

ABSOLUTE MAXIMUM CHARACTERISTICS \triangle

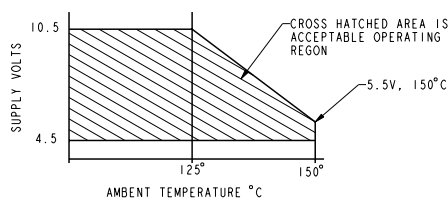
CHARACTERISTICS	SYMBOL	TEST CONDITION	MIN	MAX	UNITS
SUPPLY VOLTAGE	V_s		-0.5	11	V
OUTPUT VOLTAGE	V_{out}		-0.5	11	V
OUTPUT CURRENT	I_{out}	SOURCE OR SINK		10	mA
TEMPERATURE	T_A	OPERATING	-55	150	$^{\circ}C$
	T_s	STORAGE ($V_{cc}=0$)	-55	165	$^{\circ}C$

REV	DOCUMENT	CHANGED BY	CHECK
1	PR-24459	GRT 23MAR00	SAV

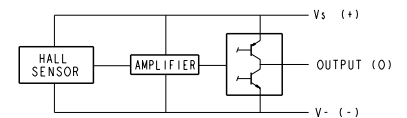
CHARACTERISTICS ARE AT $V_s=5.00$ WITH 4.7K OUTPUT TO MINUS WITH $T_A: -40^{\circ}C$ TO $125^{\circ}C$ UNLESS OTHERWISE SPECIFIED

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
SENSITIVITY	$T_A = 25^{\circ}C$	3.031	3.125	3.219	mV/GAUSS
	$T_A = 25^{\circ}C$	2.425	2.50	2.575	VOLTS
SUPPLY CURRENT	$T_A = 25^{\circ}C$		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 μ S		
OUTPUT VOLTAGE SWING	VOM -		.4		VOLTS
	VOM +	+B APPLIED	$V_s - .4$	$V_s - .2$	VOLTS
	B LIMITS FOR LINEAR OPERATION	-B MAX	-600	-600	GAUSS
	+B MAX	+600	+670	GAUSS	
V_{out} DRIFT	$B = 0, T_A = 25^{\circ}C$ TO $125^{\circ}C$	- .04		+ .04	% / $^{\circ}C$
V_{out} DRIFT	$B = 0, T_A = +125^{\circ}C$ TO $+150^{\circ}C$	- .08		+ .08	% / $^{\circ}C$
SENSITIVITY DRIFT	$T_A = +25^{\circ}C$ TO $+150^{\circ}C$	- .01		+ .05	% / $^{\circ}C$
SENSITIVITY DRIFT	$T_A = -40^{\circ}C$ TO $+25^{\circ}C$	0		+ .06	% / $^{\circ}C$
LINEARITY	$B = -600$ TO $+600$	0	-1.0	-1.5	% OF SPAN
SUPPLY VOLTAGE	$-40^{\circ}C$ TO $+125^{\circ}C$	4.5	5.0	10.5	VOLTS
OPERATING TEMP	SEE MAX TEMPERATURE CHART	-40		+150	$^{\circ}C$

MAXIMUM ALLOWABLE AMBIENT TEMPERATURE



BLOCK DIAGRAM CURRENT SINKING OR SOURCING OUTPUT



- NOTES**
- \triangle MAGNETIC DEFINITION (GAUSS)
 (+) POSITIVE GAUSS REPRESENTS THE SOUTH POLE OF THE MAGNET FACING THE SENSING AREA
 (-) NEGATIVE GAUSS REPRESENTS THE NORTH POLE OF THE MAGNET FACING THE SENSING AREA
 - \triangle LEADWIRE (INDIVIDUAL WIRES) ARE 24 GAGE STRANDED WITH IRRADIATED POLYETHYLENE INSULATION
 - \triangle DATE CODE LOCATED IN THIS AREA
 - \triangle SENSOR WILL BE LOCATED ANYWHERE WITHIN $\phi .025$
 - \triangle CATALOG LISTING LOCATED IN THIS AREA
 - \triangle SENSITIVE AREA IS LOCATED .050 BEHIND THE SENSING FACE
 - \triangle V_s IS THE UNREGULATED SUPPLY VOLTAGE
 - \triangle ABSOLUTE MAXIMUM RATINGS ARE THE EXTREME LIMITS THE DEVICE WILL MOMENTARILY WITHSTAND WITHOUT DAMAGE TO THE DEVICE, ELECTRICAL AND MAGNETIC CHARACTERISTICS ARE NOT GUARANTEED IF THE RATED VOLTAGE AND/OR CURRENTS ARE EXCEEDED NOR WILL THE DEVICE NECESSARILY OPERATE AT ABSOLUTE MAXIMUM RATINGS

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE: <input checked="" type="checkbox"/> MILLIMETER <input type="checkbox"/> INCH	DRAWN	GRT	23MAR00	Honeywell Sensing and Control
NO PLACE .X ±.040 ±.1	CHECK	SAV	23MAR00	
ONE PLACE .XX ±.030 ±0.4	THIS DRAWING COVERS A PROPRIETARY ITEM AND IS THE PROPERTY OF HONEYWELL SENSING AND CONTROL. THIS DRAWING IS NOT TO BE COPIED OR USED WITHOUT THE PERMISSION OF HONEYWELL.			TITLE
TWO PLACE .XXX ±.015 ±0.15	THIRD ANGLE PROJECTION			SOLID STATE, LINEAR OUTPUT MAGNETIC TRANSDUCER (CYLINDRICAL HOUSING)
THREE PLACE .XXX ±.005 ±	DIMENSIONS ARE TO BE MET BEFORE PROTECTIVE COATINGS ARE APPLIED			SIZE (DWG TYPE) DRAWING NAME
ANGLES ±	2D PTC ASME Y14.5M-1994			C M 103SR19A-1
RAW MATERIAL-COMMERCIAL STANDARD	SCALE 3 : 1			REV 1
	WEIGHT			SHEET 1 OF 1