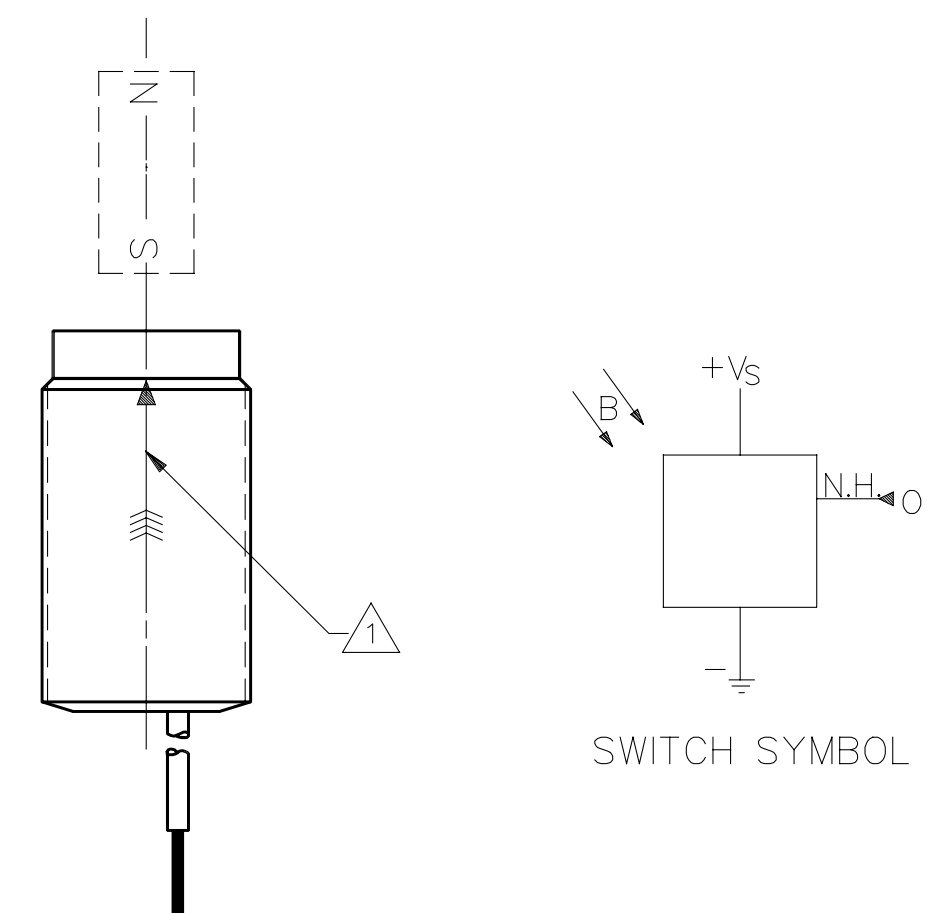
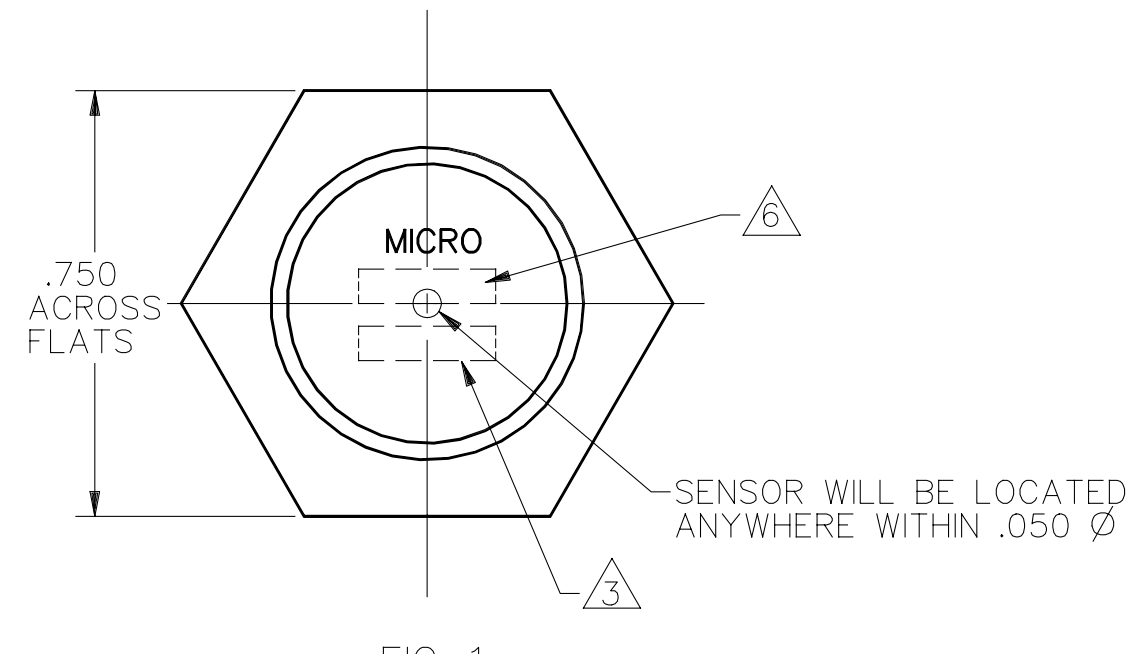
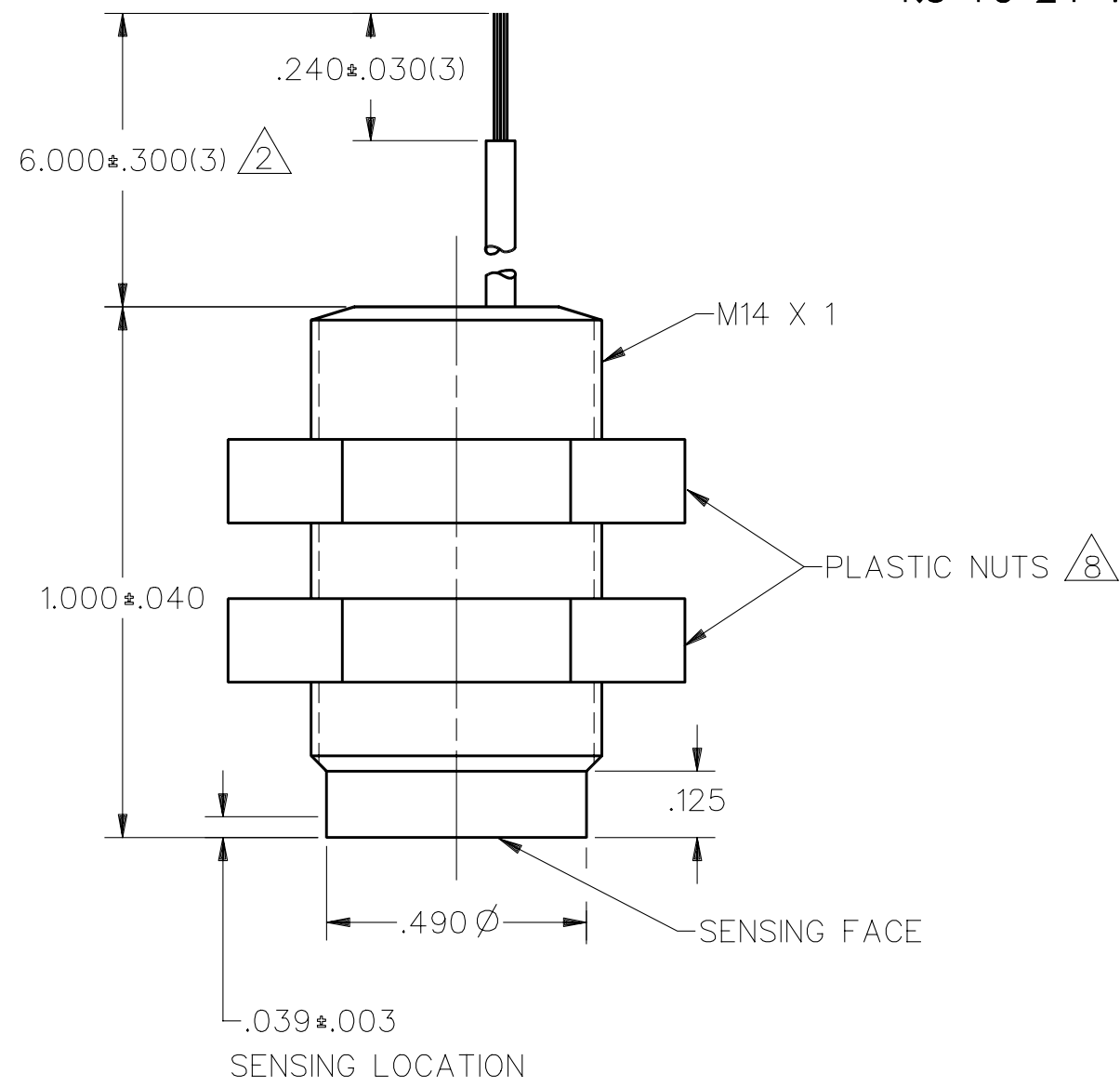


4.5 TO 24 VDC UNIPOLAR DEVICE

MAGNETIC CHARACTERISTICS  $\triangle 1$   $\triangle 5$

**M** SR3G-A1



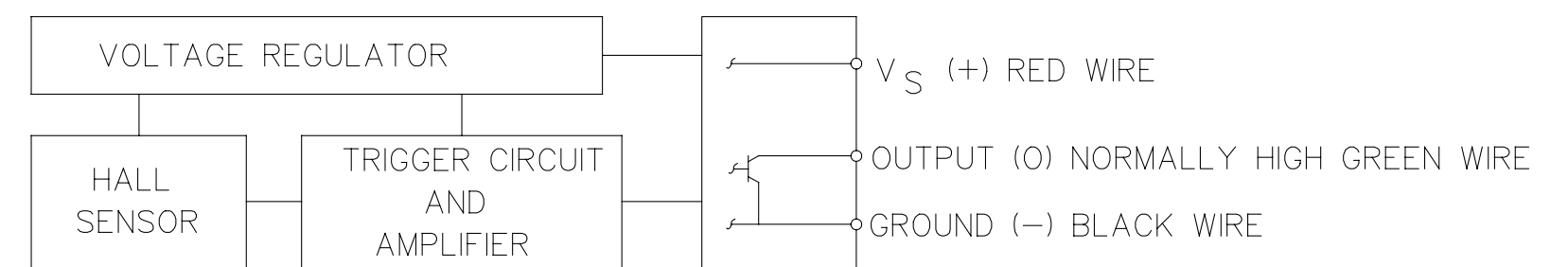
OPERATE MAX	430
RELEASE MIN	160
DIFF MIN	50
(TEMP RANGE -40°C TO 85°C)	

ABSOLUTE MAXIMUM RATINGS

SUPPLY VOLTAGE (V <sub>S</sub> )	-24 VDC TO +28 VDC
VOLTAGE EXTERNALLY APPLIED TO OUTPUT	+28 VOLTS DC MAX WITH SWITCH IN "OFF" CONDITION ONLY -0.5 VOLTS DC MIN WITH SWITCH IN "OFF" OR "ON" CONDITION
OUTPUT CURRENT	30 mA
TEMPERATURE OPERATE AND STORAGE	-40°C TO 85°C
MAGNETIC FLUX	NO LIMIT, THE CIRCUIT CANNOT BE DAMAGED BY MAGNETIC OVERDRIVE

ELECTRICAL CHARACTERISTICS

	MIN	TYP	MAX	REMARKS
SUPPLY CURRENT		8 mA	22.0 mA	V <sub>S</sub> = 6-24 VOLTS
OUTPUT VOLTAGE (OPERATED)		0.25 V	0.4 V	SINKING 10 mA PER OUTPUT
OUTPUT LEAKAGE CURRENT (RELEASED)			20 μA	LEAKAGE INTO SWITCH OUTPUT
OUTPUT SWITCHING TIME				
RISE TIME		0.2 μ SEC	1.5 μ SEC	10% TO 90%
FALL TIME		0.1 μ SEC	0.5 μ SEC	90% TO 10%



BLOCK DIAGRAM SHOWING CURRENT SINKING OUTPUTS

NOTES

- $\triangle 1$  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
- $\triangle 2$  LEADWIRES (INDIVIDUAL WIRES) ARE 24 GAGE STRANDED WITH XLPE INSULATION
- $\triangle 3$  DATE CODE LOCATED IN THIS AREA
- $\triangle 4$  AT 24 ± 2°C
- $\triangle 5$  AT SUPPLY VOLTAGE OF 6 TO 24 VOLTS AND FULL TEMPERATURE RANGE
- $\triangle 6$  CATALOG LISTING LOCATED IN THIS AREA
- $\triangle 7$  V<sub>S</sub> IS THE UNREGULATED SUPPLY VOLTAGE
- $\triangle 8$  TORQUE ON PLASTIC NUTS MUST NOT EXCEED 12 INCH POUNDS

DDM/CAD DRAWN W L S 50 NOV 89 CHECK D A W 27 DEC 89 CHECK  
 SR3G-A1 DRAWING NUMBER M 4 ISSUE  
 RELEASE NO. PR-14216 REPLACES

REVISIONS	DATE	BY	CHKD
A	CO64722	WLS	30 NOV 89
B	CO72441	JAS	19 MAY 92

MASTER REDUCED  
ANSI Y14.5M-1982 APPLIES

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<b>MICRO SWITCH</b> a Honeywell Division	MAGNETICALLY OPERATED CYLINDRICAL HALL SWITCH	CATALOG LISTING <b>SR3G-A1</b>
FED. MFG. CODE 91929		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