

DRAWING NUMBER
SR4P2-B9
PAGE 1 OF 1
ISSUE
4
REPLACES
PR-19548
CHECK
REVISIONS
A 0075307
25 MAY 93
B 0081515A
5 JUN 95
C 0082772A
26 APR 96
DDM/CAD
DRAWN
J A S 15 OCT 91
CHECK K A G 17 OCT 91
CHECK

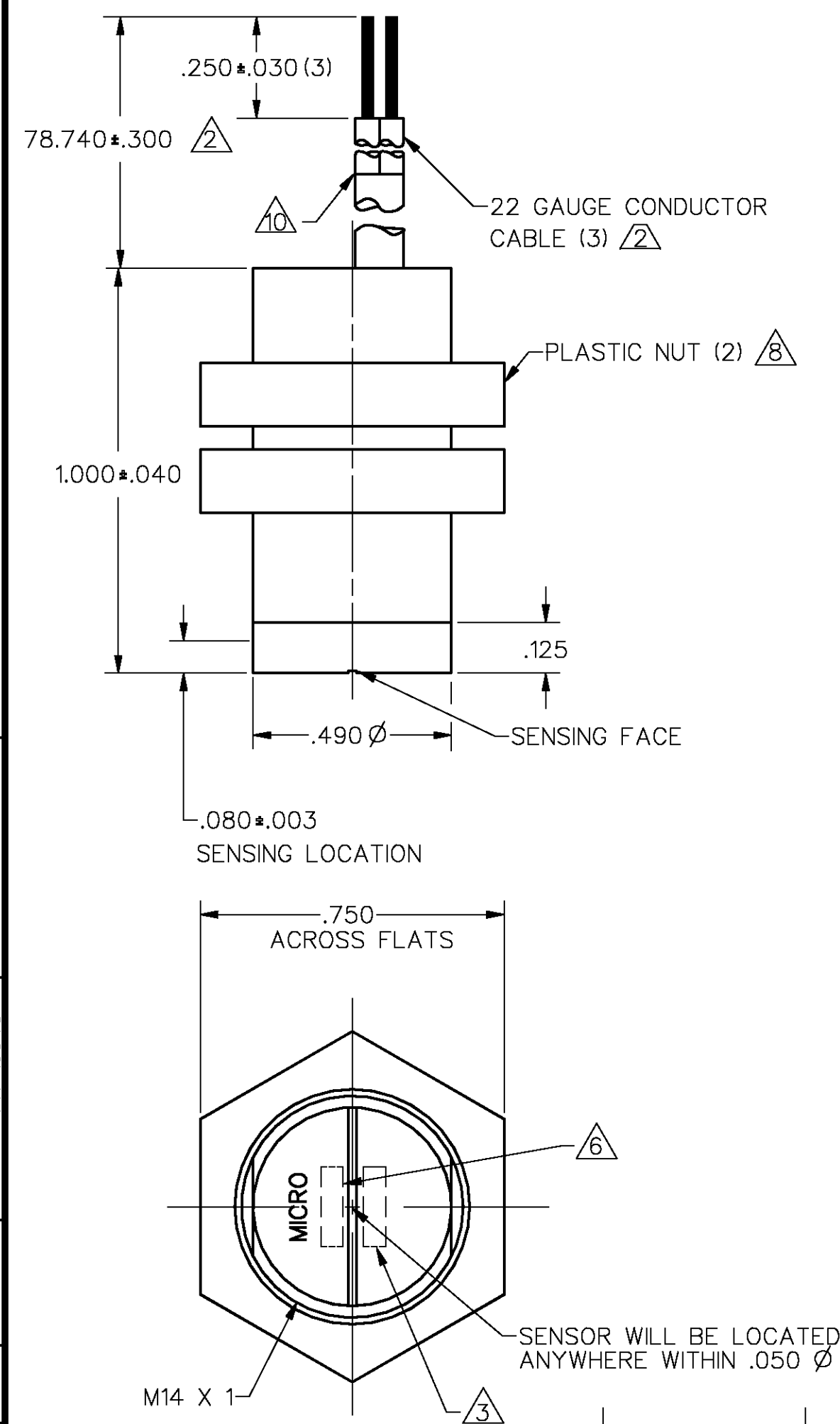


FIG. 1

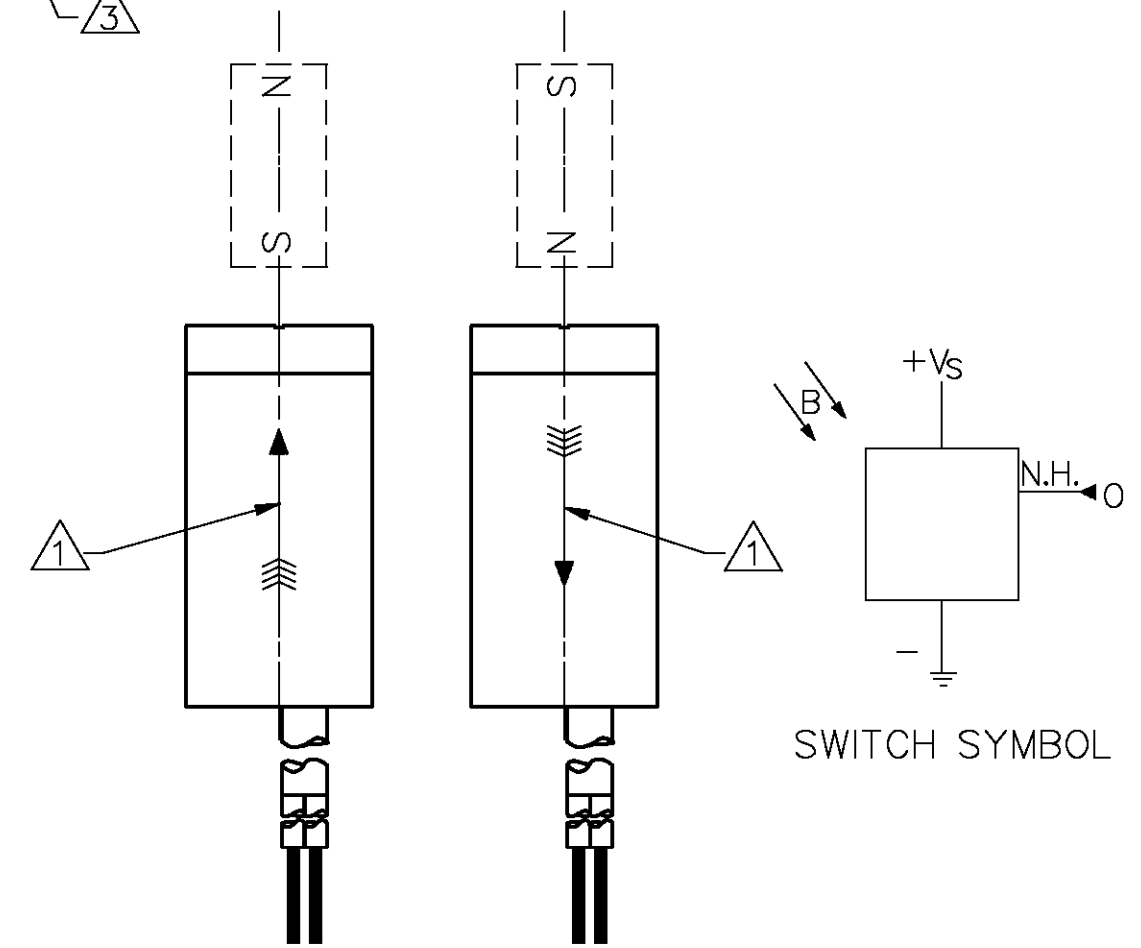


FIG. 2
OPERATE

MASTER REDUCED
ANSI Y14.5M-1982 APPLIES

OPERATING CHARACTERISTICS

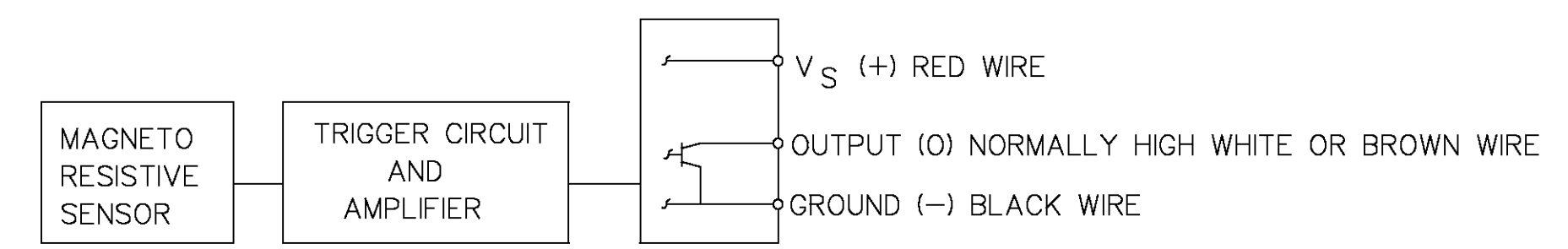
OPERATE MAX	25 GAUSS
RELEASE MIN	5 GAUSS
DIFF MIN	2 GAUSS
(TEMP RANGE -20°C TO 85°C)	

ABSOLUTE MAXIMUM RATINGS

SUPPLY VOLTAGE (VS)	6 VDC TO 24 VDC
VOLTAGE EXTERNALLY APPLIED TO OUTPUT	+24 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		2.5 mA	13.5 mA	Vs = 6-24 VOLTS
OUTPUT VOLTAGE (OPERATED)		0.25 V	0.4 V	SINKING 20 mA MAX
OUTPUT LEAKAGE CURRENT (RELEASED)			10 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

- 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.
- 22 GAUGE PVC INSULATED CONDUCTORS WITH MOLDED PVC JACKET
- DATE CODE LOCATED IN THIS AREA
- AT 24 ± 2°C
- AT SUPPLY VOLTAGE OF 6 TO 24 VOLTS AND FULL TEMPERATURE RANGE
- CATALOG LISTING LOCATED IN THIS AREA
- Vs IS THE UNREGULATED SUPPLY VOLTAGE
- TORQUE ON PLASTIC NUTS MUST NOT EXCEED 12 INCH POUNDS
- 9 - THE MAGNETIC CHARACTERISTICS OF THE SWITCH MAY BE AFFECTED BY STRAY MAGNETIC FIELDS
- JACKET IS CUT BACK 1.37 FROM FREE END OF LEADS

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FED. WFG. CODE 91929

MAGNETICALLY OPERATED CYLINDRICAL HALL SWITCH

CATALOG LISTING
SR4P2-B9

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			