

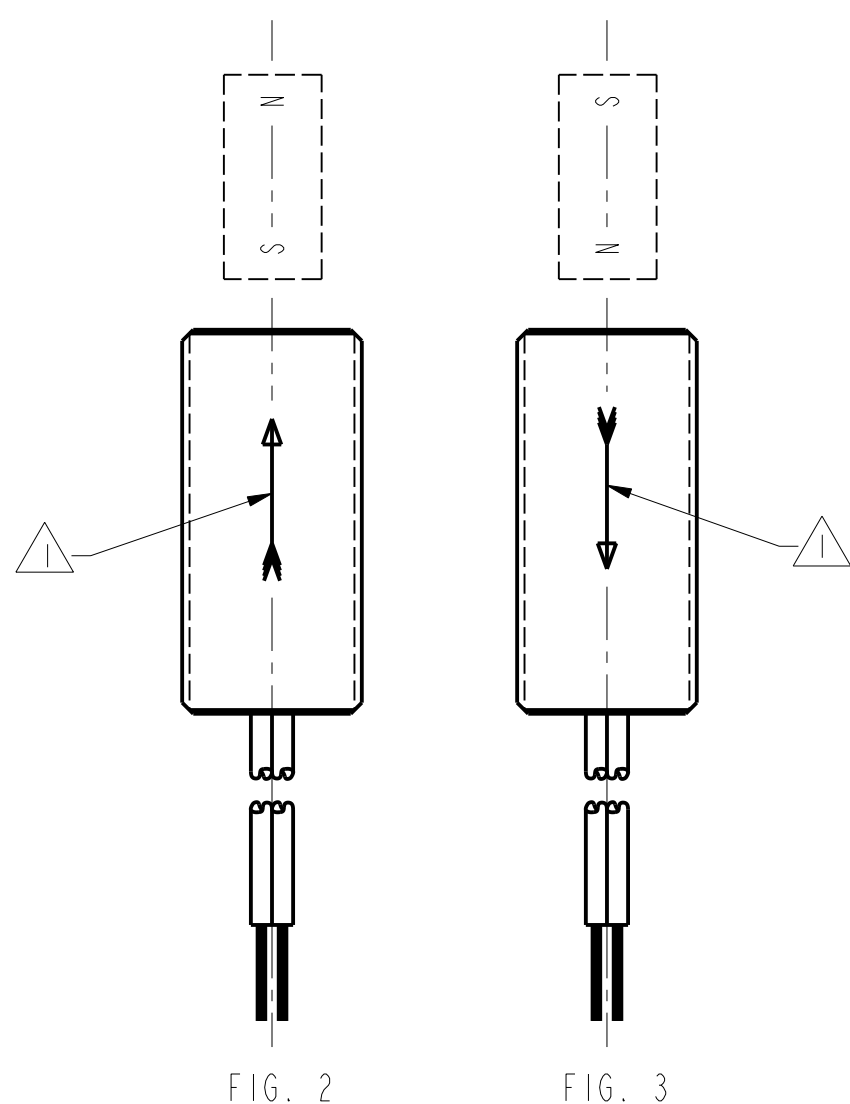
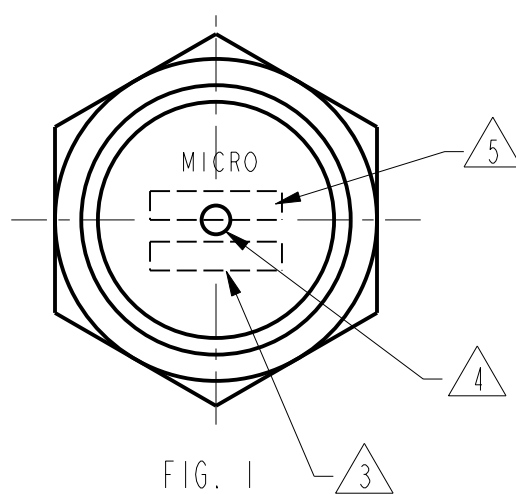
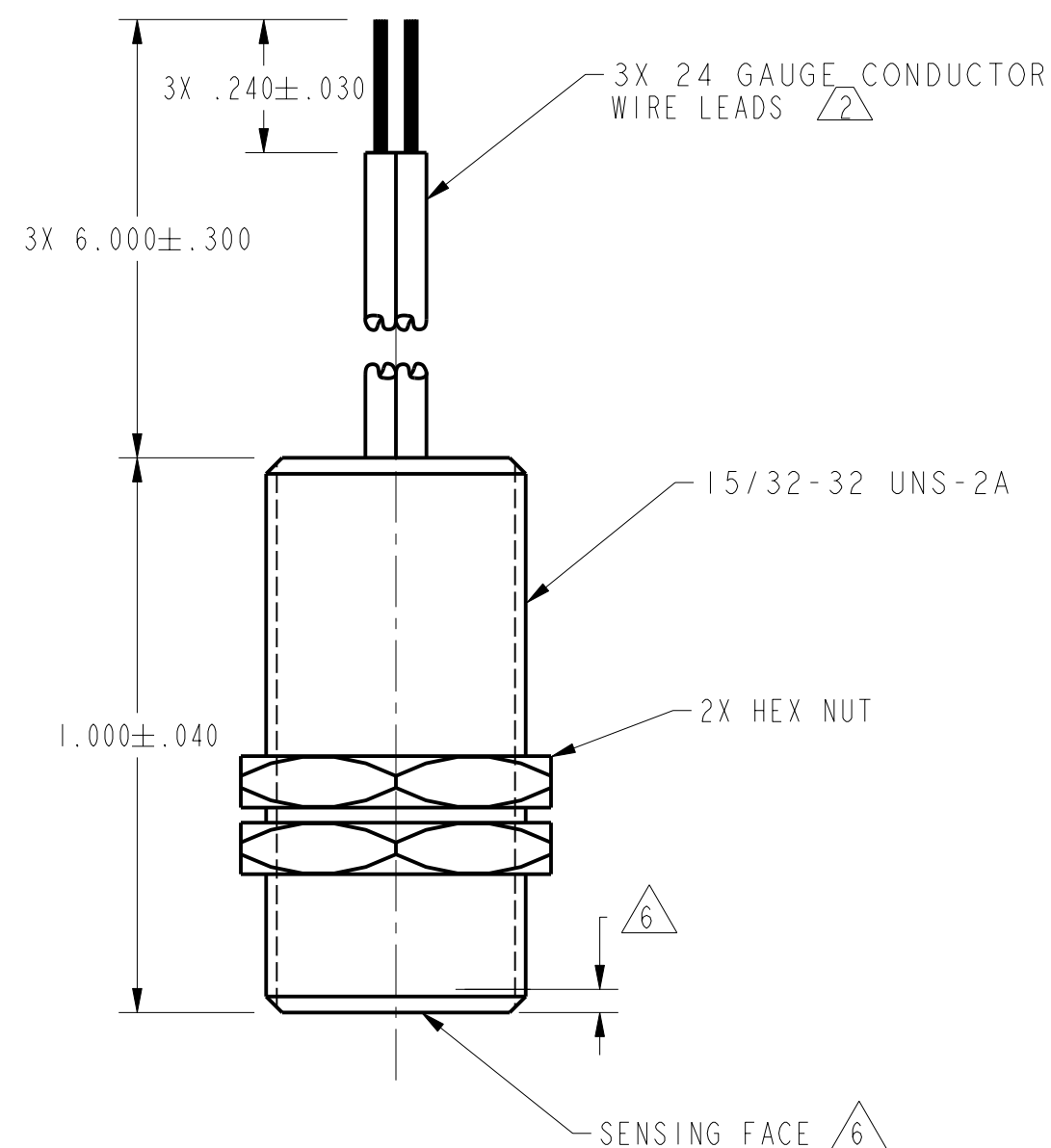
REV	DOCUMENT	CHANGED BY	CHECK
1	PR-24459	GRT 23MAR00	SAV

**ABSOLUTE MAXIMUM CHARACTERISTICS**  $\triangle 8$

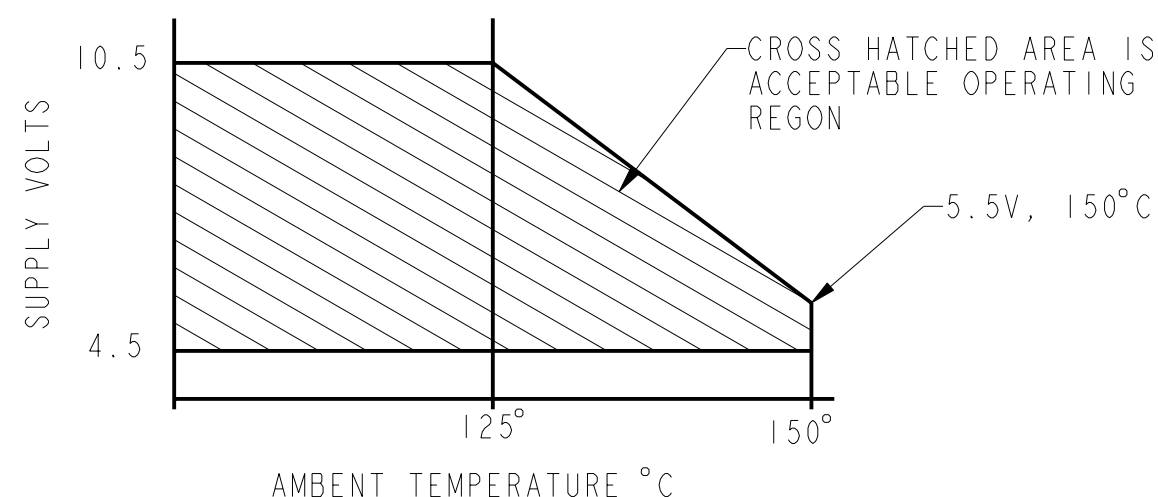
CHARACTERISTICS	SYMBOL	TEST CONDITION	MIN	MAX	UNITS
SUPPLY VOLTAGE	$V_s$ $\triangle 7$		-0.5	11	V
OUTPUT VOLTAGE	$V_{out}$		-0.5	11	V
OUTPUT CURRENT	$I_{out}$	SOURCE OR SINK		10	mA
TEMPERATURE	$T_A$	OPERATING	-55	150	$^{\circ}C$
	$T_s$	STORAGE ( $V_{cc}=0$ )	-55	165	$^{\circ}C$

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

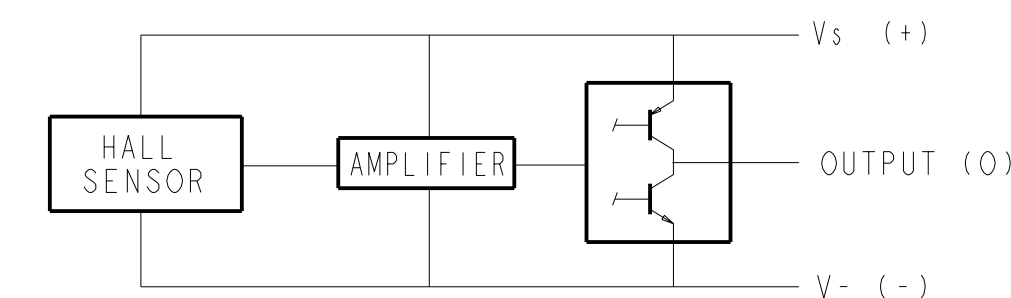
PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
SENSITIVITY	$T_A = 25^{\circ}C$	3.031	3.125	3.219	mV/GAUSS
	$T_A = 25^{\circ}C$	2.425	2.50	2.575	VOLTS
SUPPLY CURRENT	$T_A = 25^{\circ}C$		7	8.7	mA
OUTPUT CURRENT SOURCE	$V_s > 4.5$	1mA	1.5mA		
	$V_s > 4.5$	.6mA	1.5mA		
	$V_s > 5.0$	1mA	1.5mA		
RESPONSE TIME			3 $\mu$ 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	-B MAX	-600	-600		GAUSS
	+B MAX	+600	+670		GAUSS
$V_{null}$ DRIFT	$B = 0, T_A = 25^{\circ}C$ TO $125^{\circ}C$	-.04		+0.04	% $/^{\circ}C$
$V_{null}$ DRIFT	$B = 0, T_A = +125^{\circ}C$ TO $+150^{\circ}C$	-.08		+0.08	% $/^{\circ}C$
SENSITIVITY DRIFT	$T_A = +25^{\circ}C$ TO $+150^{\circ}C$	-.01		+0.05	% $/^{\circ}C$
SENSITIVITY DRIFT	$T_A = -40^{\circ}C$ TO $+25^{\circ}C$	0		+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
- $\triangle 1$  MAGNETIC DEFINITION (GAUSS)  
THE MAGNETIC FIELD DIRECTION IS DEFINED AS FOLLOWS:  
(+) 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
  - $\triangle 2$  LEADWIRE (INDIVIDUAL WIRES) ARE 24 GAGE STRANDED WITH IRRADIATED POLYETHYLENE INSULATION
  - $\triangle 3$  DATE CODE LOCATED IN THIS AREA
  - $\triangle 4$  SENSOR WILL BE LOCATED ANYWHERE WITHIN  $\phi .025$
  - $\triangle 5$  CATALOG LISTING LOCATED IN THIS AREA
  - $\triangle 6$  SENSITIVE AREA IS LOCATED .050 BEHIND THE SENSING FACE
  - $\triangle 7$   $V_s$  IS THE UNREGULATED SUPPLY VOLTAGE
  - $\triangle 8$  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"/> US (inch) CUSTOMARY	<input type="checkbox"/> SI (mm) METRIC	DRAWN	GRT	23MAR00	<b>Honeywell</b> Sensing and Control
NO PLACE	X	$\pm .040$ $\pm 1$	CHECK	SAV	23MAR00	
ONE PLACE	.X	$\pm .030$ $\pm 0,4$	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	.XX	$\pm .015$ $\pm 0,15$				SOLID STATE, LINEAR OUTPUT MAGNETIC TRANSDUCER (CYLINDRICAL HOUSING)
THREE PLACE	.XXX	$\pm .005$ $\pm$	DIMENSIONS ARE TO BE MET BEFORE PROTECTIVE COATINGS ARE APPLIED			SIZE DWG TYPE DRAWING NAME
ANGLES	$\pm$	$\pm$	2D PTC			C M
RAW MATERIAL-COMMERCIAL STANDARD			ASME Y14.5M-1994			103SR19A-1
THIRD ANGLE PROJECTION						REV
						1
SCALE 3 : 1						WEIGHT
SHEET 1 OF 1						