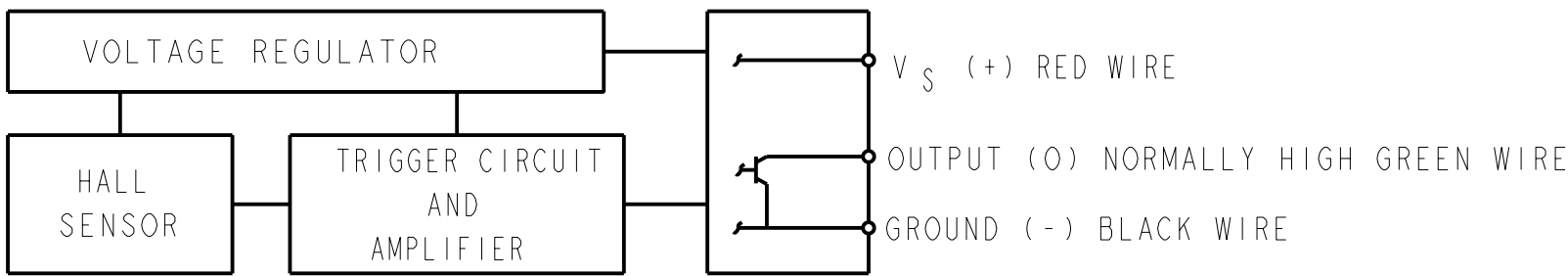


MAGNETIC CHARACTERISTICS <span>1</span> <span>5</span>	
OPERATE MAX	450
RELEASE MIN	170
DIFF MIN	20
(TEMP RANGE -40° C TO 85° C)	

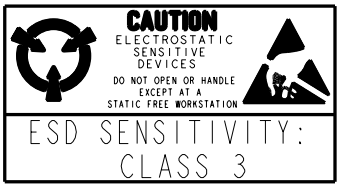
ABSOLUTE MAXIMUM RATINGS <span>9</span>	
SUPPLY VOLTAGE ( V <sub>S</sub> ) <span>7</span>	-28 VDC TO +28 VDC
VOLTAGE EXTERNALLY APPLIED TO OUTPUT	+28 VOLTS DC MAX WITH SWITCH IN "OFF" CONDITION ONLY -0.5 VOLTS DC MIN WITH SWITCH IN "OFF" OR "ON" CONDITION
OUTPUT CURRENT	20 mA
TEMPERATURE OPERATE AND STORAGE	-40° C TO 125° C
MAGNETIC FLUX	NO LIMIT, THE CIRCUIT CANNOT BE DAMAGED BY MAGNETIC OVERDRIVE

ELECTRICAL CHARACTERISTICS				
	MIN	TYP	MAX	REMARKS
SUPPLY CURRENT <span>4</span>		8 mA	18 mA	V <sub>S</sub> = 4.5-24 VOLTS <span>7</span>
OUTPUT VOLTAGE (OPERATED) <span>5</span>		0.15 V	0.4 V	SINKING 10 mA PER OUTPUT
OUTPUT LEAKAGE CURRENT (RELEASED) <span>5</span>			10 μA	LEAKAGE INTO SWITCH OUTPUT
OUTPUT SWITCHING TIME				
RISE TIME <span>5</span>		0.2 μ SEC	1.5 μ SEC	10% TO 90%
FALL TIME		0.1 μ SEC	1.5 μ SEC	90% TO 10%



BLOCK DIAGRAM SHOWING CURRENT SINKING OUTPUTS

- NOTES
- 1 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
- 2 LEADWIRES (INDIVIDUAL WIRES) ARE 24 GAGE STRANDED WITH XLPE INSULATION
- 3 DATE CODE LOCATED IN THIS AREA
- 4 AT 24 ± 2° C
- 5 AT SUPPLY VOLTAGE OF 4.5 TO 24 VOLTS AND FULL TEMPERATURE RANGE
- 6 CATALOG LISTING LOCATED IN THIS AREA
- 7 V<sub>S</sub> IS THE UNREGULATED SUPPLY VOLTAGE
- 8 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 GUARENTED AS THE MAXIMUM LIMITS (ABOVE RECOMMENDED OPERATING CONDITIONS) ARE APPROACHED, NOR WILL THE DEVICE NECESSARILY OPERATE AT ABSOLUTE MAXIMUM RATING



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MICRO SWITCH a Honeywell Division	MAGNETICALLY OPERATED CYLINDRICAL HALL SWITCH	CATALOG LISTING SR3F-A1A
FED. MFG. CODE 91929		

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	

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