

## **Excellent Integrated System Limited**

Stocking Distributor

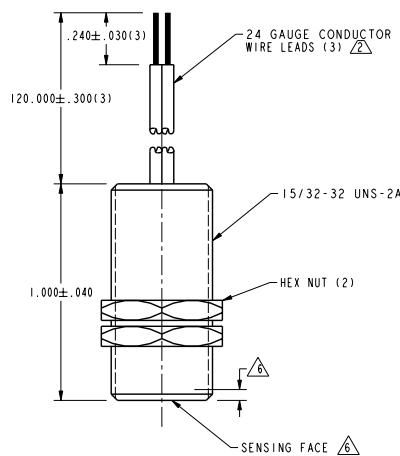
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[103SR13A-6](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)



4.5 TO 24 VDC UNIPOLAR DEVICE

OPERATING CHARACTERISTICS

GAUSS	
OPERATE MAX	495
RELEASE MIN	200
DIFF MIN	35

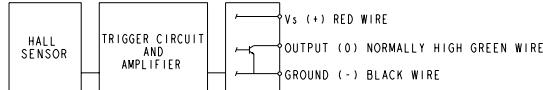
ABSOLUTE MAXIMUM RATINGS

SUPPLY VOLTAGE (Vs) / (B)	-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

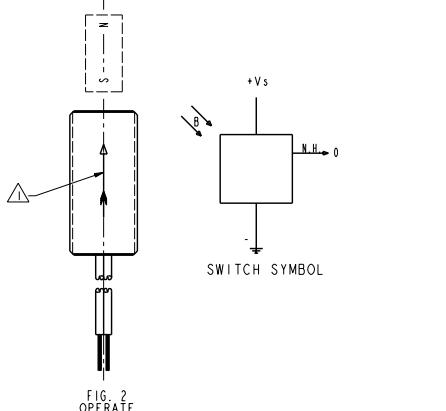
ELECTRICAL CHARACTERISTICS

SUPPLY CURRENT	MIN	TYP	MAX	REMARKS
OUTPUT VOLTAGE			10.0 mA	ON CONDITION
OUTPUT RATE			0.4 V	SINKING 20 mA PER OUTPUT
OUTPUT LEAKAGE CURRENT (DC FASED)			20μA	LEAKAGE INTO SWITCH OUTPUT
OUTPUT SWITCHING TIME (SINKING 20 mA) RISE TIME 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



SWITCH SYMBOL

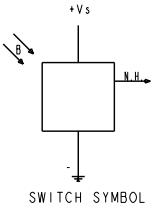


FIG. 2  
OPERATE



ANSI Y14.5M-1982 APPLIES

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.

LEAD LENGTH (1) AND (2) ARE 24 GAGE STRANDED WITH IRRADIATED POLYETHYLENE INSULATION

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 24.5°C

Vs IS THE UNREGULATED SUPPLY VOLTAGE

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MICRO SWITCH  
a Honeywell Division

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	(.01) ± .030
TWO PLACES	(.001) ± .015
THREE PLACES	(.000) ± .005
ANGLES	±
WEIGHT	