

SR4P2-B10

REVISIONS
A C075307
25 MAY 93
B C081515A
G J W
12 DEC 95
C C082772A

OPERATING CHARACTERISTICS 1 &

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

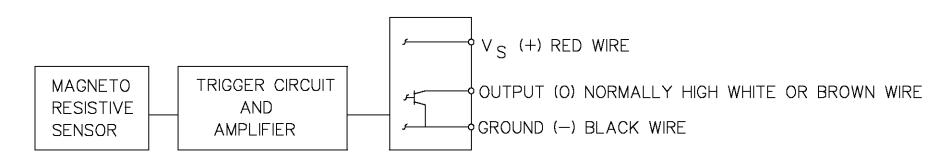
M SR4P2-B10

ABSOLUTE MAXIMUM RATINGS

SUPPLY VOLTAGE (VS) /7\	6 VDC TO 24 VDC	
VOLTAGE EXTERNALLY	+24 VOLTS DC MAX WITH SWITCH IN "OFF" CONDITION ONLY	
APPLIED TO OUTPUT	-0.5 VOLTS MAX WITH SWITCH IN "OFF" OR	
	"ON" CONDITION	
OUTPUT CURRENT	20 mA	
TEMPERATURE	-40°C TO 85°C	
OPERATE AND STORAGE		
MAGNETIC FLUX	NO LIMIT, THE CIRCUIT CANNOT BE DAMAGED BY	
	MAGNETIC OVERDRIVE	

ELECTRICAL CHARACTERISTICS

	MIN	TYP	MAX	REMARKS
SUPPLY CURRENT 4		2.5 mA	13.5 mA	$Vs = 6-24 \text{ VOLTS } \sqrt{2}$
OUTPUT VOLTAGE 5		0.25 V	0.4 V	SINKING 20 mA MAX
(OPERATED)				
OUTPUT LEAKAGE /5\			10 µ A	LEAKAGE INTO SWITCH OUTPUT
CURRENT (RELEASED)				
OUTPUT SWITCHING TIME				
RISE TIME \(\sigma \)		0.2μ SEC	1.5 µ SEC	10% TO 90%
FALL TIME		0.1 μ SEC	0.5μ SEC	90% TO 10%



BLOCK DIAGRAM SHOWING CURRENT SINKING OUTPUTS

NOTES

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.

2 22 GUAGE PVC INSULATED CONDUCTORS WITH MOLDED PVC JACKET

3 DATE CODE LOCATED IN THIS AREA

<u>√4</u>\ AT 24±2°C

AT SUPPLY VOLTAGE OF 6 TO 24 VOLTS AND FULL TEMPERATURE RANGE

6 CATALOG LISTING LOCATED IN THIS AREA

/7\ Vs IS THE UNREGULATED SUPPLY VOLTAGE

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

 $\cancel{10}$ Jacket is cut back 1.37 from free end of Leads

THIRD ANGLE PROJECTION SCALE 3:1 DO NOT SCALE PRINT UNLESS OTHERWISE SPECIFIED TOLERANCES ARE (.0) $\pm .030$ ONE PLACE TWO PLACES (.00) ±.015 THREE PLACES (.000) ±.005

ANGLES

WEIGHT

CATALOG LISTING

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MAGNETICALLY **MICRO SWITCH**

OPERATED CYLINDRICAL HALL SWITCH

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