

A2

SR3B-

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OPERATING CHARACTERISTICS 1

OPERATE MAX	150
RELEASE MIN	-150
DIFF MIN	40
(TEMP RANGE -40°	C TO 85°C)

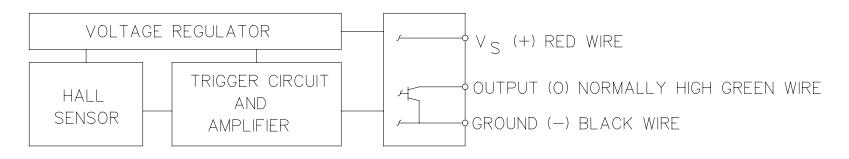
M SR3B-A2

ABSOLUTE MAXIMUM RATINGS

SUPPLY VOLTAGE (VS) /7	-24.0 VDC TO +28.0 VDC
VOLTAGE EXTERNALLY	+28 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		5 mA	15.0 mA	$Vs = 6-24 \text{ VOLTS } \sqrt{7}$
OUTPUT VOLTAGE 5		0.2 V	0.4 V	SINKING 20 mA PER OUTPUT
(OPERATED)				
OUTPUT LEAKAGE /5\			20 д А	LEAKAGE INTO SWITCH OUTPUT
CURRENT (RELEASED)				
OUTPUT SWITCHING TIME				
RISE TIME 5		0.2μ SEC	1.5 д SEC	10% TO 90%
FALL TIME		0.1 д SEC	0.5 д SEC	90% TO 10%



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 AND 3)

- LEADWIRES (INDIVIDUAL WIRES) ARE 24 GAGE STRANDED WITH XLPE INSULATION
- 3 DATE CODE LOCATED IN THIS AREA
- 4 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
- 78\ TORQUE ON PLASTIC NUTS MUST NOT EXCEED 12 INCH POUNDS

THIRD ANGLE PROJECTION

SCALE 3:1

DO NOT SCALE PRINT

UNLESS OTHERWISE SPECIFIED
TOLERANCES ARE

ONE PLACE (.0) ±.030
TWO PLACES (.00) ±.015

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MASTER REDUCED ANSI Y14.5M-1982 APPLIES

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FED. MFG. CODE 91929

MAGNETICALLY
OPERATED CYLINDRICAL
HALL SWITCH

SR3B-A2

TWO PLACES (.00) ±.015

THREE PLACES (.000) ±.005

ANGLES ±

WEIGHT