

103**S**R14A-2

OPERATING CHARACTERISTICS 1

GAUSS	
OPERATE MAX	160
RELEASE MIN	5
DIFF MIN	8

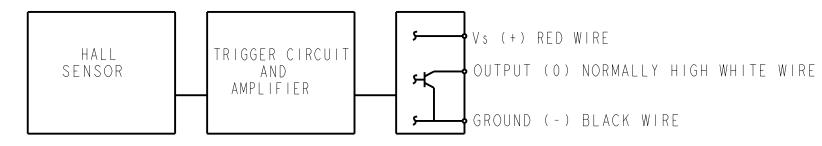
ABSOLUTE MAXIMUM RATINGS

SUPPLY VOLTAGE (Vs) / 🛭	-1.0 VDC TO +25.0 VDC
VOLTAGE EXTERNALLY	+25 VOLTS DC MAX WITH SWITCH IN "OFF" CONDITION ONLY
APPLIED TO OUTPUT	-0.5 VOLTS MAX WITH SWITCH IN "OFF" OR "ON" CONDITION
OUTPUT CURRENT	40 mA (SINK PER OUTPUT)
TEMPERATURE	-40°C TO 100°C
OPERATE AND STORAGE	
MAGNETIC FLUX	NO LIMIT, THE CIRCUIT CANNOT BE DAMAGED BY
	MAGNETIC OVERDRIVE

ELECTRICAL CHARACTERISTICS

	MIN	TYP	MAX	REMARKS
SUPPLY CURRENT 7			10.0 mA	ON CONDITION
OUTPUT VOLTAGE (OPERATED) /4			0.4 V	SINKING 20 mA PER OUTPUT
OUTPUT LEAKAGE CURRENT (RELEASED) 4			20µ A	LEAKAGE INTO SWITCH OUTPUT
OUTPUT SWITCHING TIME (SINKING 20 mA)			L	
RISE TIME <u>4</u> FALL TIME			0.5 u SEC	10% TO 90% 90% TO 10%

NOTE: THIS DEVICE IS NOT PROTECTED AGAINST HIGH ELECTRICAL NOISE. IF ERRATIC OPERATION OCCURS AFTER INSTALLATION, INSTALL A CAPACITOR ACROSS THE INPUT TERMINALS (O.I MFD). IF ERRATIC OPERATION CONTINUES, YOU MAY HAVE TO USE THE INDUSTRIAL DEVICES THAT MICRO SWITCH MANUFACTURES. PLEASE CONTACT YOUR LOCAL FIELD REPRESENTATIVE FOR INFORMATION.



BLOCK DIAGRAM SHOWING CURRENT SINKING OUTPUTS

FLUX ENTERING THE SOUTH POLE OF THE MAGNET WILL OPERATE THE SENSOR WHEN MAGNET IS POSITIONED AS SHOWN IN FIGURE 2. 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

22 GAUGE PVC INSULATED CONDUCTORS WITH MOLDED PVC JACKET

DATE CODE LOCATED IN THIS AREA

FROM -40°C TO 100°C AND 4.5 TO 24 VOLTS
CATALOG LISTING LOCATED IN THIS AREA
SENSITIVE AREA IS LOCATED .050 BEHIND THE SENSING FACE

AT 24±2°C

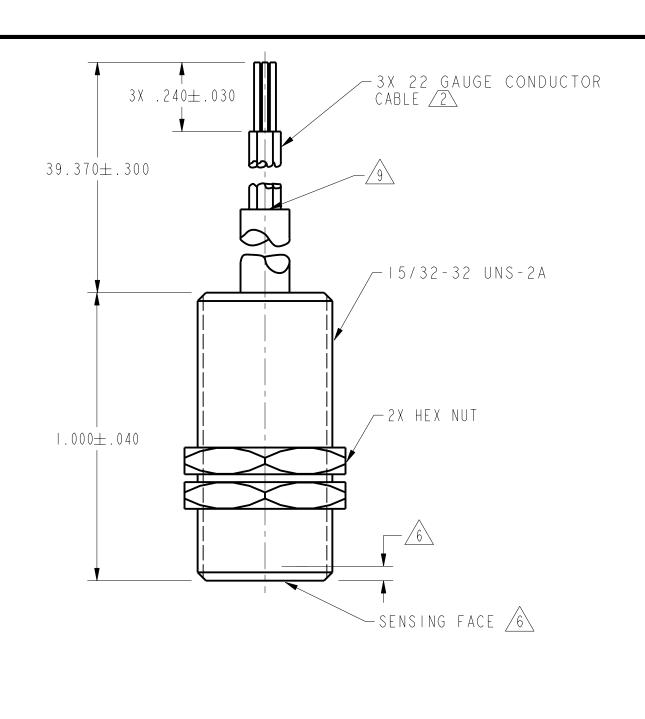
Vs IS THE UNREGULATED SUPPLY VOLTAGE

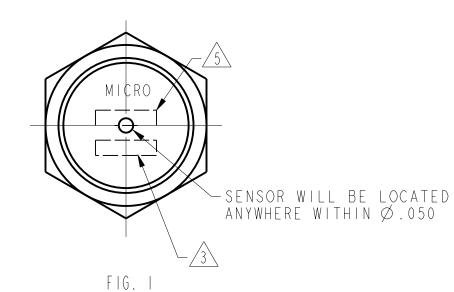
JACKET IS CUT BACK 1.37 INCHES FROM FREE END OF LEADS



THIRD ANGLE PROJECTION

⊕ -=-DO NOT SCALE PRINT UNLESS OTHERWISE SPECIFIED TOLERANCES ARE THIS DRAWING COVERS A PROPRIETARY ITEM AND IS THE PROPERTY OF MICRO SWITCH. A DIVISION OF ONE PLACE (.0) \pm .030 HONEYWELL. THIS DRAWING IS NOT TO BE COPIED OR USED WITHOUT THE APPROVAL OF MICRO SWITCH. TWO PLACES (.00) ±.015 CATALOG LISTING **MAGNETICALLY** MICRO SWITCH THREE PLACES (.000) ± .005



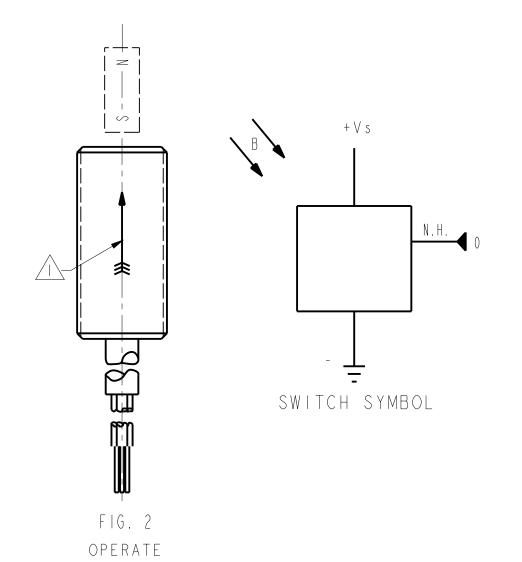


M 1035R14A-2

DR AW I NG NUMBER

8

A 201747 JLH DEC00



ANSI YI4.5M-1982 APPLIES

a Honeywell Division FED. MFG. CODE 91929

OPERATED CYLINDRICAL HALL SWITCH

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ANGLES WEIGHT