

CATALOG LISTING

THIS DRAWING COVERS A PROPRIETARY ITEM AND IS THE PROPERTY OF MICRO SWITCH, A DIVISION OF HONEYWELL. THIS DRAWING IS NOT TO BE COPIED OR USED WITHOUT THE APPROVAL OF MICRO SWITCH.

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
SENSITIVITY	TA = 25°C	3.062	3.125	3.188	mV/GAUSS
NULL	TA = 25°C	2.47	2.50	2.53	VOLTS
SUPPLY CURRENT	TA = 25°C		8	11	mA
OUTPUT CURRENT (SINK OR SOURCE)		1.0	2.0		mA
OUTPUT VOLTAGE SWING VOM – VOM +					
	–B APPLIED	.5	.4		VOLTS
	+B APPLIED	Vs –.5	Vs –.4		VOLTS
B LIMITS FOR LINEAR OPERATION	–B MAX	–640	–670		GAUSS
	+B MAX	+640	+670		GAUSS
Vnull 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

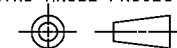


Graph of Output Voltage (V_{out}) vs. Gauss. The graph shows a linear relationship with a slope of 0.0075 V/G. Key points marked are (-640, 0.5 V), (0, 2.5 V), and (640, 4.5 V).

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 $V_s = 5.000\text{ VDC}$

THIRD ANGLE PROJECTION



SCALE 5 : 1

DO NOT SCALE PRINT

**UNLESS OTHERWISE SPECIFIED
TOLERANCES ARE**

ONE PLACE	(.0)	$\pm .030$
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TWO PLACE (.00) $\pm .015$

THREE PLACE (.000) $\pm .005$

THREE-PIECE	1.0000	±
ANGLES		±

WEIGHT



MICRO SWITCH
a Honeywell Division

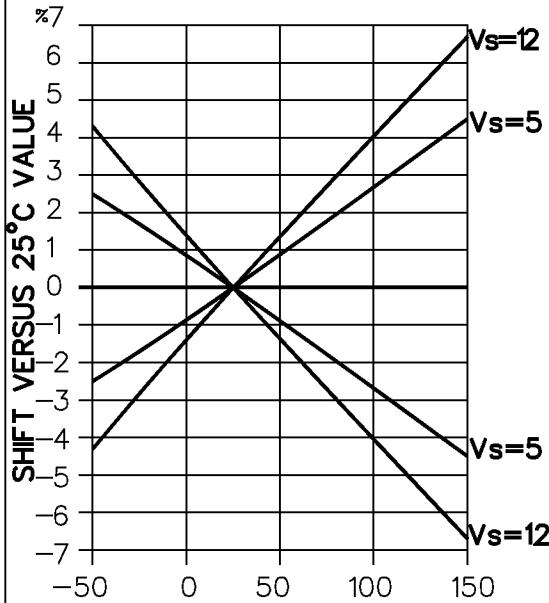
FED. MFG. CODE 91929

LINEAR OUTPUT HALL
EFFECT TRANSDUCER

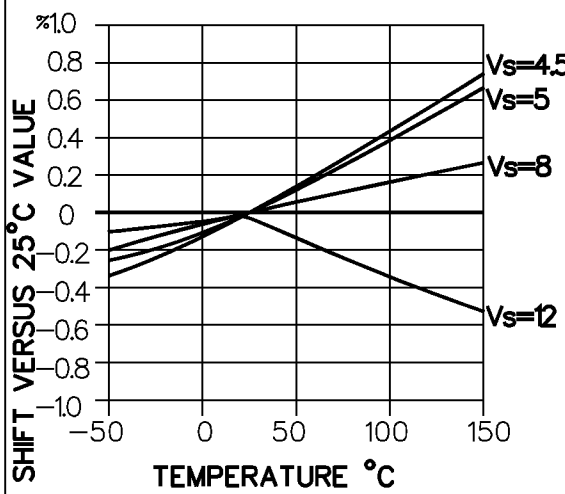
CATALOG LISTING
SS94B1

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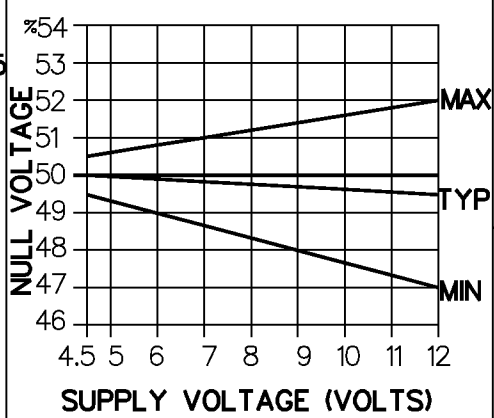
NULL SHIFT LIMITS VERSUS TEMP



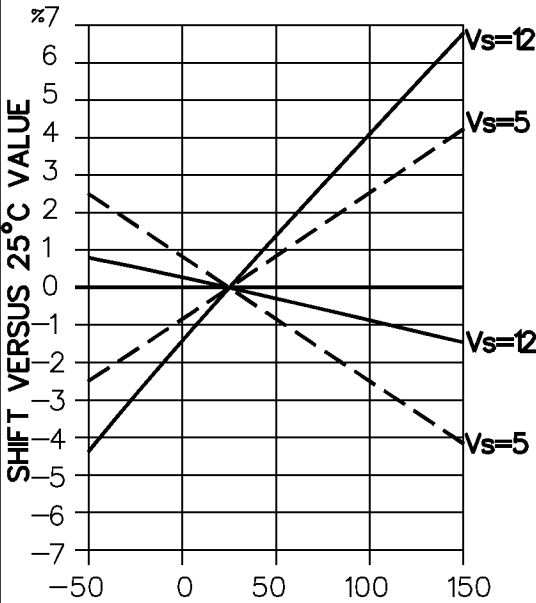
TYPICAL NULL SHIFT VERSUS TEMP



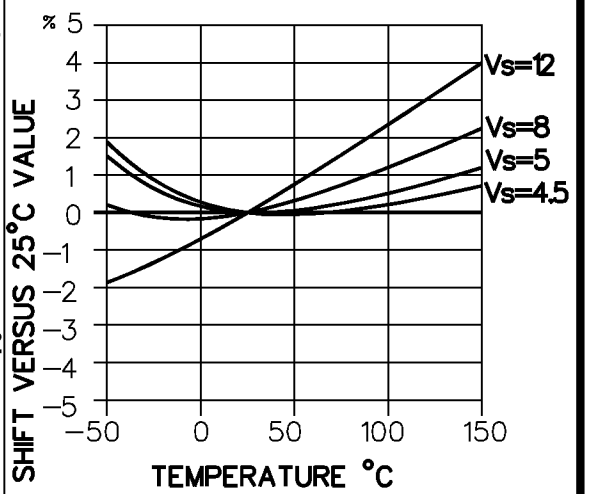
RATIO OF Vnull TO Vsupply



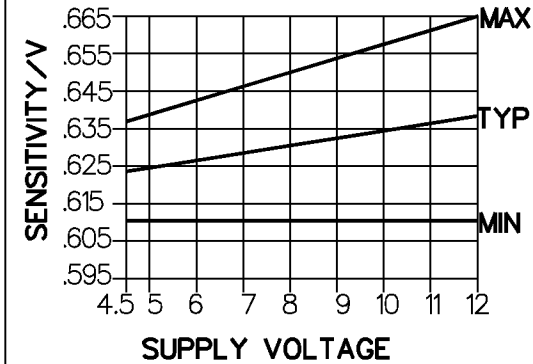
GAIN SHIFT LIMITS VERSUS TEMP



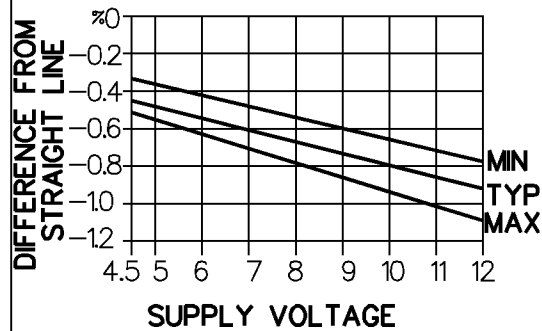
TYPICAL GAIN SHIFT VERSUS TEMP



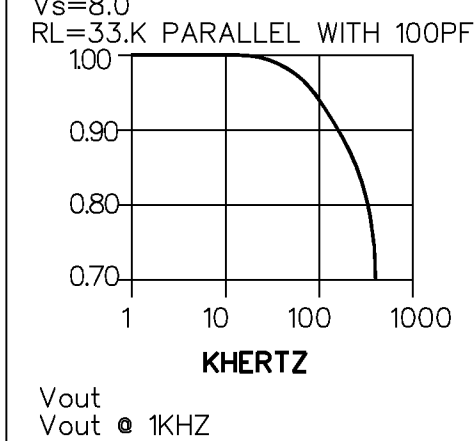
SENSITIVITY/V VERSUS SUPPLY VOLTAGE
(mV/GAUSS/V)



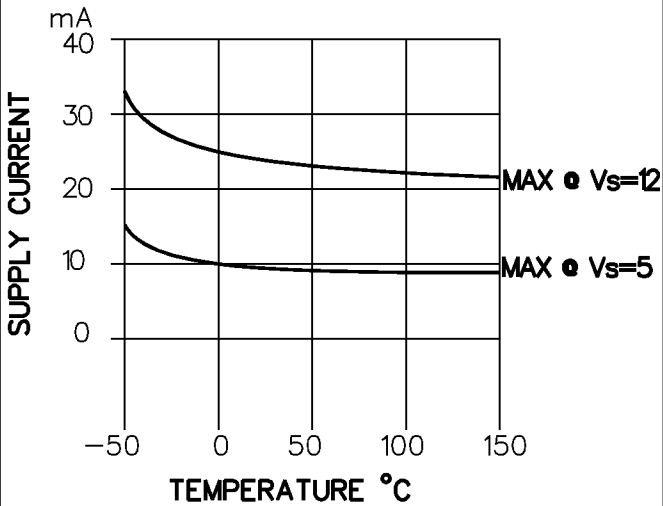
LINEARITY VERSUS SUPPLY VOLTAGE
END POINTS OF SPAN METHOD



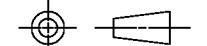
TYPICAL FREQUENCY RESPONSE



SUPPLY CURRENT VERSUS TEMP



THIRD ANGLE PROJECTION



SCALE NONE

DO NOT SCALE PRINT

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TOLERANCES ARE

ONE PLACE (.0) ±.030

TWO PLACE (.00) ±.015

THREE PLACE (.000) ±.005

ANGLES ±

WEIGHT

