

OPERATING CHARACTERISTICS

GAUSS	
OPERATE MAX	495
RELEASE MIN	200
DIFF MIN	35

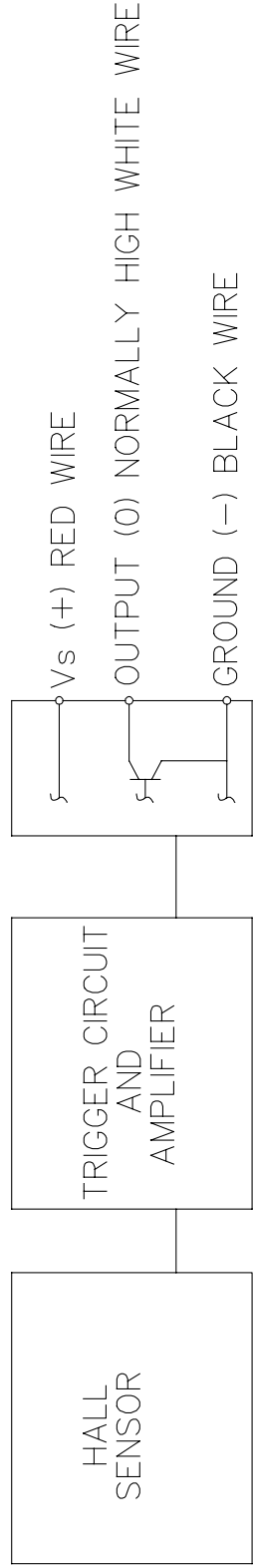
ABSOLUTE MAXIMUM RATINGS

SUPPLY VOLTAGE (Vs)	-1.0 VDC TO +25.0 VDC
VOLTAGE EXTERNALLY 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

ELECTRICAL CHARACTERISTICS

	MIN	TYP	MAX	REMARKS
SUPPLY CURRENT			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			1.5μSEC	10% TO 90%
FALL TIME			0.5 μSEC	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 AT 24±2°C
- Vs IS THE UNREGULATED SUPPLY VOLTAGE
- JACKET IS CUT BACK 1.37 INCHES FROM FREE END OF LEADS

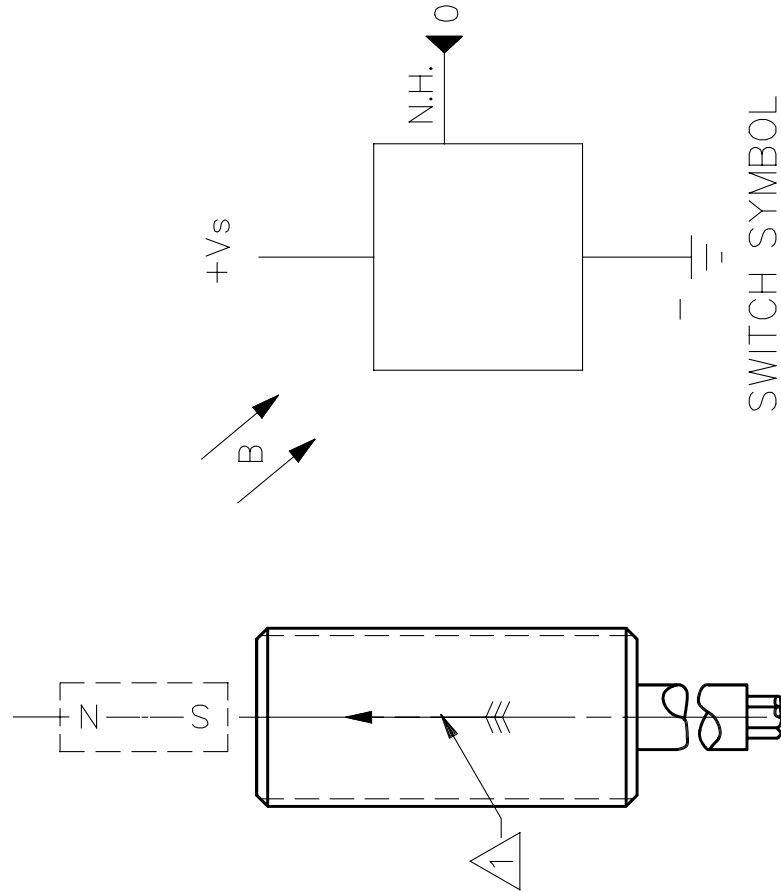
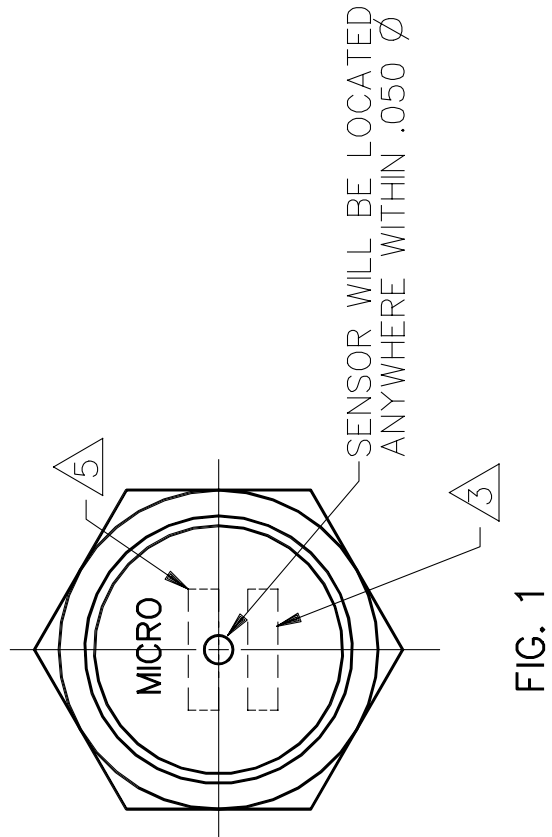
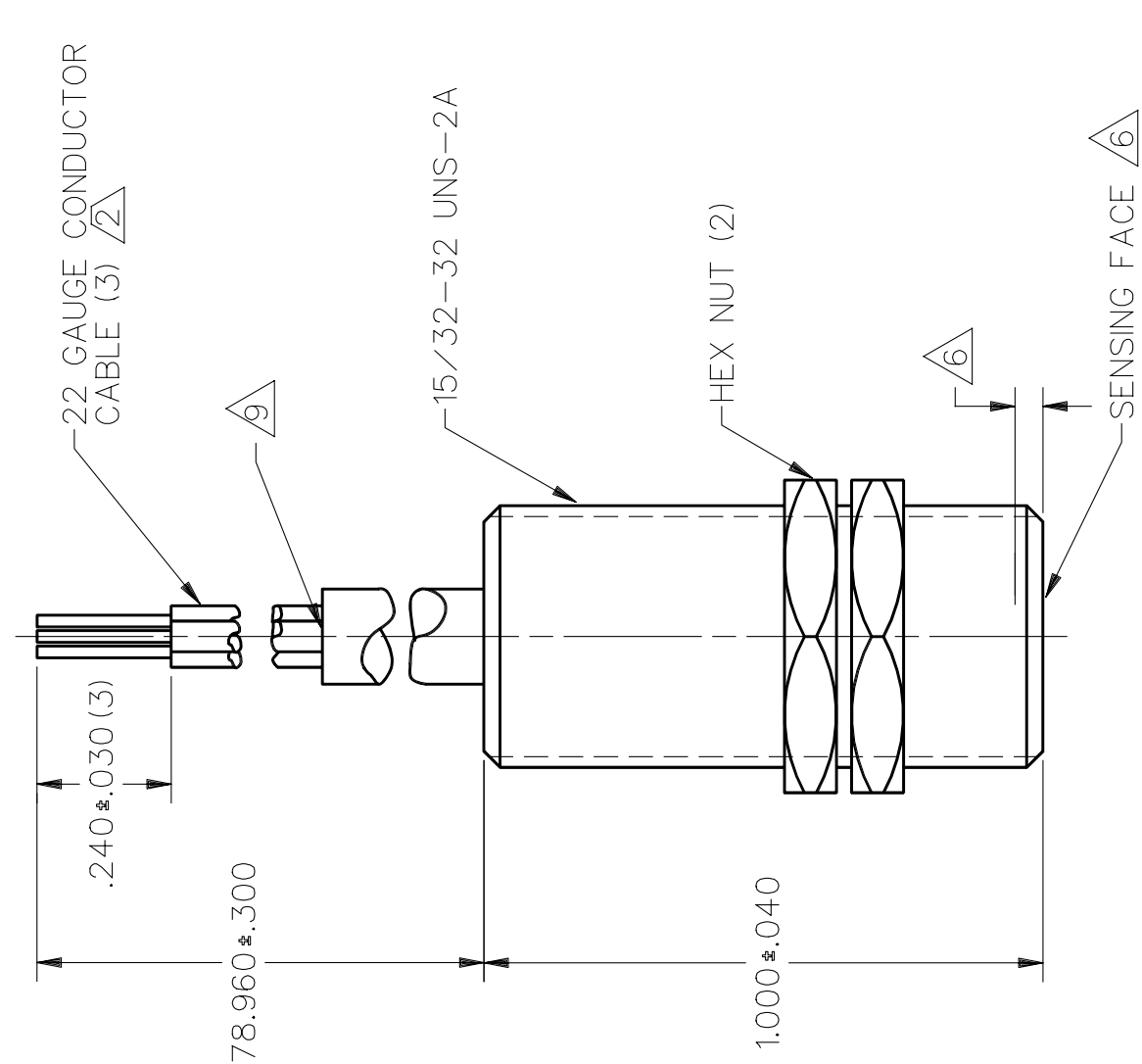


FIG. 2
OPERATE

THIS DRAWING COVERS A PROPRIETARY ITEM AND IS THE PROPERTY OF MICRO SWITCH. A DIVISION OF HONEYWELL. THIS DRAWING IS NOT TO BE COPIED OR USED WITHOUT THE APPROVAL OF MICRO SWITCH.	CATALOG LISTING
MICRO SWITCH a Honeywell Division	MAGNETICALLY OPERATED CYLINDRICAL HALL SWITCH
103SR13A-12	

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

OPERATING CHARACTERISTICS

GAUSS	
OPERATE MAX	495
RELEASE MIN	200
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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** (Left box)
- TRIGGER CIRCUIT AND AMPLIFIER** (Middle box)
- Wiring Connections:**
 - Vs (+) RED WIRE** (Top terminal)
 - OUTPUT (O) NORMALLY HIGH WHITE WIRE** (Middle terminal)
 - GROUND (-) BLACK WIRE** (Bottom terminal)

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

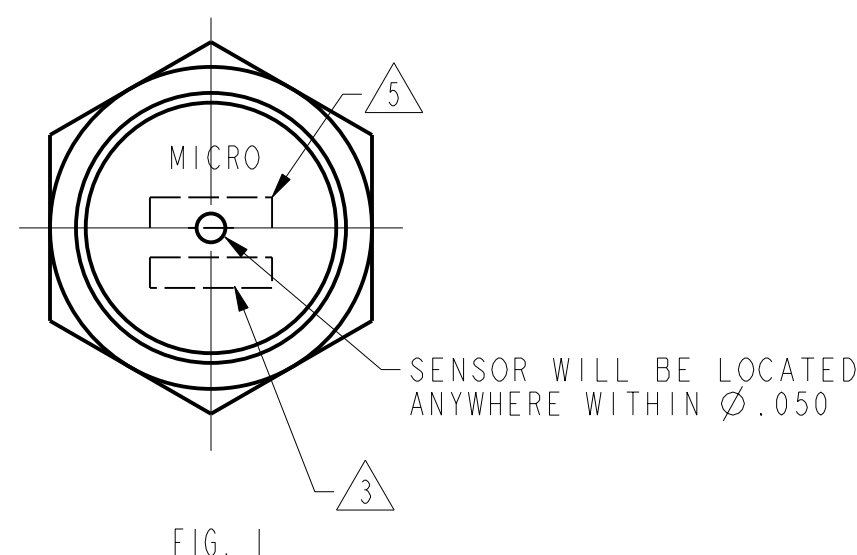
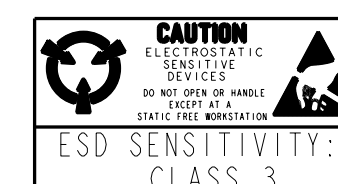


FIG. 1

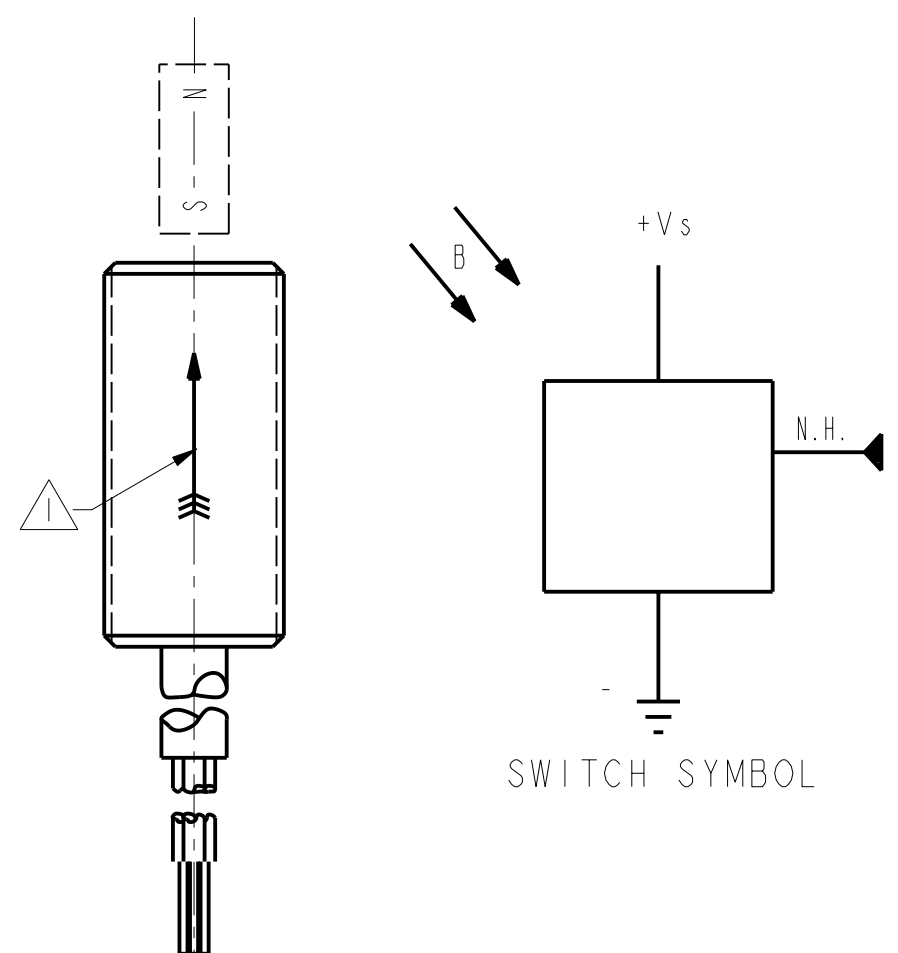


FIG. 2
OPERATE

SWITCH SYMBOL

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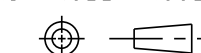
MICRO SWITCH
a Honeywell Division

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) $\pm .030$

ONE PLACE	(.0)	+ .050
TWO PLACES	(.00)	+ .015

TWO PLACES	(.00)	±.015
THREE PLACES	(.000)	±.005

THREE PLACES (.000) $\pm .005$

WEIGHT

ANSI Y14.5M-1982 APPLIES

FED MEG CODE 91939



**Стандарт
Электрон
Связь**

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Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

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С нами вы становитесь еще успешнее!

Наши контакты:

Телефон: +7 812 627 14 35

Электронная почта: sales@st-electron.ru

Адрес: 198099, Санкт-Петербург,
Промышленная ул, дом № 19, литера Н,
помещение 100-Н Офис 331