

OPERATING CHARACTERISTICS  $\triangle$   $\triangle$

M SR4P2-C8

OPERATE MAX	25 GAUSS
RELEASE MIN	5 GAUSS
DIFF MIN	2 GAUSS
(TEMP RANGE -40°C TO 85°C)	

ABSOLUTE MAXIMUM RATINGS

SUPPLY VOLTAGE (VS) $\triangle$	3.8 VDC TO 30 VDC
VOLTAGE EXTERNALLY APPLIED TO OUTPUT	+30 VOLTS DC MAX WITH SWITCH IN "OFF" CONDITION ONLY -0.5 VOLTS MAX WITH SWITCH IN "OFF" OR "ON" CONDITION
OUTPUT CURRENT	20 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 $\triangle$		6.0 mA	11.0 mA	Vs = 3.8-30 VOLTS $\triangle$
OUTPUT VOLTAGE (OPERATED) $\triangle$		0.25 V	0.4 V	SINKING 20 mA MAX
OUTPUT LEAKAGE CURRENT (RELEASED) $\triangle$			10 $\mu$ A	LEAKAGE INTO SWITCH OUTPUT
OUTPUT SWITCHING TIME				1600 $\Omega$ , 20pF LOAD
RISE TIME $\triangle$		0.2 $\mu$ SEC	1.5 $\mu$ SEC	10% TO 90%
FALL TIME $\triangle$		0.1 $\mu$ SEC	1.5 $\mu$ SEC	90% TO 10%

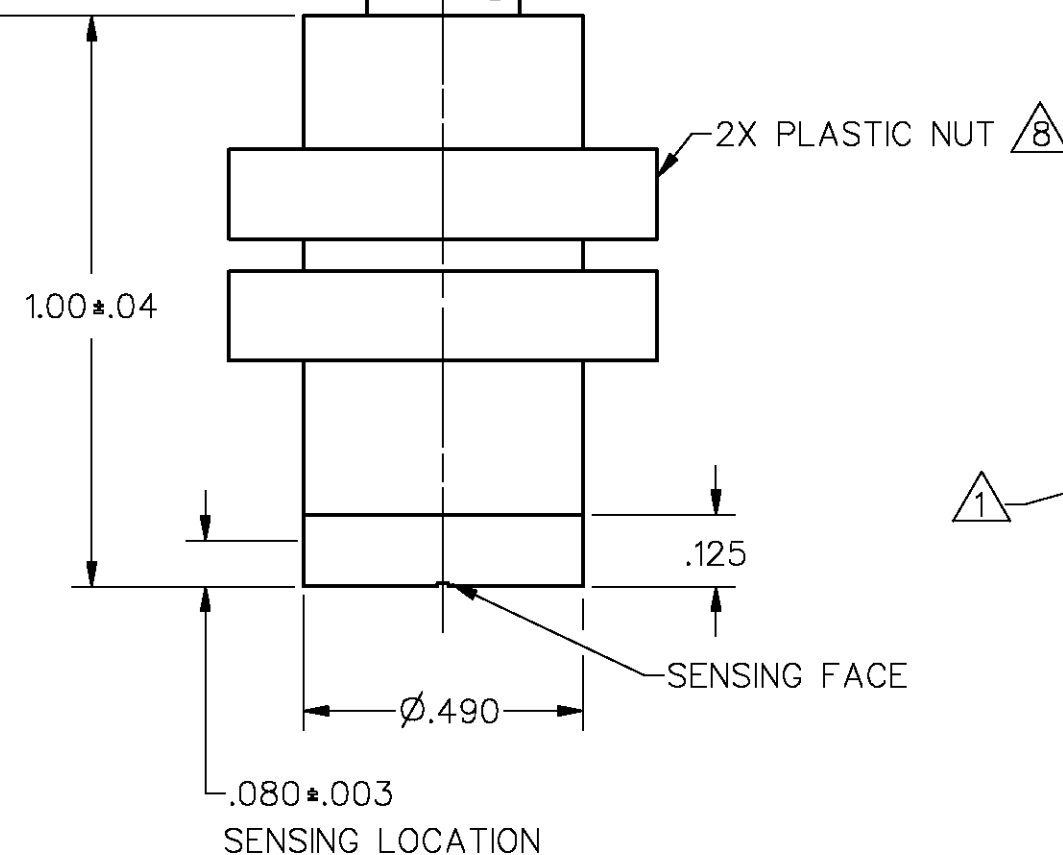
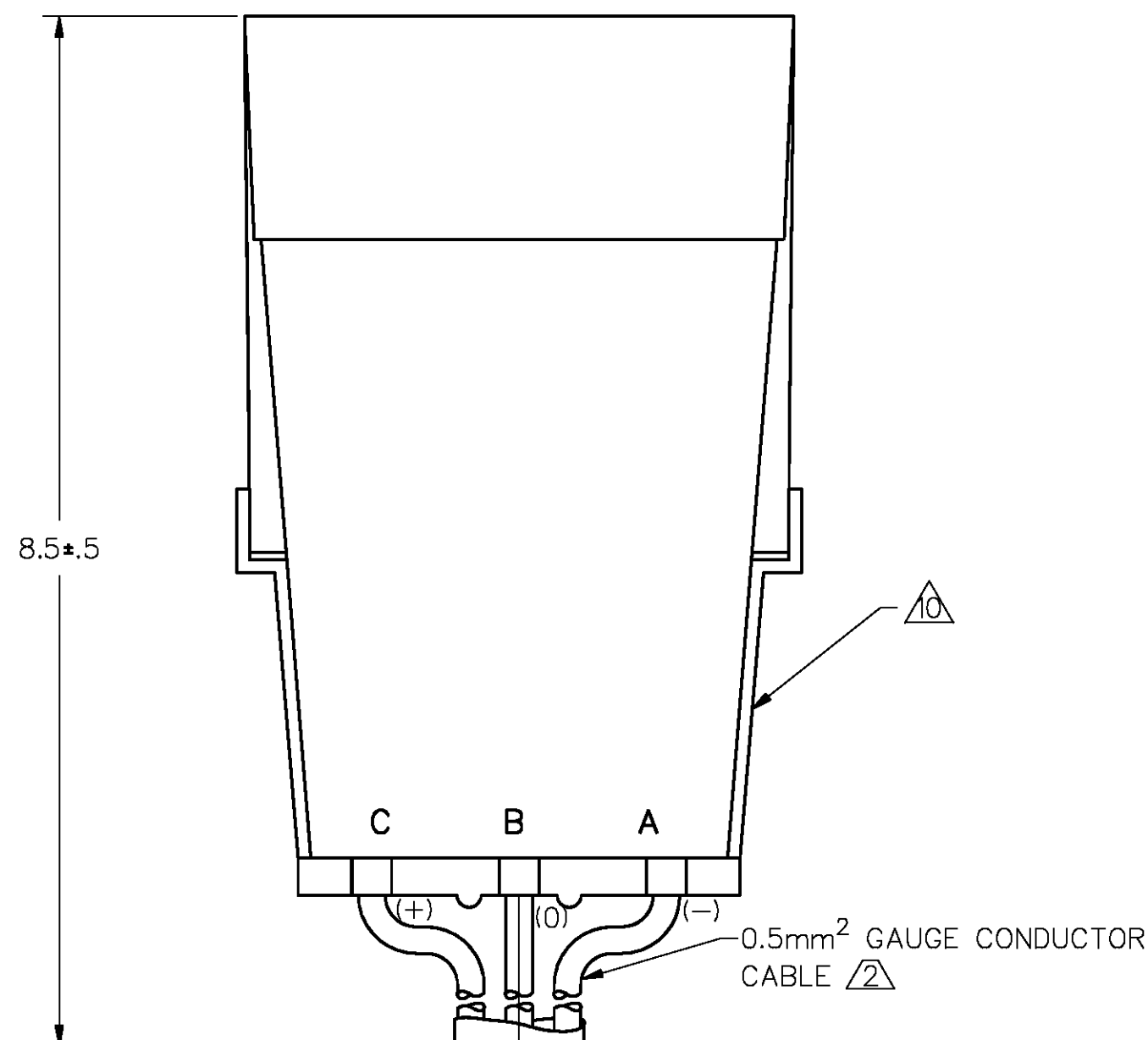


FIG. 2 OPERATE

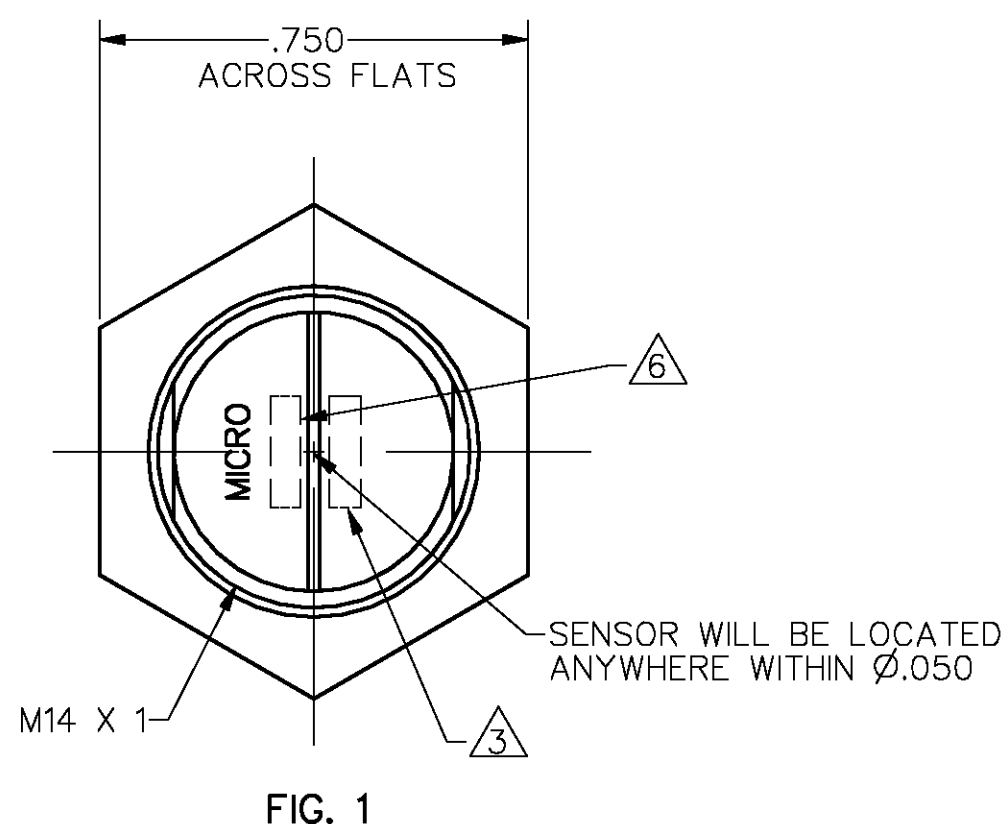
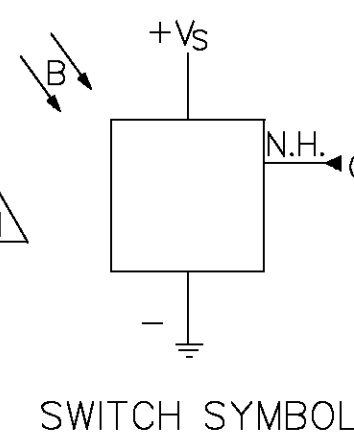
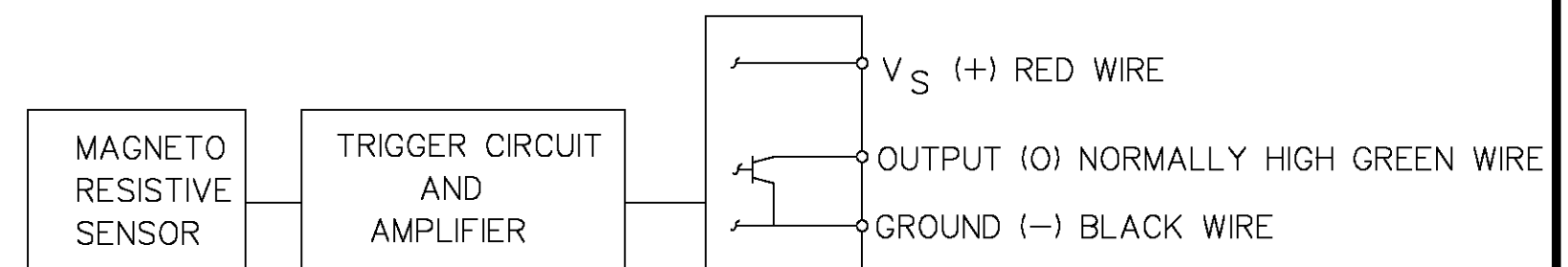


FIG. 1



SWITCH SYMBOL



BLOCK DIAGRAM SHOWING CURRENT SINKING OUTPUTS

NOTES

- $\triangle$  1 FLUX ENTERING THE SOUTH POLE OR THE NORTH 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 0.5mm<sup>2</sup> GAUGE PVC INSULATED CONDUCTORS WITH MOLDED PVC JACKET
- $\triangle$  3 DATE CODE LOCATED IN THIS AREA
- $\triangle$  4 SUPPLY CURRENT RATINGS MEASURED AT TEMPERATURES INDICATED "TYP" 24°C ± 2°C. "MAX" -40°C/85°C
- $\triangle$  5 AT SUPPLY VOLTAGE OF 3.8 TO 30 VOLTS AND TEMPERATURE RANGE OF -40 TO 85°C
- $\triangle$  6 CATALOG LISTING LOCATED IN THIS AREA
- $\triangle$  7 Vs IS THE UNREGULATED SUPPLY VOLTAGE
- $\triangle$  8 TORQUE ON PLASTIC NUTS MUST NOT EXCEED 12 INCH POUNDS
- 9 - THE MAGNETIC CHARACTERISTICS OF THE SWITCH MAY BE AFFECTED BY STRAY MAGNETIC FIELDS
- $\triangle$  10 PACKARD ELECTRIC WEATHER PACK CONNECTOR INCLUDING CONNECTOR HOUSING NO. 12010717

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  
FED. MFG. CODE 91929

MAGNETICALLY OPERATED  
CYLINDRICAL MAGNETO  
RESISTIVE SWITCH

CATALOG LISTING  
**SR4P2-C8**

MASTER REDUCED  
ANSI Y14.5M-1982 APPLIES

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