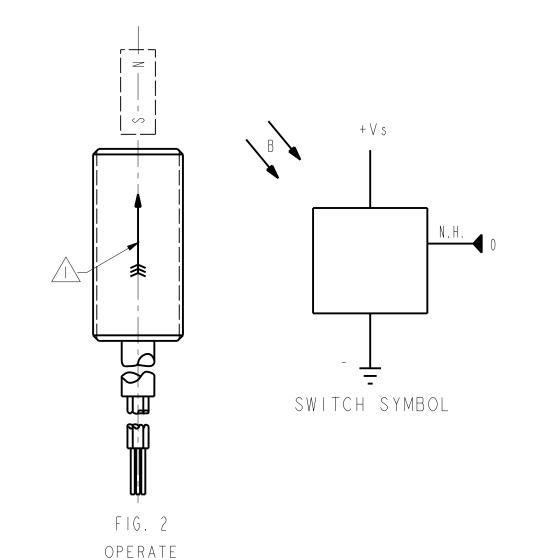


103SR13A-8

DR AW I NG NUMBER

2

-SENSING FACE 👍



OPERATING CHARACTERISTICS 1

GAUSS	
OPERATE MAX	495
RELEASE MIN	200
DIFF MIN	35

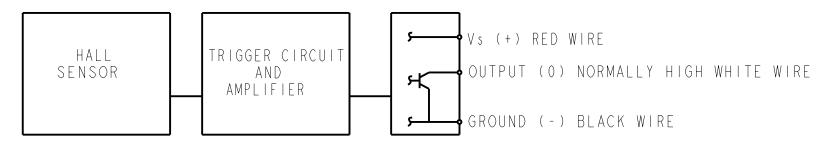
ABSOLUTE MAXIMUM RATINGS

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			10.0mA	ON CONDITION
OUTPUT VOLTAGE			0.4 V	SINKING 20 mA PER OUTPUT
(OPERATED)				
OUTPUT LEAKAGE			20µ A	LEAKAGE INTO SWITCH OUTPUT
CURRENT (RELEASED)				
OUTPUT SWITCHING TIME				
(SINKING 8 mA)				
RISE TIME <u>4</u>			I.5u SEC	10% TO 90%
FALL TIME			0.5 µ SEC	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

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

77\ AT 24°±2°C

8 Vs IS THE UNREGULATED SUPPLY VOLTAGE

JACKET IS CUT BACK 1.37 INCHES FROM FREE END OF LEADS



THIRD ANGLE PROJECTION

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NAACNIETICALLY

CATALOG LISTING

a Honeywell Division

MAGNETICALLY
OPERATED CYLINDRICAL
HALL SWITCH

103**S**R13A-8

SCALE 3: |

DO NOT SCALE PRINT

UNLESS OTHERWISE SPECIFIED

TOLERANCES ARE

ONE PLACE (.0) ± .030

TWO PLACES (.00) ± .015

THREE PLACES (.000) ± .005

ANGLES ±

ANSI YI4.5M-1982 APPLIES