

OPERATING CHARACTERISTICS

GAUSS	
OPERATE MAX	495
RELEASE MIN	200
DIFF MIN	35

SUPPLY VOLTAGE (V _s)	-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	20 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

	MIN	TYP	MAX	REMARKS
SUPPLY CURRENT $\triangle 7$			10.0 mA	ON CONDITION
OUTPUT VOLTAGE (OPERATED) $\triangle 4$			0.4 V	SINKING 20 mA PER OUTPUT
OUTPUT LEAKAGE CURRENT (RELEASED) $\triangle 4$			20 μ A	LEAKAGE INTO SWITCH OUTPUT
OUTPUT SWITCHING TIME (SINKING 20 mA) RISE TIME $\triangle 4$ FALL TIME			1.5 μ SEC 0.5 μ SEC	10% TO 90% 90% TO 10%

Diagram illustrating the wiring for the Hall sensor trigger circuit:

- HALL SENSOR** is connected to the **TRIGGER CIRCUIT AND AMPLIFIER**.
- The **TRIGGER CIRCUIT AND AMPLIFIER** is connected to the **OUTPUT (O) NORMALLY HIGH WHITE WIRE**.
- The **TRIGGER CIRCUIT AND AMPLIFIER** is also connected to the **GROUND (-) BLACK WIRE**.
- The **TRIGGER CIRCUIT AND AMPLIFIER** is connected to the **Vs (+) RED WIRE**.

NOTES

- | NOTES | |
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| 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 | 22 GAUGE PVC INSULATED CONDUCTORS WITH MOLDED PVC JACKET |
| 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 | V _S IS THE UNREGULATED SUPPLY VOLTAGE |
| 9 | JACKET IS CUT BACK 1.37 INCHES FROM FREE END OF LEADS |

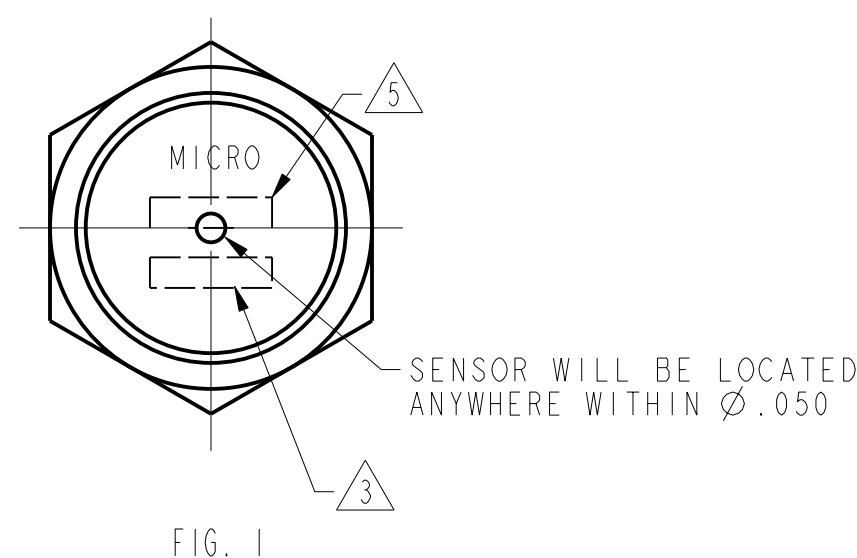
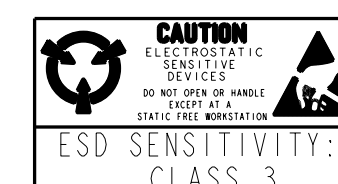


FIG. 1

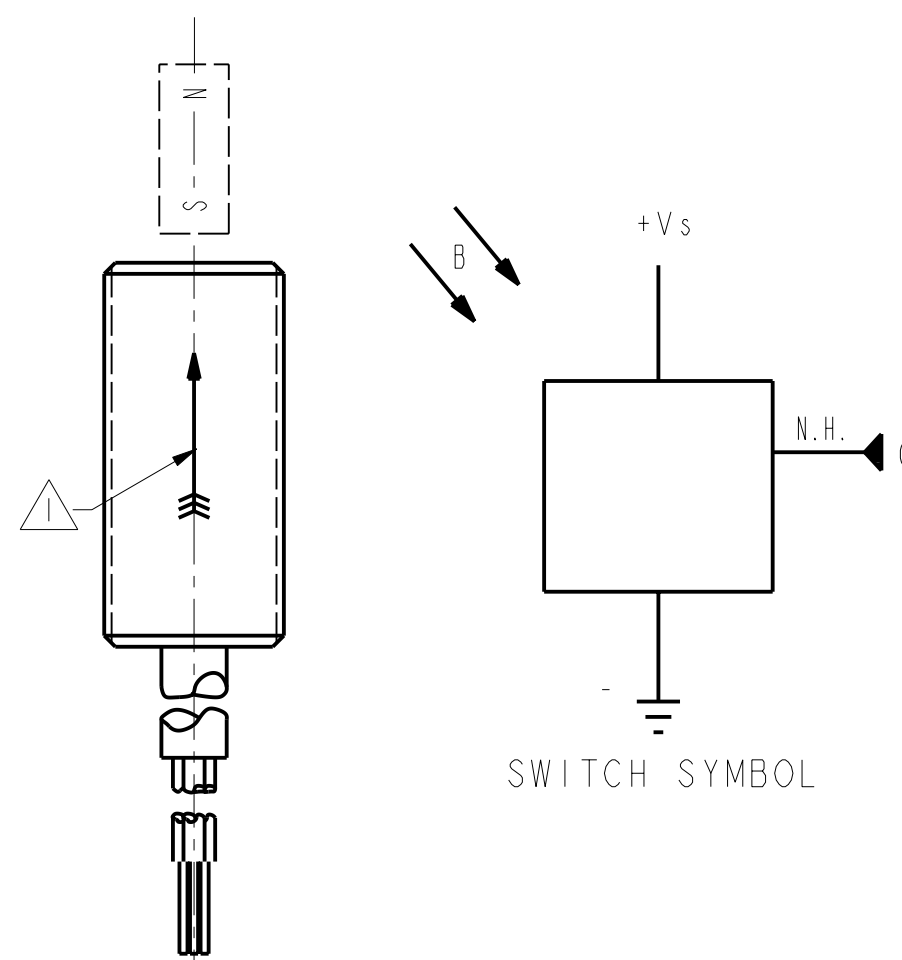


FIG. 2
OPERATE

SWITCH SYMBOL

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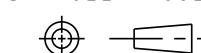
MICRO SWITCH
a Honeywell Division

MAGNETICALLY OPERATED CYLINDRICAL HALL SWITCH

CATALOG LISTING

103SR13A-12

THIRD ANGLE PROJECTION



SCALE 3:1

DO NOT SCALE PRINT

UNLESS OTHERWISE SPECIFIED
TOLERANCES ARE

ONE PLACE (.0) $\pm .030$

TWO PLACES	(.00)	+ 0.15
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TWO PLACES	(.007)	±.015
THREE PLACES	(.000)	±.004

THREE PLACES (0.000)	± 0.005
ANGLES	+

WEIGHT

ANSI Y14.5M-1982 APPLIES

FED MEG CODE 91939