3X .187±.030

ICRO

FIG. I

L .039±.003

SENSING LOCATION

-M | 4 X |

. 125

SENSING FACE

-SENSOR WILL BE LOCATED

ANYWHERE WITHIN ∅.050

SWITCH SYMBOL

≻PLASTIC NUTS 🔼

3X 4.860±.300 2

 $1.000 \pm .040$

. 750 ACROSS FLATS

FIG. 2

OPERATE

SR3F-A1A

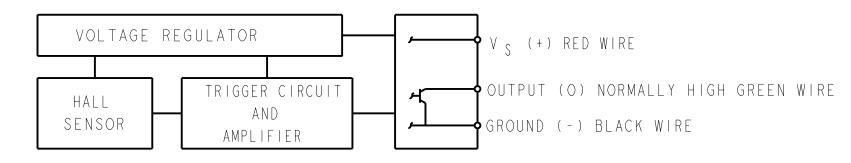


ABSOLUTE MAXIMUM RATINGS 🖄

SUPPLY VOLTAGE (VS) 1	-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	I8 mA	V S = 4.5-24 VOLTS 27
OUTPUT VOLTAGE \(\sigma 5\) (OPERATED)		0.15 V	0.4 V	SINKING IO MA PER OUTPUT
OUTPUT LEAKAGE \(\frac{5}{\} \) CURRENT (RELEASED)			ΙΟμΑ	LEAKAGE INTO SWITCH OUTPUT
OUTPUT SWITCHING TIME RISE TIME 5 FALL TIME		0.2 µ SEC 0.1 µ SEC	I . 5 д SEC I . 5 д SEC	10% TO 90% 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

23\ DATE CODE LOCATED IN THIS AREA

 \triangle AT 24 \pm 2°C

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

<u>/6</u>\ CATALOG LISTING LOCATED IN THIS AREA

Vs IS THE UNREGULATED SUPPLY VOLTAGE

TORQUE ON PLASTIC NUTS MUST NOT EXCEED 12 INCH POUNDS

9\ 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 ⊕ -=-DO NOT SCALE PRINT UNLESS OTHERWISE SPECIFIED TOLERANCES ARE ONE PLACE (.0) $\pm .030$ 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

HALL SWITCH

SR3F-A1A

SR3F-A1A

DRAW I NG NUMBER

3

A 201747

JLH
NOV00

ANSI YI4.5M-1982 APPLIES