

3.8 TO 30 VDC UNIPOLAR DEVICE

MAGNETIC CHARACTERISTICS

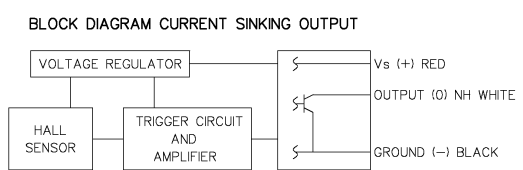
TEMPERATURE RANGE	-40°C TO 85°C
OPERATE MAX	190
RELEASE MIN	60
DIFFERENTIAL MIN	10

ABSOLUTE MAXIMUM RATING

SUPPLY VOLTAGE (Vs)	3.8 TO 30 VDC
VOLTAGE EXTERNALLY APPLIED TO OUTPUT	+28.0 VDC MAX WITH SWITCH IN "OFF" CONDITION ONLY -0.5 VOLTS MIN WITH SWITCH IN "OFF" OR "ON" CONDITION
OUTPUT CURRENT	20mA
TEMPERATURE	-40°C TO 85°C
MAGNETIC FLUX	NO LIMIT, THE CIRCUIT CANNOT BE DAMAGED BY MAGNETIC OVERDRIVE

ELECTRICAL CHARACTERISTICS

	MIN	TYP	MAX	
SUPPLY CURRENT		14mA	19.0mA	"OFF" CONDITION Vs = 4.5 - 24V
OUTPUT VOLTAGE (OPERATED)		0.2V	0.4V	SINKING 10mA MAX
OUTPUT LEAKAGE CURRENT (RELEASED)		1 μA	10 μA	LEAKAGE INTO SWITCH OUTPUT
OUTPUT SWITCHING TIME (SINKING)				
RISE TIME	0.2 μS		1.5 μS	10% to 90%
FALL TIME	0.5 μS		1.0 μS	90% to 10%



- NOTES**
- ▲ FLUX ENTERING THE SOUTH POLE OF THE MAGNET WILL OPERATE THE SENSOR WHEN THE 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. (FIGURE 2)
 - ▲ CABLE IS PVC JACKETED 3 CONDUCTOR CROSSLINKED POLYETHYLENE INSULATED 22 GAGE WIRES
 - ▲ DATE CODE LOCATED IN THIS AREA
 - ▲ AT 24° TO 2°C
 - ▲ AT SUPPLY VOLTAGE OF 4.5 TO 24 VOLTS AND FULL TEMPERATURE RANGE
 - ▲ 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 GUARANTEED 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 : 1

DO NOT SCALE PRINT

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE

ONE PLACE (L0)	±.030
TWO PLACES (L00)	±.015
THREE PLACES (L000)	±.005
ANGLES	±
WEIGHT	

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MICRO SWITCH
a Honeywell Division

MAGNETICALLY OPERATED CYLINDRICAL HALL SWITCH

CATALOG LISTING
SR3C-A2

MASTER REDUCED
ANSI Y14.5M-1982 APPLIES

FORMTEK
 DRAWING NO. SR3C-A2
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 REVISIONS
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