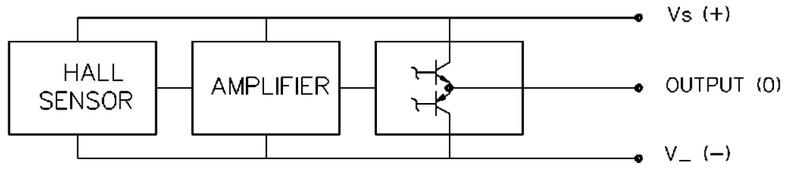
LINEAR OUTPUT HALL EFFECT TRANSDUCER

CATALOG LISTING
SS94A1H

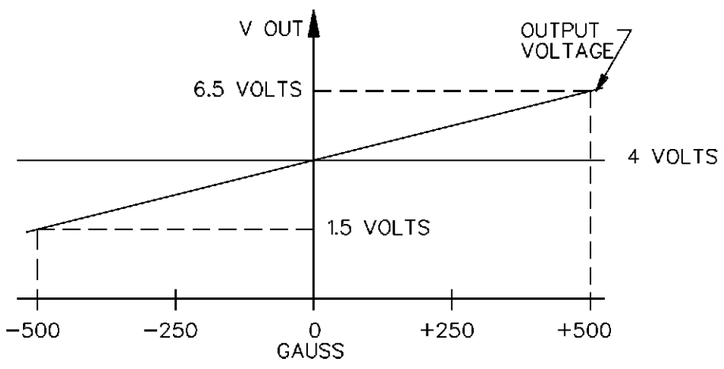


PARAMETER	MIN	TYP	MAX	UNITS	CONDITIONS/REMARKS
SUPPLY VOLTAGE	6.6	8.0	12.6	VOLTS	–40°C TO +125°C
SUPPLY CURRENT		13	30	mA	MAX @ 12.6 V @ –40°C
OUTPUT CURRENT			1	mA	SINKING OR SOURCING
OUTPUT SPAN		.625 V_S		VOLTS	–500G TO +500G @ 25°C 5
SENSITIVITY	4.90	5.0	5.10	mV/g	@ 8.0 V_S & 25°C
LINEARITY	–1.5	–.8	0.0	% 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 (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. ARTWORK TYPICAL

CAUTION ELECTROSTATIC SENSITIVE DEVICES
ESD SENSITIVITY: CLASS 3

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 SS94A1H
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ISSUE 3
RELEASE NO. PR-19917
REPLACES X94197-SS

REVISIONS

A	CO-95704	DLM 21 MAR 00
B	0039911	SS 19MAY08

	DRAWN	CHECK	CHECK	CHECK	CHECK
RASTER	DLM 21 MAR 00	SAV 21 MAR 00	BLR 19MAY08		