

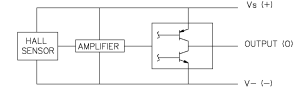
CHARACTERISTICS ARE AT $V_s=5.00$ WITH 4.7K OUTPUT TO MINUS WITH $T_A=-40^{\circ}\text{C}$ TO $+125^{\circ}\text{C}$ UNLESS OTHERWISE SPECIFIED

SS496A

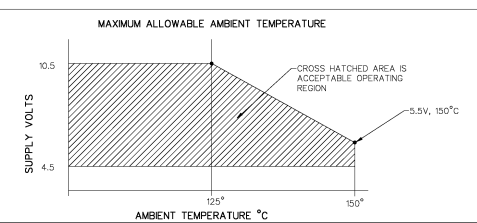
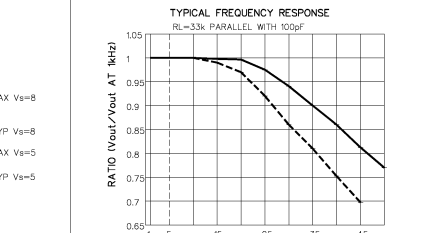
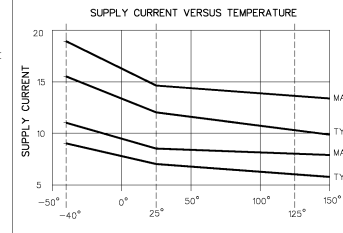
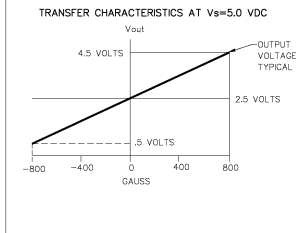
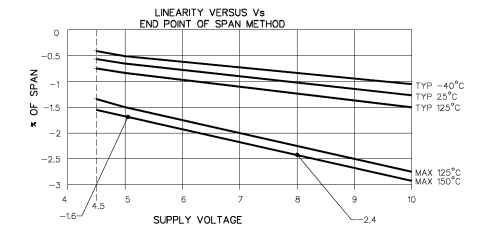
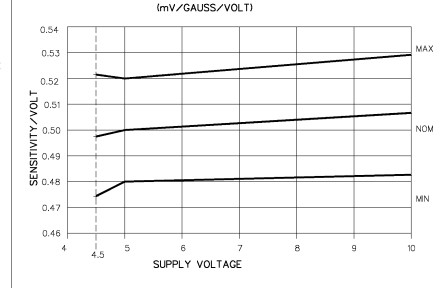
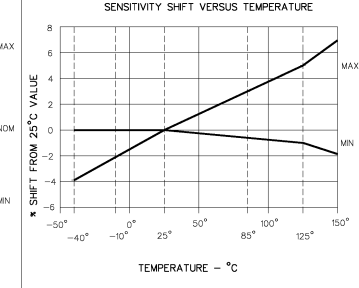
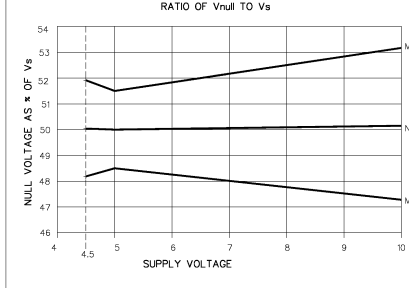
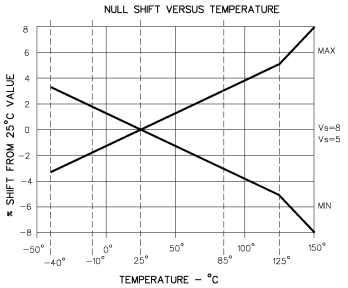
SS496 SERIES CHART 1

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
SENSITIVITY	$T_A = 25^{\circ}\text{C}$	2.4	2.5	2.6	mV/GAUSS
NULL	$T_A = 25^{\circ}\text{C}$	2.425	2.50	2.575	VOLTS
SUPPLY CURRENT	$T_A = 25^{\circ}\text{C}$		7	8.7	mA
OUTPUT CURRENT SOURCE	$V_s > 4.5$	1mA	1.5mA		
SINK	$V_s > 4.5$.6mA	1.5mA		
SINK	$V_s > 5.0$	1mA	1.5mA		
RESPONSE TIME			3.45		
OUTPUT VOLTAGE SWING					
VOM -	-B APPLIED	.4	.2		VOLTS
VOM +	+B APPLIED	$V_s - .4$	$V_s - .2$		VOLTS
B LIMITS FOR LINEAR OPERATION					
-B MAX		-750	-840		GAUSS
+B MAX		+750	+840		GAUSS
Vnull1 DRIFT	$B = 0, T_A = 25^{\circ}\text{C}$ TO 125°C	-0.48		+0.48	$\% / ^{\circ}\text{C}$
Vnull1 DRIFT	$B = 0, T_A = +125^{\circ}\text{C}$ TO $+150^{\circ}\text{C}$	-0.64		+0.64	$\% / ^{\circ}\text{C}$
SENSITIVITY DRIFT	$T_A = +25^{\circ}\text{C}$ TO $+125^{\circ}\text{C}$	-0.01		+0.05	$\% / ^{\circ}\text{C}$
SENSITIVITY DRIFT	$T_A = -40^{\circ}\text{C}$ TO $+25^{\circ}\text{C}$	0		+0.08	$\% / ^{\circ}\text{C}$
LINEARITY	$B = -800$ TO $+600$	0	-1.0	-1.5	$\% \text{ OF SPAN}$
SUPPLY VOLTAGE	-40°C TO $+125^{\circ}\text{C}$	4.5	5.0	10.5	VOLTS
OPERATING TEMP	SEE MAX TEMPERATURE CHART	-40		+150	$^{\circ}\text{C}$

BLOCK DIAGRAM CURRENT SINKING OR SOURCING OUTPUT



CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	MAX	UNITS
SUPPLY VOLTAGE	V_{cc}		-0.5	11	V
OUTPUT VOLTAGE	V_{out}		-0.5	11	V
OUTPUT CURRENT	I_{out}	SOURCE OR SINK	10		mA
TEMPERATURE	T_A	OPERATING	-55	150	$^{\circ}\text{C}$
	T_s	STORAGE ($V_{cc}=0$)	-55	165	$^{\circ}\text{C}$



THIRD ANGLE PROJECTION

SCALE: NONE

DO NOT SCALE PRINT

UNLESS OTHERWISE SPECIFIED

ONE PLACE 100 0.030

TWO PLACES 1000 0.010

THREE PLACES 10000 0.005

ANGLES 2°

NEIGHT

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780-504-1100

ANSI Y14.5M-1982 APPLIES

MASTER REDUCED

Micro Switch

Honeywell Division

MINIATURE RATIO-METRIC

LINEAR HALL EFFECT SENSOR

SS496 SERIES CHART 1

EXACTOS 11517020

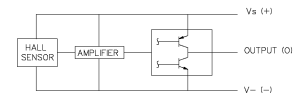
CHARACTERISTICS ARE AT $V_s=5.00$ WITH 4.7K OUTPUT TO MINUS WITH $T_A=-40^{\circ}\text{C}$ TO $+125^{\circ}\text{C}$ UNLESS OTHERWISE SPECIFIED

SS496A1

SS496 SERIES CHART 1

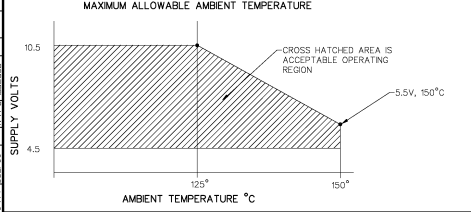
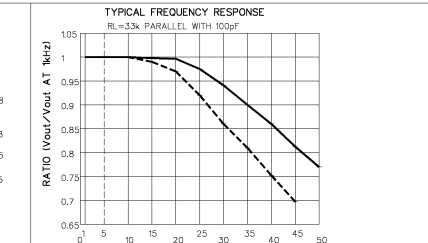
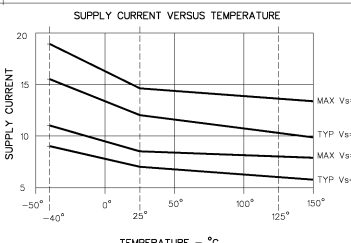
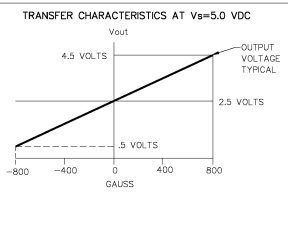
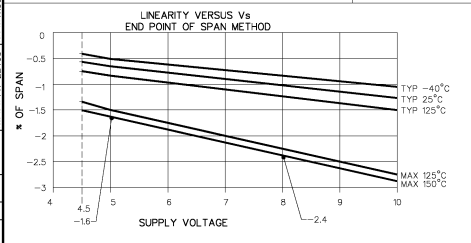
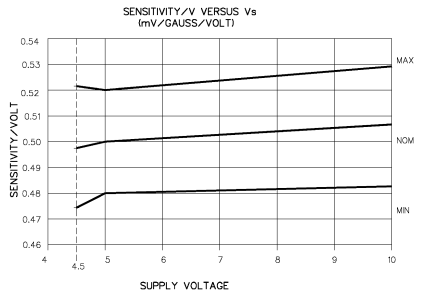
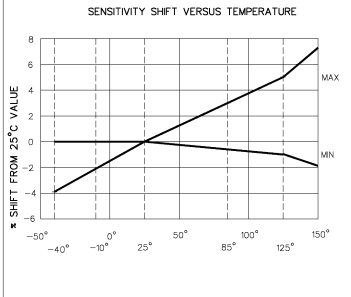
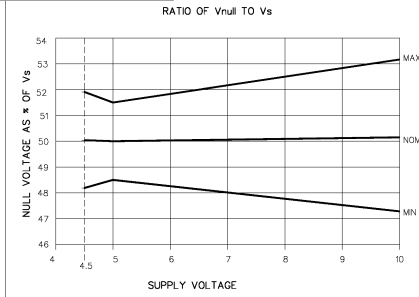
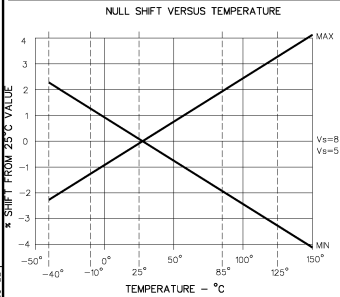
PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
SENSITIVITY	$T_A = 25^{\circ}\text{C}$	2.425	2.500	2.575	mV/GAUSS
NULL	$T_A = 25^{\circ}\text{C}$	2.425	2.50	2.575	VOLTS
SUPPLY CURRENT	$T_A = 25^{\circ}\text{C}$		7	8.7	mA
OUTPUT CURRENT SOURCE	$V_s > 4.5$	1mA	1.5mA		
SINK	$V_s > 4.5$	1.5mA	1.5mA		
SINK	$V_s > 5.0$	1mA	1.5mA		
RESPONSE TIME			3 μs		
OUTPUT VOLTAGE SWING					
VOM -	-B APPLIED	-4	-2		VOLTS
VOM +	+B APPLIED	$V_s - .4$	$V_s - .2$		VOLTS
B LIMITS FOR LINEAR OPERATION					
-B MAX		-7.50	-8.40		GAUSS
+B MAX		+7.50	+8.40		GAUSS
V_{null} DRIFT	$B = 0, T_A = 25^{\circ}\text{C TO } 125^{\circ}\text{C}$	-0.32		+0.32	$\% / ^{\circ}\text{C}$
V_{null} DRIFT	$B = 0, T_A = +125^{\circ}\text{C TO } +150^{\circ}\text{C}$	-0.64		+0.64	$\% / ^{\circ}\text{C}$
SENSITIVITY DRIFT	$T_A = +25^{\circ}\text{C TO } +150^{\circ}\text{C}$	-0.1		+0.5	$\% / ^{\circ}\text{C}$
SENSITIVITY DRIFT	$T_A = -40^{\circ}\text{C TO } +25^{\circ}\text{C}$	0		+0.6	$\% / ^{\circ}\text{C}$
LINEARITY	$B = -600 \text{ TO } +600$	0	-1.0	-1.5	$\% \text{ OF SPAN}$
SUPPLY VOLTAGE	$-40^{\circ}\text{C TO } +125^{\circ}\text{C}$	4.5	5.0	10.5	VOLTS
OPERATING TEMP	SEE MAX TEMPERATURE CHART	-40		+150	$^{\circ}\text{C}$

BLOCK DIAGRAM CURRENT SINKING OR SOURCING OUTPUT



ABSOLUTE MAXIMUM CHARACTERISTICS

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	MAX	UNITS
SUPPLY VOLTAGE	V_{cc}		-0.5	11	V
OUTPUT VOLTAGE	V_{out}		-0.5	11	V
OUTPUT CURRENT	I_{out}	SOURCE OR SINK	50	50	mA
TEMPERATURE	T_A	OPERATING	-55	150	$^{\circ}\text{C}$
	T_s	STORAGE ($V_{cc}=0$)	-55	165	$^{\circ}\text{C}$



ESD SENSITIVITY: CLASS 3

MASTER REDUCED Honeywell Division

ANSI Y14.5M-1982 APPLIES

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SCALE: NONE

UNLESS OTHERWISE SPECIFIED

ONE PLACE: 0.030

TWO PLACES: 0.015

THREE PLACES: 0.005

ANGLES: $\pm 2^{\circ}$

NE: 100 μ

THIRD ANGLE PROJECTION

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UNLESS OTHERWISE SPECIFIED

ONE PLACE: 0.030

TWO PLACES: 0.015

THREE PLACES: 0.005

ANGLES: $\pm 2^{\circ}$

NE: 100 μ

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UNLESS OTHERWISE SPECIFIED

ONE PLACE: 0.030

TWO PLACES: 0.015

THREE PLACES: 0.005

ANGLES: $\pm 2^{\circ}$

NE: 100 μ

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UNLESS OTHERWISE SPECIFIED

ONE PLACE: 0.030

TWO PLACES: 0.015

THREE PLACES: 0.005

ANGLES: $\pm 2^{\circ}$

NE: 100 μ

SS496 SERIES CHART 1

TEMPERATURE RANGE: -40 TO 150

RESISTANCE: 4.7K

OUTPUT: 4.7K

MINIMUM ORDER QUANTITY: 1000

REVISIONS:

DATE: 11/11/82

BY: J. B. BROWN

APPROVED: J. B. BROWN

REVISIONS:

DATE: 11/11/82

BY: J. B. BROWN

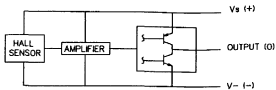
APPROVED: J. B. BROWN

CHARACTERISTICS ARE AT $V_s=5.0$ WITH 4.7K OUTPUT TO MINUS WITH $T_A = -40^{\circ}\text{C}$ TO $+125^{\circ}\text{C}$ UNLESS OTHERWISE SPECIFIED

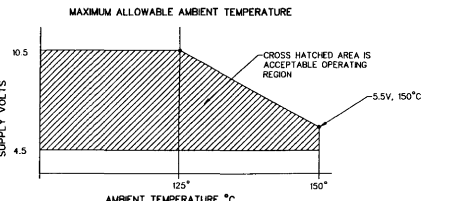
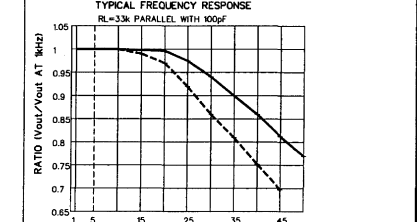
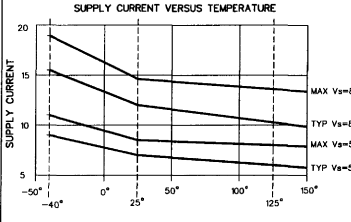
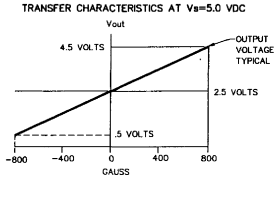
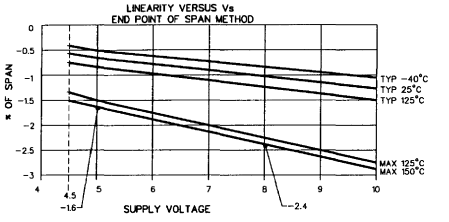
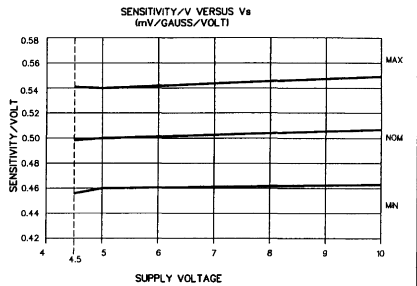
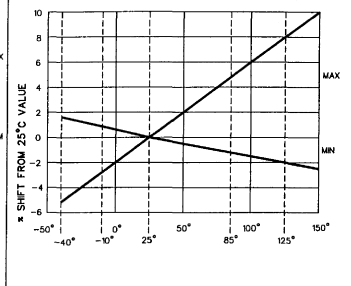
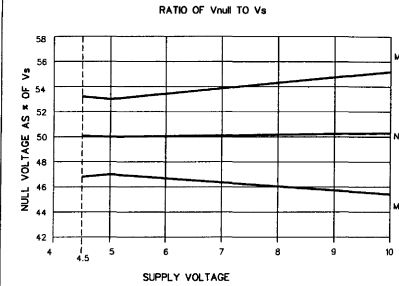
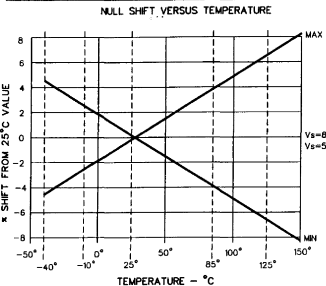
SS496B

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
SENSITIVITY	$T_A = 25^{\circ}\text{C}$	2.300	2.500	2.700	mV/GAUSS
NULL	$T_A = 25^{\circ}\text{C}$	2.350	2.50	2.550	VOLTS
SUPPLY CURRENT	$T_A = 25^{\circ}\text{C}$	7	7	8.7	mA
OUTPUT CURRENT SOURCE	$V_s > 4.5$	1mA	1.5mA		
SINK	$V_s > 4.5$	5mA	1.0mA		
SINK	$V_s > 5.0$	1mA	1.5mA		
RESPONSE TIME		3μS			
OUTPUT VOLTAGE SWING					
VOM -	-B APPLIED	.4	.2		VOLTS
VOM +	+B APPLIED	$V_s - .4$	$V_s - .2$		VOLTS
B LIMITS FOR LINEAR OPERATION	-B MAX	-750	-840		GAUSS
	+B MAX	+750	+840		GAUSS
V_{null} DRIFT	$B = 0, T_A = 25^{\circ}\text{C}$ TO 125°C	-0.84	+0.84		$\mu\text{V}/^{\circ}\text{C}$
V_{null} DRIFT	$B = 0, T_A = +125^{\circ}\text{C}$ TO $+150^{\circ}\text{C}$	-0.64	+0.64		$\mu\text{V}/^{\circ}\text{C}$
SENSITIVITY DRIFT	$T_A = +25^{\circ}\text{C}$ TO $+150^{\circ}\text{C}$	-0.2	+0.8		$\mu\text{V}/^{\circ}\text{C}$
SENSITIVITY DRIFT	$T_A = -40^{\circ}\text{C}$ TO $+25^{\circ}\text{C}$	-0.2	+0.8		$\mu\text{V}/^{\circ}\text{C}$
LINEARITY	$B = -800$ TO $+600$	0	-1.0	-1.5	% OF SPAN
SUPPLY VOLTAGE	-40°C TO $+125^{\circ}\text{C}$	4.5	5.0	10.5	VOLTS
OPERATING TEMP	SEE MAX TEMPERATURE CHART	-40		+150	$^{\circ}\text{C}$

BLOCK DIAGRAM CURRENT SINKING OR SOURCING OUTPUT



CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	MAX	UNITS
SUPPLY VOLTAGE	V_{cc}		-0.5	11	V
OUTPUT VOLTAGE	V_{out}		-0.5	11	V
OUTPUT CURRENT	I_{out}	SOURCE OR SINK	10	10	mA
TEMPERATURE	T_A	OPERATING	-55	150	$^{\circ}\text{C}$
	T_s	STORAGE ($V_{cc}=0$)	-55	165	$^{\circ}\text{C}$



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MICRO SWITCH
A Honeywell Division

VIEW ANGLE PROJECTION	SCALE	NOTE
ISO	1:1	IF NOT SCALE PRINT
UNLESS OTHERWISE SPECIFIED	ONE PLACE	0.030
TOLERANCE ARE	TWO PLACES	0.005
	THREE PLACES	0.005
	ANGLES	1/2°

SS496 SERIES CHART 1
 PAGE 1 OF 2
 10/2003
 MICRO SWITCH
 1500 W. WASHINGTON AVE. ARIZONA, AZ 85622-0001