

FIG. 2  
OPERATE

### OPERATING CHARACTERISTICS <sup>1</sup>/<sub>5</sub>

OPERATE MAX	25 GAUSS
RELEASE MIN	5 GAUSS
DIFF MIN	2 GAUSS
(TEMP RANGE -40°C TO 85°C)	

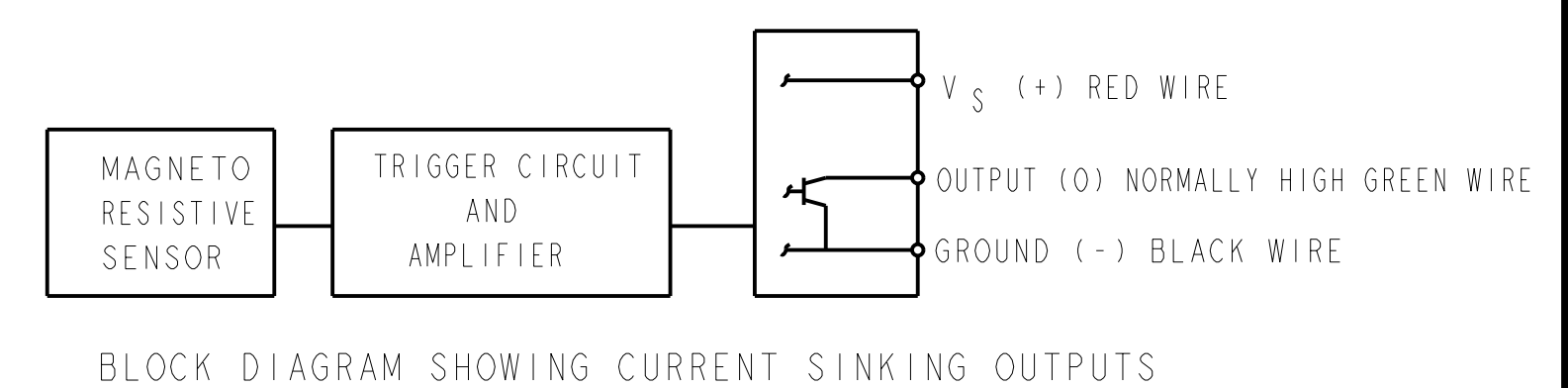
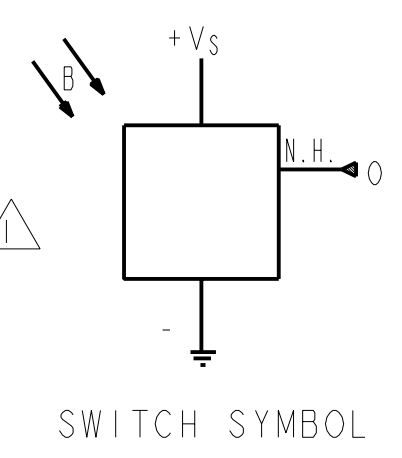
M SR4P3-C4

### ABSOLUTE MAXIMUM RATINGS

SUPPLY VOLTAGE (V <sub>S</sub> ) <sup>7</sup> / <sub>1</sub>	3.8 VDC TO 30 VDC
VOLTAGE EXTERNALLY APPLIED TO OUTPUT	+30 VOLTS DC MAX WITH SWITCH IN "OFF" CONDITION ONLY -0.5 VOLTS MAX WITH SWITCH IN "OFF" OR "ON" CONDITION
OUTPUT CURRENT	20 mA
TEMPERATURE OPERATE AND STORAGE	-40°C TO 85°C
MAGNETIC FLUX	NO LIMIT, THE CIRCUIT CANNOT BE DAMAGED BY MAGNETIC OVERDRIVE

### ELECTRICAL CHARACTERISTICS

	MIN	TYP	MAX	REMARKS
SUPPLY CURRENT <sup>4</sup> / <sub>1</sub>		6.0 mA	11.0 mA	V <sub>S</sub> = 3.8-30 VOLTS <sup>7</sup> / <sub>1</sub>
OUTPUT VOLTAGE <sup>5</sup> / <sub>1</sub> (OPERATED)		0.25 V	0.4 V	SINKING 20 mA MAX
OUTPUT LEAKAGE <sup>5</sup> / <sub>1</sub> CURRENT (RELEASED)			10 μA	LEAKAGE INTO SWITCH OUTPUT
OUTPUT SWITCHING TIME				
RISE TIME <sup>5</sup> / <sub>1</sub>		0.2 μ SEC	1.5 μ SEC	10% TO 90%
FALL TIME		0.1 μ SEC	1.5 μ SEC	90% TO 10%



### 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 0.5mm<sup>2</sup> GAUGE PVC INSULATED CONDUCTORS WITH MOLDED PVC JACKET
- 3 DATE CODE LOCATED IN THIS AREA
- 4 SUPPLY CURRENT RATINGS MEASURED AT TEMPERATURES INDICATED "TYP" 24°C ± 2°C "MAX" -40°C TO 85°C
- 5 AT SUPPLY VOLTAGE OF 3.8 TO 30 VOLTS AND TEMPERATURE RANGE OF -40 TO 85°C
- 6 CATALOG LISTING LOCATED IN THIS AREA
- 7 V<sub>S</sub> IS THE UNREGULATED SUPPLY VOLTAGE
- 8 - THE MAGNETIC CHARACTERISTICS OF THE SWITCH MAY BE AFFECTED BY STRAY MAGNETIC FIELDS
- 9 PACKARD ELECTRIC WEATHER PACK CONNECTOR INCLUDING CONNECTOR HOUSING NO. 12010791
- 10 SLIGHT ROTATION OF SENSOR MAY BE REQUIRED TO ACHIEVE MAXIMUM SENSITIVITY

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**MICRO SWITCH**  
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FED. MFG. CODE 91929

**MAGNETICALLY OPERATED  
CYLINDRICAL MAGNETO  
RESISTIVE SWITCH**

CATALOG LISTING  
**SR4P3-C4**

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			