MICRO SWITCH
a Honeywell Division
FED. MFG. CODE 91929

LINEAR OUTPUT HALL EFFECT TRANSDUCER

CATALOG LISTING
SS94A1F

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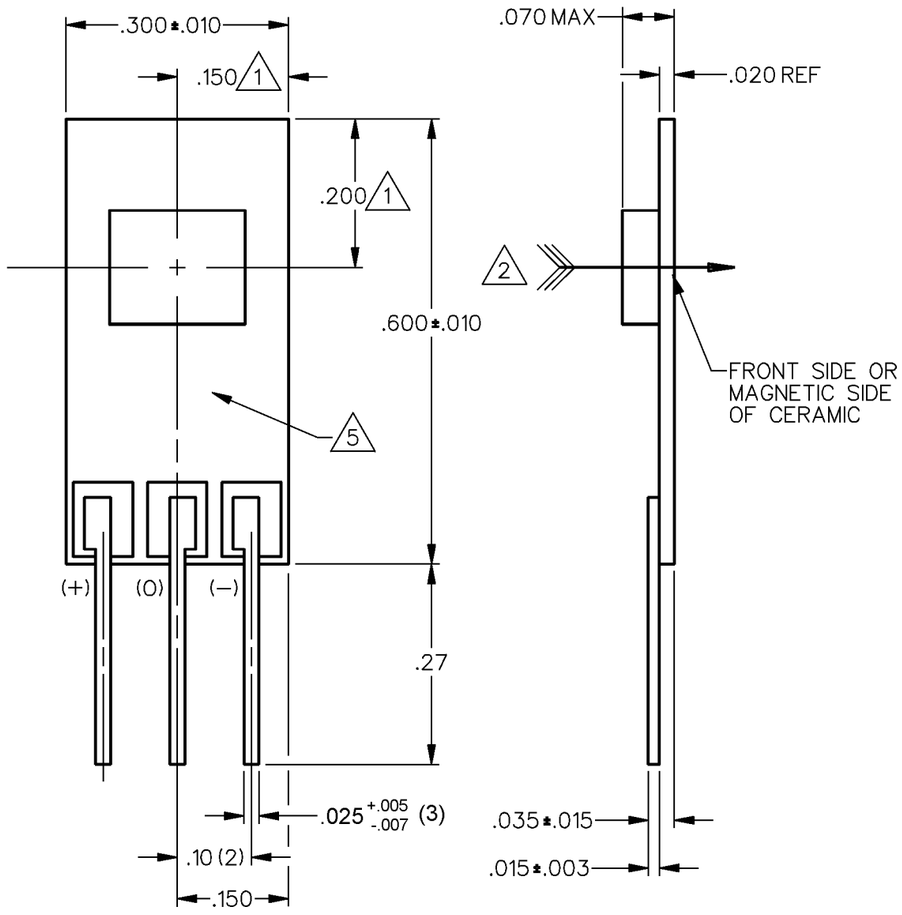

SPECIFICATIONS 6

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
SENSITIVITY	TA = 25°C	24.5	25.0	25.5	mV/GAUSS
NULL	TA = 25°	3.92	4.00	4.08	VOLTS
SUPPLY CURRENT	TA = 25°		13	20	mA
OUTPUT CURRENT (SINK OR SOURCE)		1.0	2.0		mA
OUTPUT VOLTAGE SWING					
VOM −	−B APPLIED	1.2	1.1		VOLTS
VOM +	7 +B APPLIED	Vs −1.0	Vs −.9		VOLTS
B LIMITS FOR LINEAR	−B MAX	−100	−115		GAUSS
OPERATION	+B MAX	+100	+115		GAUSS
Vnull DRIFT	B = 0			±.10	%/°C
SENSITIVITY DRIFT				+.02/−.055	%/°C
LINEARITY	−B MAX T +B MAX	−1.5	−.8	0	% OF SPAN
SUPPLY VOLTAGE		6.6		12.6	VOLTS

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. ARTWORK IS TYPICAL
6. ALL CHARACTERISTICS ARE −40°C TO 125°C UNLESS OTHERWISE STATED WITH Vs = 8.000 VDC
7. THE OUTPUT IS CLAMPED AT 9.0 VDC MINIMUM, 9.5 VDC TYPICAL

CAUTION ELECTROSTATIC SENSITIVE DEVICES
DO NOT OPEN OR HANDLE EXCEPT AT A STATIC FREE WORKSTATION
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

ANSI Y14.5M–1982 APPLIES

CATALOG LISTING SS94A1F
PAGE 1 OF 1
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REVISIONS

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CHECK K A G 8 AUG 89
CHECK
CHECK
DRAWN J A S 9 AUG 89
RASTER