SWITCH SYMBOL

SR3F-A1

DRAW I NG NUMBER

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A 201747

JLH
NOV00

FIG. 2

OPERATE

SR3F-A1

MAGNETIC CHARACTERISTICS A

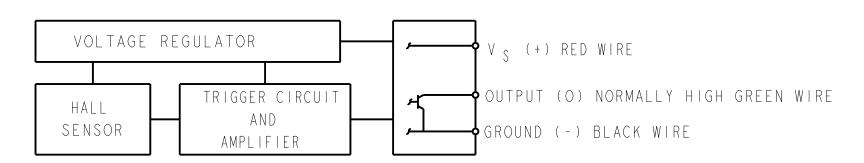
OPERATE MAX			4 5	50	
RELEASE MIN			1 7	7 0	
DIFF MIN		20			
(TEMP RANGE	- 40°	С	TO	85°	()

ABSOLUTE MAXIMUM RATINGS 🕭

SUPPLY VOLTAGE (VS) 7	-28 VDC TO +28 VDC
VOLTAGE EXTERNALLY	+28 VOLTS DC MAX WITH SWITCH IN "OFF" CONDITION ONLY
APPLIED TO OUTPUT	-0.5 VOLTS DC MIN WITH SWITCH IN "OFF" OR
	"ON" CONDITION
OUTPUT CURRENT	20 mA
TEMPERATURE	-40°C TO 125°C
OPERATE AND STORAGE	
MAGNETIC FLUX	NO LIMIT, THE CIRCUIT CANNOT BE DAMAGED BY
	MAGNETIC OVERDRIVE

ELECTRICAL CHARACTERISTICS

	MIN	TYP	мах	REMARKS
SUPPLY CURRENT 4		8 mA	18.0 mA	V S = 4.5-24 VOLTS 7
OUTPUT VOLTAGE 5 (OPERATED)		0.15 V	0.4 V	SINKING 10 mA PER OUTPUT
OUTPUT LEAKAGE /5			ΙΟμΑ	LEAKAGE INTO SWITCH OUTPUT
CURRENT (RELEASED) OUTPUT SWITCHING TIME				
RISE TIME 5		0.2 µ SEC	I.5 Д SEC	10% TO 90%
FALL TIME		O.Ιμ SEC	I.5μSEC	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

LEADWIRES (INDIVIDUAL WIRES) ARE 24 GAGE STRANDED WITH XLPE INSULATION

DATE CODE LOCATED IN THIS AREA

 \triangle AT 24 \pm 2° C

5 AT SUPPLY VOLTAGE OF 4.5 TO 24 VOLTS AND FULL TEMPERATURE RANGE

6 CATALOG LISTING LOCATED IN THIS AREA

Vs IS THE UNREGULATED SUPPLY VOLTAGE

TORQUE ON PLASTIC NUTS MUST NOT EXCEED 12 INCH POUNDS

ABSOLUTE MAXIMUM RATINGS ARE THE EXTREME LIMITS THAT THE DEVICE
WILL WITHSTAND WITHOUT DAMAGE TO THE DEVICE. HOWEVER, THE ELECTRICAL
AND MAGNETIC CHARACTERISTICS ARE NOT GUARENTEED AS THE MAXIMUM LIMITS
(ABOVE RECOMMENDED OPERATING CONDITIONS) ARE APPROACHED, NOR WILL THE
DEVICE NECESSARILY OPERATE AT ABSOLUTE MAXIMUM RATING



THIRD ANGLE PROJECTION

SCALE 3:|

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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FED. MFG. CODE 91929

MAGNETICALLY
OPERATED CYLINDRICAL
HALL SWITCH

SR3F-A1

CATALOG LISTING