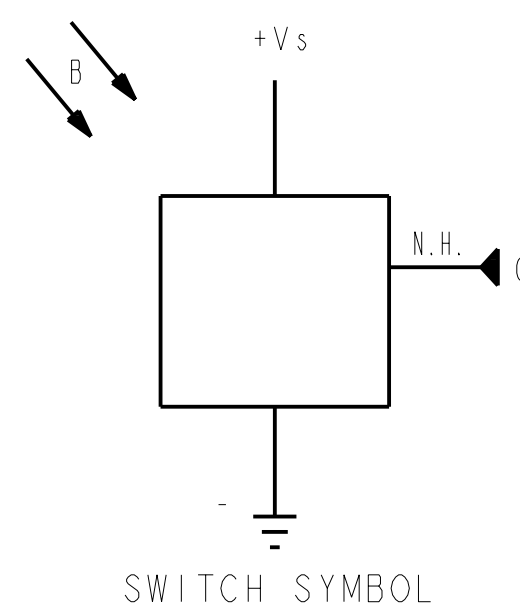
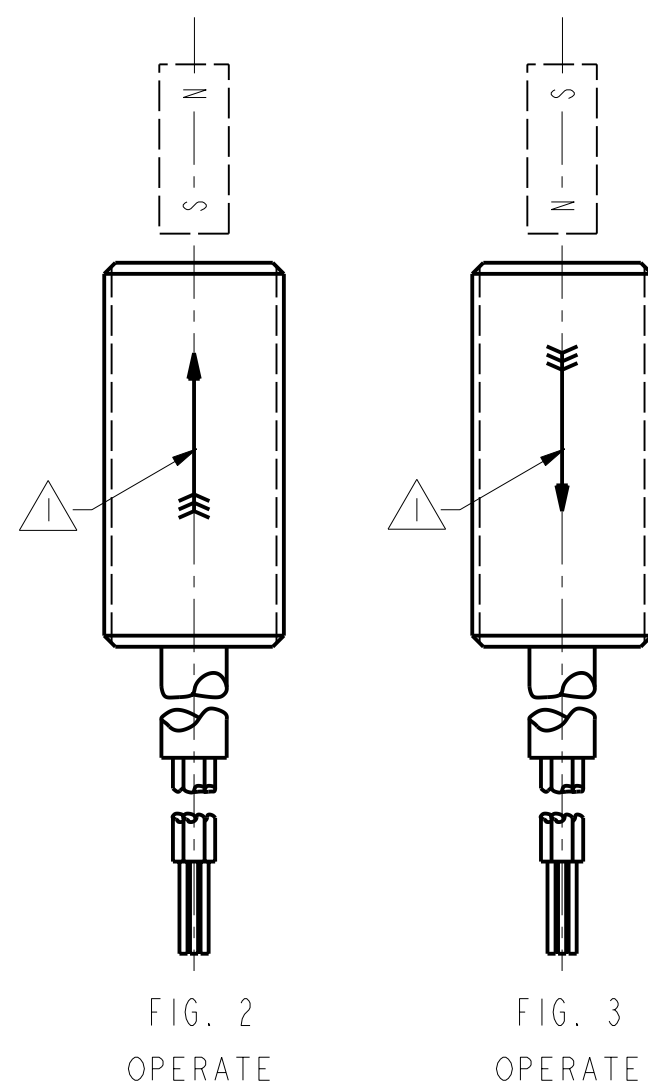
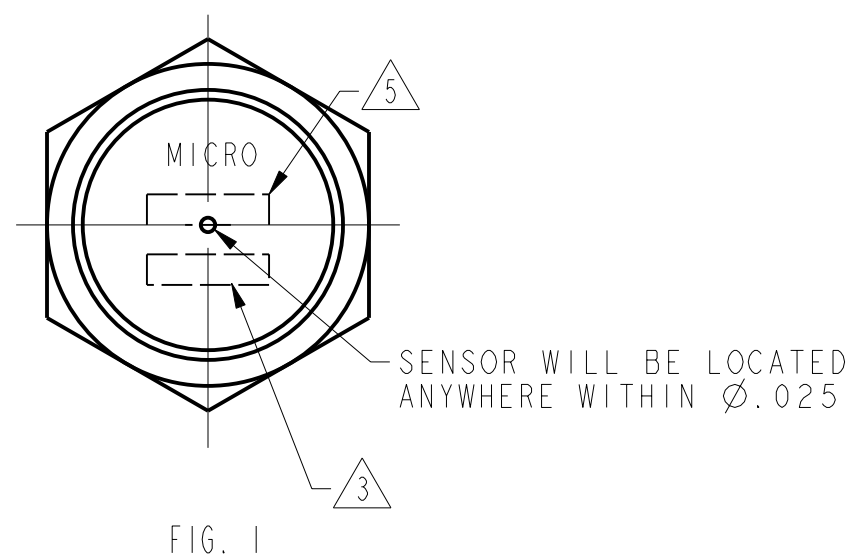
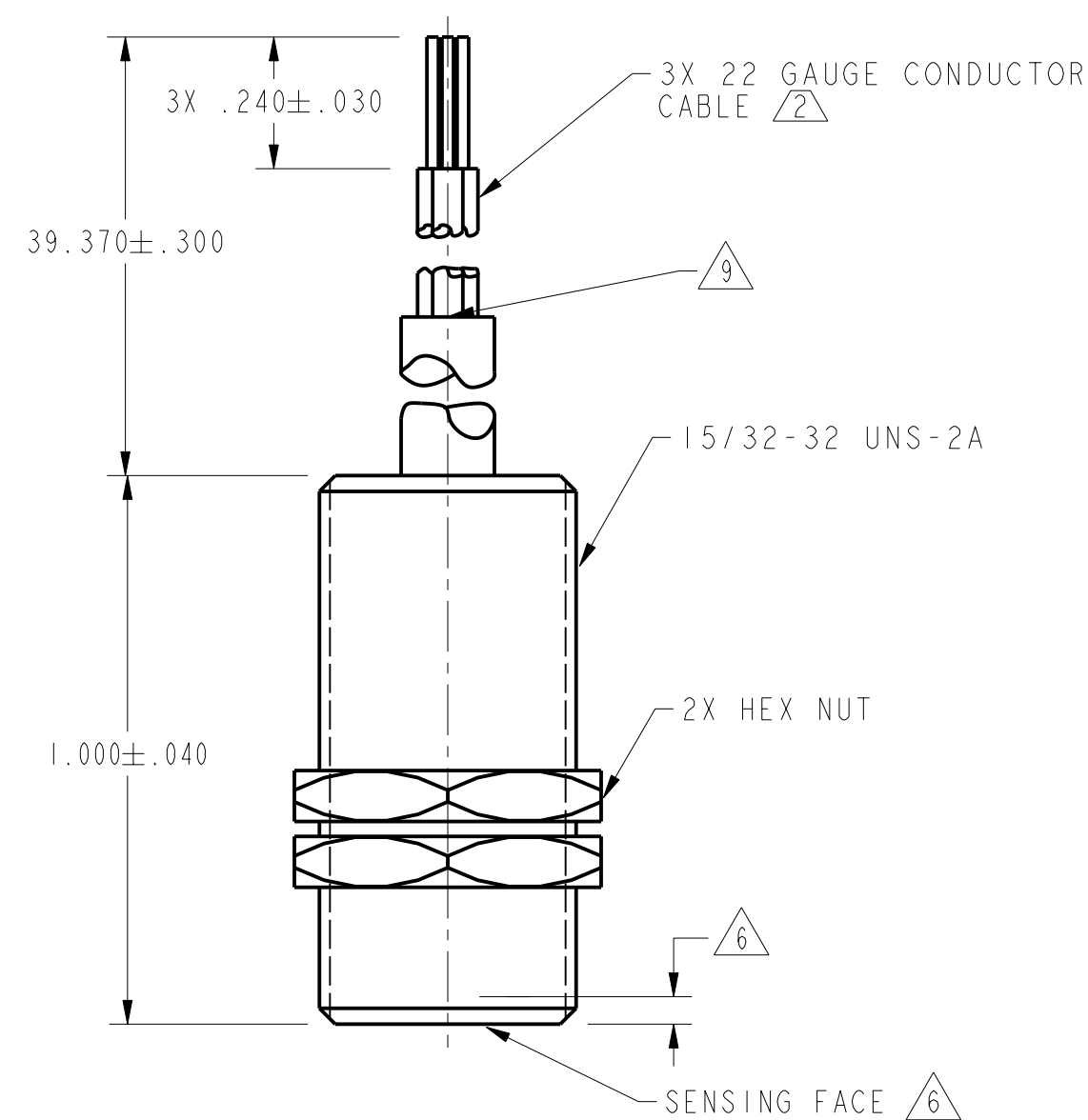


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RELEASE NO. PR-4600  
REPLACES



4.5 TO 24 VDC BIPOLAR DEVICE

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103SR17A-2

## OPERATING CHARACTERISTICS

GAUSS	
OPERATE MAX	205
RELEASE MIN	-205
DIFF MIN	35

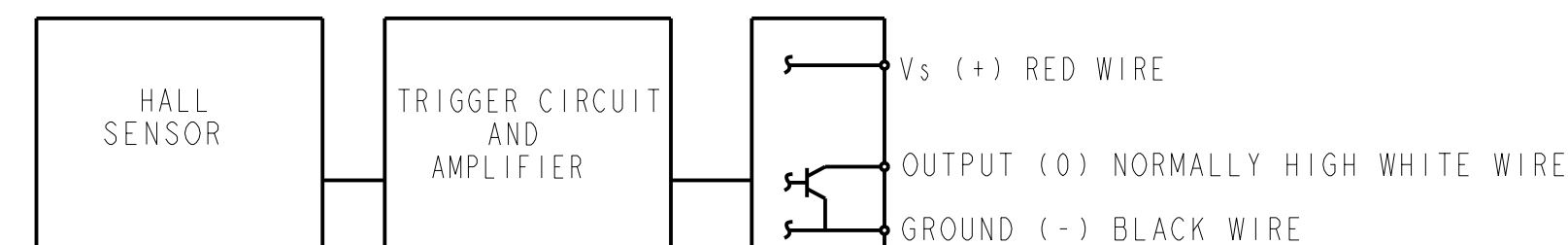
## ABSOLUTE MAXIMUM RATINGS

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			10.0mA	ON CONDITION
OUTPUT VOLTAGE (OPERATED)			0.4V	SINKING 20 mA PER OUTPUT
OUTPUT LEAKAGE CURRENT (RELEASED)			20µ A	LEAKAGE INTO SWITCH OUTPUT
OUTPUT SWITCHING TIME (SINKING 20 mA)				
RISE TIME			1.5µ SEC	10% TO 90%
FALL TIME			0.5µ 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. BIPOLAR DEVICES REQUIRE THE PRESENTATION OF BOTH SOUTH AND NORTH POLES IN ORDER TO ENSURE SENSORS OPERATE AND RELEASE RESPECTIVELY (FIGURES 2 & 3)
- 22 GAUGE WITH XLPE 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



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			

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**MICRO SWITCH**  
a Honeywell Division

**MAGNETICALLY  
OPERATED CYLINDRICAL  
HALL SWITCH**

CATALOG LISTING  
**103SR17A-2**

ANSI Y14.5M-1982 APPLIES

FED. MFG. CODE 91929