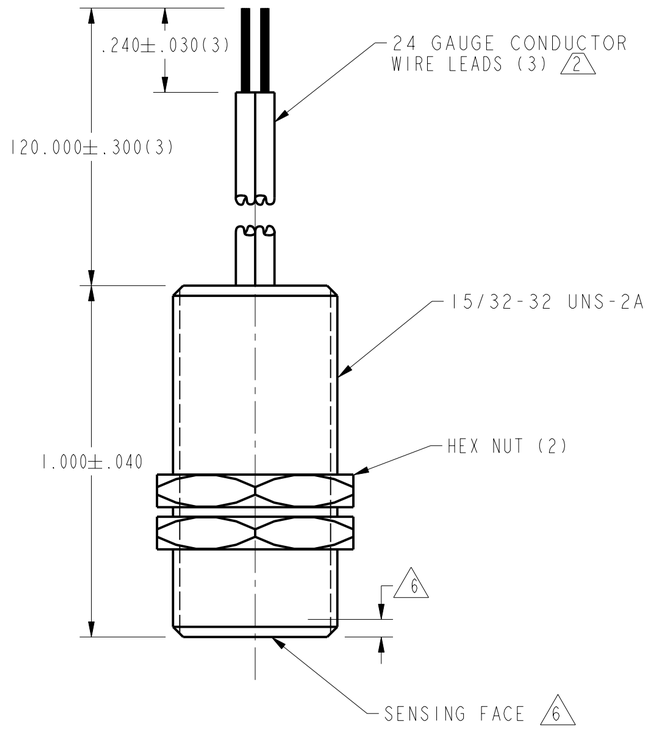
4.5 TO 24 VDC UNIPOLAR DEVICE



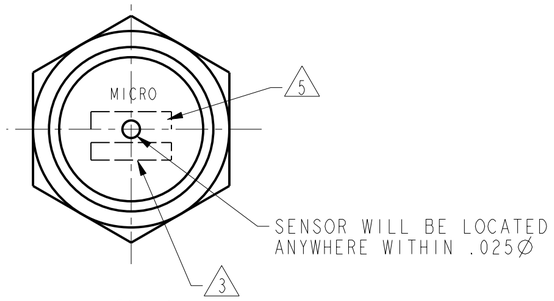


FIG. 1

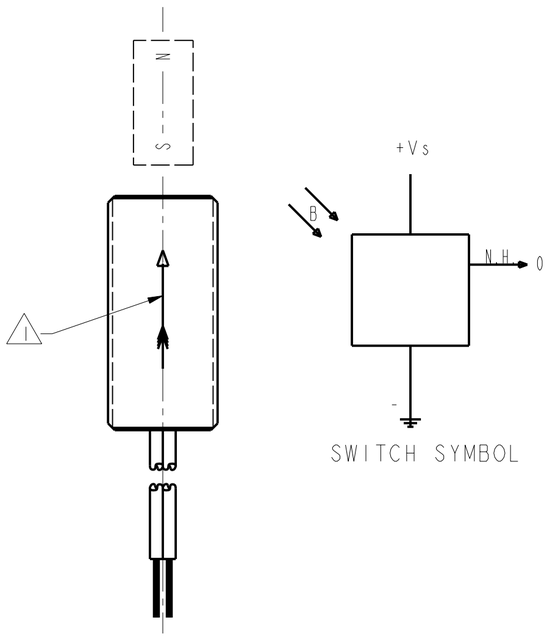


FIG. 2
OPERATE

SWITCH SYMBOL

OPERATING CHARACTERISTICS 1 4

GAUSS	
OPERATE MAX	495
RELEASE MIN	200
DIFF MIN	35

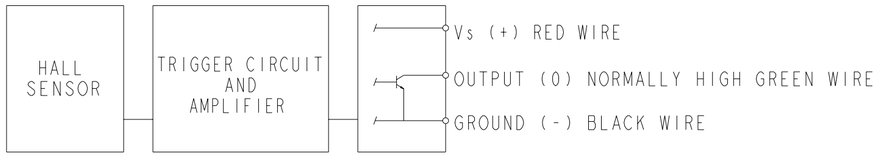
ABSOLUTE MAXIMUM RATINGS

SUPPLY VOLTAGE (Vs) 8	-1.0 VDC TO +25.0 VDC
VOLTAGE EXTERNALLY APPLIED TO OUTPUT	+25 VOLTS DC MAX WITH SWITCH IN "OFF" CONDITION ONLY -0.5 VOLTS MAX WITH SWITCH IN "OFF" OR "ON" CONDITION
OUTPUT CURRENT	40 mA (SINK PER OUTPUT)
TEMPERATURE OPERATE AND STORAGE	-40° C TO 100° C
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)			0.4 V	SINKING 20 mA PER OUTPUT
OUTPUT LEAKAGE CURRENT (RELEASED)			20μ A	LEAKAGE INTO SWITCH OUTPUT
OUTPUT SWITCHING TIME (SINKING 20 mA) RISE TIME 4 FALL TIME			 1.5μ SEC 0.5μ 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 (0.1 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

NOTES
1. 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
2. LEADWIRES (INDIVIDUAL WIRES) ARE 24 GAGE STRANDED WITH IRRADIATED POLYETHYLENE INSULATION
3. DATE CODE LOCATED IN THIS AREA
4. FROM -40° C TO 100° C AND 4.5 TO 24 VOLTS
5. CATALOG LISTING LOCATED IN THIS AREA
6. SENSITIVE AREA IS LOCATED .050 BEHIND THE SENSING FACE
7. AT 24°±2° C
8. Vs IS THE UNREGULATED SUPPLY VOLTAGE

CAUTION ELECTROSTATIC SENSITIVE DEVICES DO NOT OPEN OR HANDLE EXCEPT AT A STATIC FREE WORKSTATION
ESD SENSITIVITY: CLASS 3

ANSI Y14.5M-1982 APPLIES

MICRO SWITCH a Honeywell Division
FED. MFG. CODE 91929

MAGNETICALLY OPERATED CYLINDRICAL HALL SWITCH

CATALOG LISTING
103SR13A-6

THIRD ANGLE PROJECTION
SCALE 3 : 1
DO NOT SCALE PRINT
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE
ONE PLACE (.0) ±.030
TWO PLACES (.00) ±.015
THREE PLACES (.000) ±.005
ANGLES ±
WEIGHT

REVISIONS			
A	C095082A	TSM	27JUL99
B	201747	JLH	DEC00

PTC/CAD	2D		
DRAWN	TSM	27JUL99	
CHECK	JAF	27JUL99	
CHECK			
CHECK			
CHECK			
ISSUE	8		
DRAWING NUMBER	103SR13A-6		
RELEASE NO.	PR-6122		
PAGE	1 OF 1		
REPLACES			