

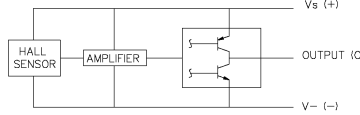


CHARACTERISTICS ARE AT  $V_s=5.00$  WITH 4.7K OUTPUT TO MINUS WITH  $T_A = -40^\circ\text{C}$  TO  $+125^\circ\text{C}$  UNLESS OTHERWISE SPECIFIED

SS496A

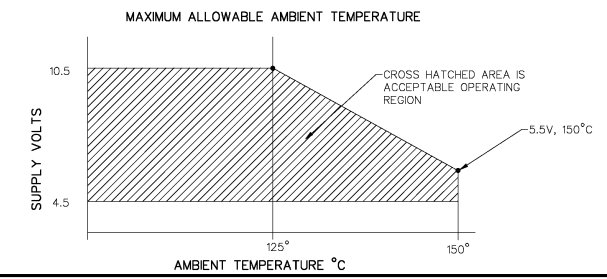
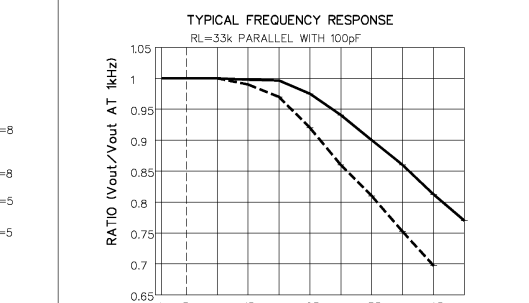
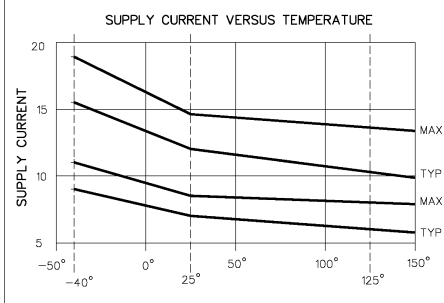
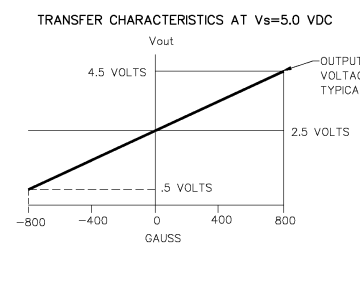
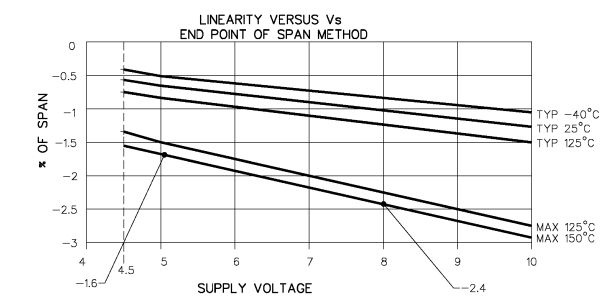
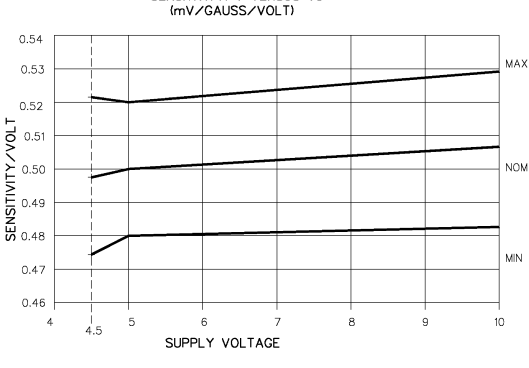
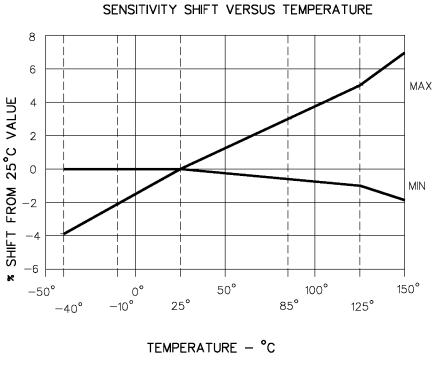
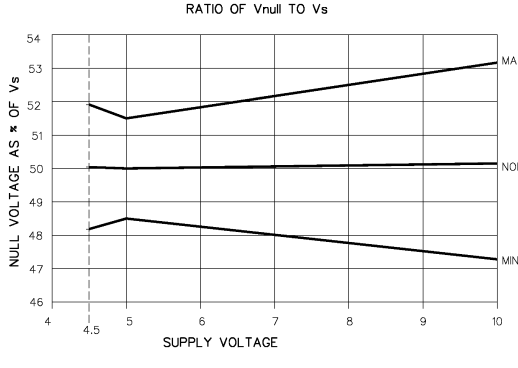
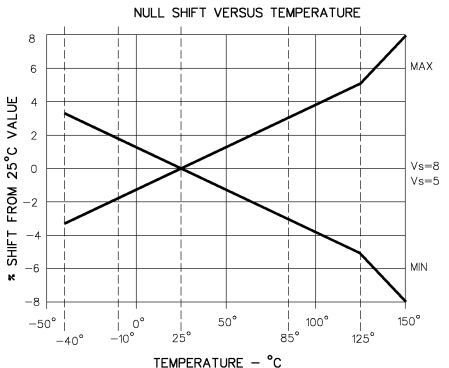
PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
SENSITIVITY	$T_A = 25^\circ\text{C}$	2.4	2.5	2.6	mV/GAUSS
NULL	$T_A = 25^\circ\text{C}$	2.425	2.50	2.575	VOLTS
SUPPLY CURRENT	$T_A = 25^\circ\text{C}$		7	8.7	mA
OUTPUT CURRENT SOURCE	$V_s > 4.5$	1mA	1.5mA		
OUTPUT CURRENT SINK	$V_s > 4.5$	.6mA	1.5mA		
RESPONSE TIME			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		-7.50	-8.40		GAUSS
+B MAX		+7.50	+8.40		GAUSS
Vnull DRIFT	$B = 0, T_A = 25^\circ\text{C}$ TO $125^\circ\text{C}$		-0.048		% / °C
Vnull DRIFT	$B = 0, T_A = +125^\circ\text{C}$ TO $+150^\circ\text{C}$		-0.064		% / °C
SENSITIVITY DRIFT	$T_A = +25^\circ\text{C}$ TO $+125^\circ\text{C}$		-0.01		% / °C
SENSITIVITY DRIFT	$T_A = -40^\circ\text{C}$ TO $+25^\circ\text{C}$		0		% / °C
LINEARITY	$B = -600$ TO $+600$		-1.0		% 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	°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		10	mA
TEMPERATURE	$T_A$	OPERATING	-55	150	°C
	$T_s$	STORAGE ( $V_{cc}=0$ )	-55	165	°C



CAUTION  
ELECTROSTATIC DISCHARGE  
ESD SENSITIVITY  
CLASS 3

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PRO. WPS. 0006 01999  
**MICRO SWITCH**  
Honeywell Division  
MINIATURE RATIO-METRIC  
LINEAR HALL EFFECT SENSOR  
CATALOG LISTING  
SS496 SERIES CHART 1

THIRD ANGLE PROJECTION  
DO NOT SCALE PRINT  
SCALE NONE  
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE  
ONE PLACE .010 ±.030  
TWO PLACES .001 ±.015  
THREE PLACES .0001 ±.0005  
ANGLES ±2°  
WEIGHT

DRAWING NUMBER 10 SS496 SERIES CHART 1  
 OF 10 PAGES  
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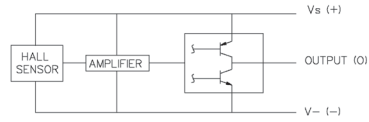
CHARACTERISTICS ARE AT  $V_s=5.00$  WITH 4.7K OUTPUT TO MINUS WITH  $T_A = -40^\circ\text{C}$  TO  $+125^\circ\text{C}$  UNLESS OTHERWISE SPECIFIED

SS496A1

SS496 SERIES CHART 1

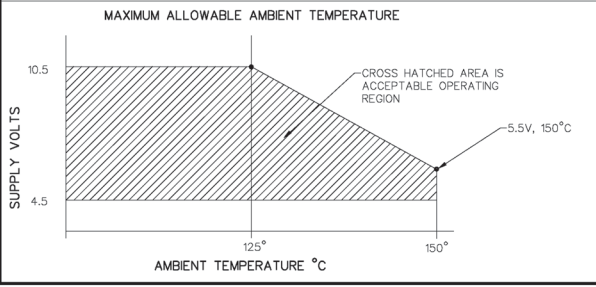
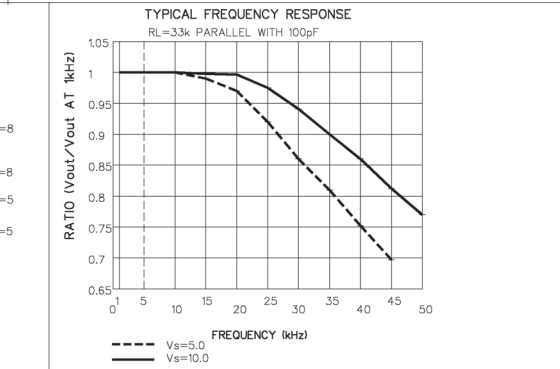
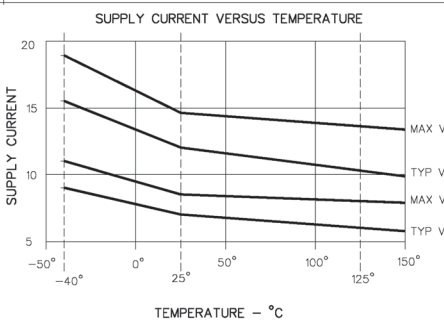
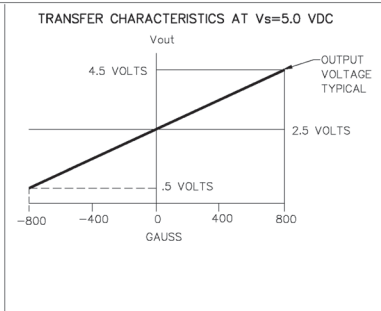
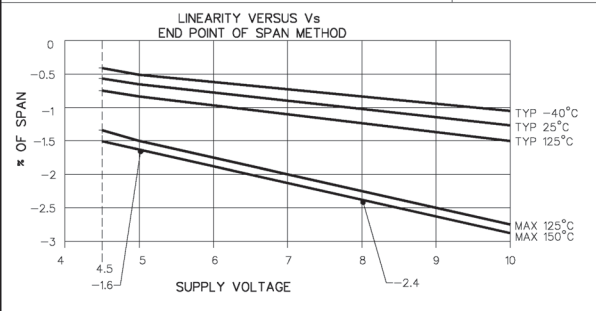
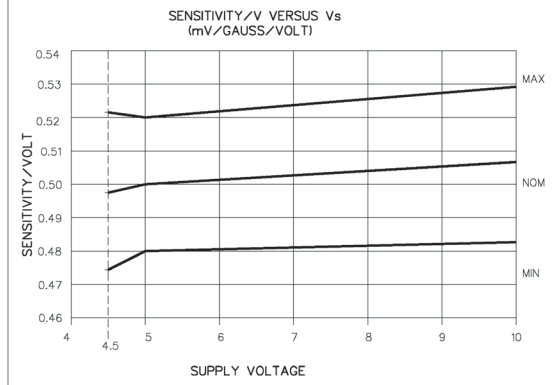
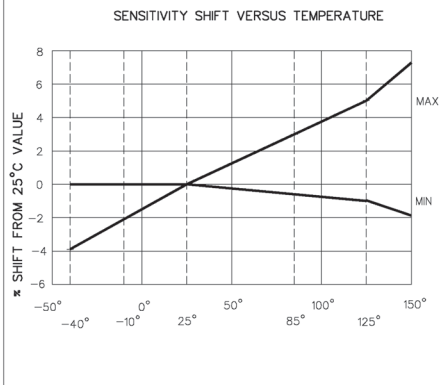
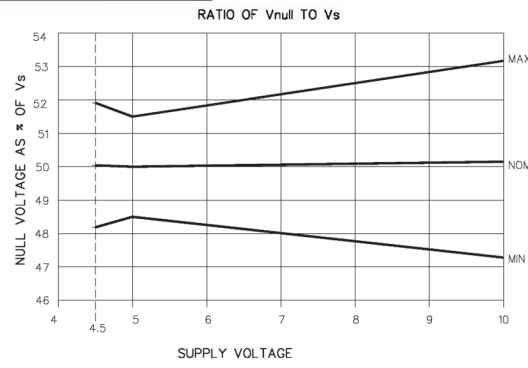
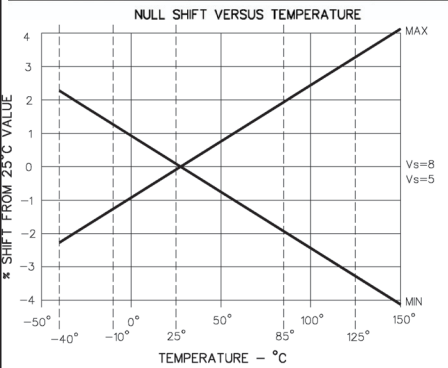
PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
SENSITIVITY	$T_A = 25^\circ\text{C}$	2.425	2.500	2.575	mV/GAUSS
NULL	$T_A = 25^\circ\text{C}$	2.425	2.50	2.575	VOLTS
SUPPLY CURRENT	$T_A = 25^\circ\text{C}$		7	8.7	mA
OUTPUT CURRENT SOURCE	$V_s > 4.5$	1mA		1.5mA	
SINK	$V_s > 4.5$	.6mA		1.5mA	
SINK	$V_s > 5.0$	1mA		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					GAUSS
-B MAX		-750	-840		
+B MAX		+750	+840		
Vnull DRIFT	$B = 0, T_A = 25^\circ\text{C TO } 125^\circ\text{C}$			$\pm .032$	$\% / ^\circ\text{C}$
Vnull DRIFT	$B = 0, T_A = +125^\circ\text{C TO } +150^\circ\text{C}$			$\pm .064$	$\% / ^\circ\text{C}$
SENSITIVITY DRIFT	$T_A = +25^\circ\text{C TO } +125^\circ\text{C}$			$\pm .05$	$\% / ^\circ\text{C}$
SENSITIVITY DRIFT	$T_A = -40^\circ\text{C TO } +25^\circ\text{C}$			$\pm .06$	$\% / ^\circ\text{C}$
SENSITIVITY DRIFT	$T_A = +125^\circ\text{C TO } +150^\circ\text{C}$			$\pm .08$	$\% / ^\circ\text{C}$
LINEARITY	$B = -6.00 \text{ TO } +6.00$	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		10	mA
TEMPERATURE	$T_A$	OPERATING	-55	150	$^\circ\text{C}$
	$T_s$	STORAGE ( $V_{cc}=0$ )	-55	165	$^\circ\text{C}$



REVISION NUMBER: 10  
 SS496 SERIES CHART 1  
 OF 3  
 PAGE 3  
 REVISED: 10/88  
 DESIGNED BY: J. G. BROWN  
 DRAWN BY: R.M.  
 CHECKED BY: J. G. BROWN  
 APPROVED BY: J. G. BROWN  
 PART NUMBER: SS496A1

**CAUTION**  
 ESD SENSITIVE  
 CLASS 3  
 MASTER REDUCED  
 ANSI Y14.5M-1982 APPLIES

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 FED. WFO. CODE #1989  
**MICRO SWITCH**  
 a Honeywell Division  
 MINIATURE RATIO-METRIC  
 LINEAR HALL EFFECT SENSOR  
 CATALOG LISTING  
**SS496 SERIES CHART 1**

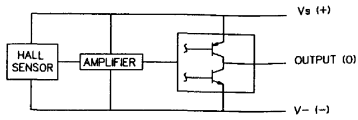
THIRD ANGLE PROJECTION  
 SCALE: NONE  
 DO NOT SCALE PRINT  
 UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:  
 ONE PLACE (L)  $\pm .030$   
 TWO PLACES (L0)  $\pm .015$   
 THREE PLACES (L00)  $\pm .005$   
 ANGLES  $\pm 2^\circ$   
 WEIGHT

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

SS496B

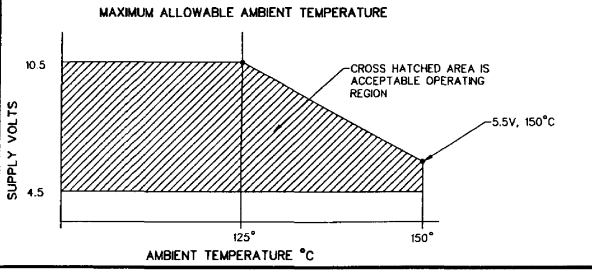
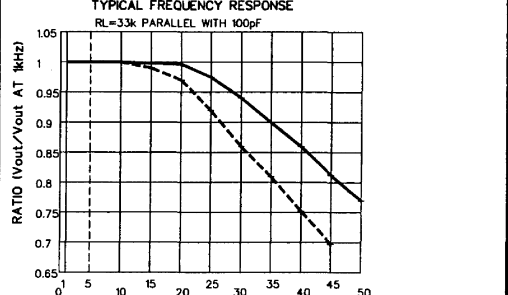
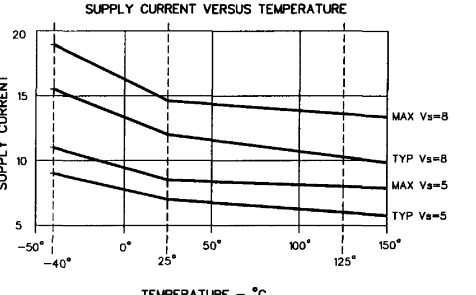
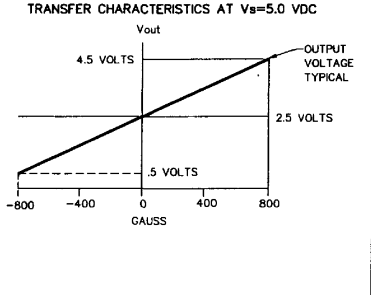
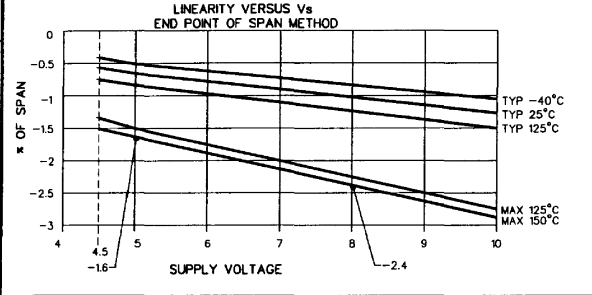
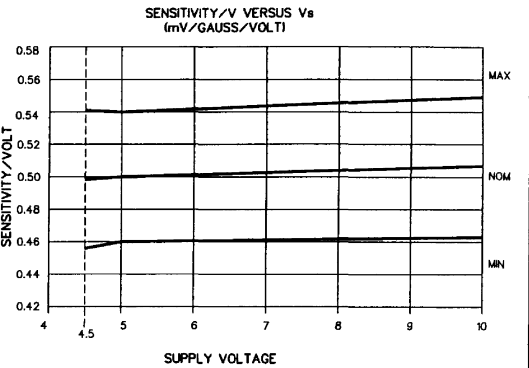
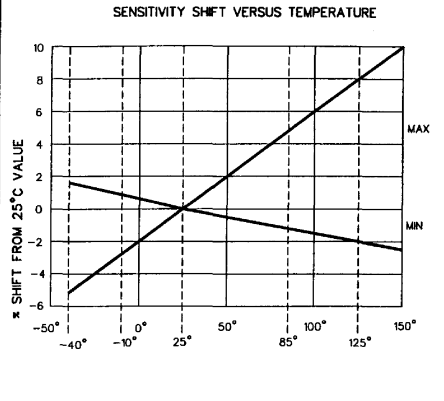
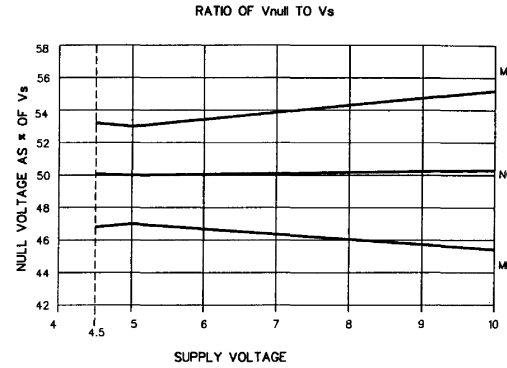
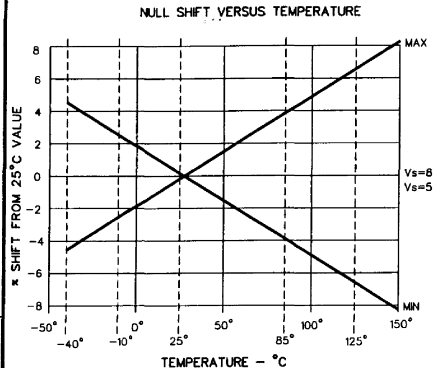
PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
SENSITIVITY	$T_A = 25^{\circ}\text{C}$	2.300	2.500	2.700	mV/GAUSS
NULL	$T_A = 25^{\circ}\text{C}$	2.350	2.50	2.650	VOLTS
SUPPLY CURRENT	$T_A = 25^{\circ}\text{C}$		7	8.7	mA
OUTPUT CURRENT SOURCE	$V_s > 4.5$	1mA	1.5mA		
SINK	$V_s > 4.5$		1.5mA		
SINK	$V_s > 5.0$	1mA	1.5mA		
RESPONSE TIME			3 $\mu$ S		
OUTPUT VOLTAGE SWING					
VOM +	-B APPLIED	.4	.2		VOLTS
VOM -	+B APPLIED	$V_s - .4$	$V_s - .2$		VOLTS
B LIMITS FOR LINEAR OPERATION					GAUSS
-B MAX		-750	-840		
+B MAX		+750	+840		
Vnull DRIFT	$B = 0, T_A = 25^{\circ}\text{C}$ TO $125^{\circ}\text{C}$	-0.64		+0.64	$\% / ^{\circ}\text{C}$
Vnull 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 $+150^{\circ}\text{C}$	-0.02		+0.08	$\% / ^{\circ}\text{C}$
SENSITIVITY DRIFT	$T_A = -40^{\circ}\text{C}$ TO $+25^{\circ}\text{C}$	-0.02		+0.08	$\% / ^{\circ}\text{C}$
LINEARITY	$B = -600$ TO $+600$	0	-1.0	+1.5	$\%$ 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		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**  
Honeywell Division

MINIATURE RATIO-METRIC  
SS496 SERIES CHART 1  
LINEAR HALL EFFECT SENSOR

THIRD ANGLE PROJECTION	
SCALE	NONE
DO NOT SCALE PRINT	
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE	
ONE PLACE	(0) $\pm 0.30$
TWO PLACES	(00) $\pm 0.05$
THREE PLACES	(000) $\pm 0.025$
ANGLES	$\pm 2'$
WEIGHT	

MICRO SWITCH  
 SS496 SERIES CHART 1  
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 REVISIONS  
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