CATALOG LISTING THIS DRAWING COVERS A PROPRIETARY ITEM AND IS THE PROPERTY OF MICRO SWITCH. A DIVISION OF MICRO SWITCH MAGNETICALLY OPERATED HONEYWELL. THIS DRAWING IS NOT TO BE COPIED OR USED WITHOUT THE APPROVAL OF MICRO SWITCH **SR14B-E1** a Honeywell Division HALL SENSOR MAGNETIC CHARACTERISTICS 2 FED. MFG. CODE 91929 TEMPERATURE RANGE 25°C -40°C TO 85°C OPERATING GAUSS MAX 60 70 RELEASE GAUSS MINIMUM -60 - 70 DIFFERENTIAL GAUSS MINIMUM 15 12 ELECTRICAL CHARACTERISTICS -40 TO 85°C 4.5 TO 24 VDC MINIMUM MAXIMUM $3.025\pm.010$ SUPPLY CURRENT IO mA $2.635 \pm .010$.4 VOLTS OUTPUT VOLTAGE (ON) (SINKING 10 mA) гØI.350±.0I0\ SR14B-E1 VOLTAGE APPLIED TO OUTPUT (OFF) 24 VOLTS OUTPUT CURRENT MAX 20 mA OUTPUT LEAKAGE CURRENT (OFF) 10 M A -Ø.180 OUTPUT SWITCHING TIME RISE TIME (10% TO 90%) 1.5 U.S FALL TIME (90% TO 10%) 1.5 US -WHITE ABSOLUTE MAXIMUM RATINGS 3 -BLACK TEMPERATURE 40°C TO +105°C SUPPLY VOLTAGE - I VDC TO 25 VDC —RED . 180 VOLTAGE EXTERNALLY 25 VDC WITH SWITCH IN OFF COND. ONLY -42.000±1.000-APPLIED TO OUTPUT -0.5 VDC WITH SWITCH IN ON OR OFF COND. OUTPUT CURRENT 50 mA က MAGNETIC FLUX NO LIMIT Vs (+) OUTPUT A CO-81930 TRIGGER (O) N.H. KAG 15JAN96 HALL CICUIT SENSOR AND 201747 AMPLIFIER → GROUND (-) ∽HALL ELEMENT CENTER BLOCK DIAGRAM CURRENT SINKING OUTPUT THE MAGNETIC FLUX USED TO OPERATE THE SWITCH MUST BE IN THE DIRECTION AND LOCATION SHOWN (THIS ASSUMES THE CONVENTION THAT THE DIRECTION OF THE EXTERNAL FLUX OF A MAGNET IS FROM THE NORTH TO THE SOUTH POLE OF THE MAGNETIC FIELD STRENGTH (GAUSS) REQUIRED TO CAUSE THE SWITCH TO CHANGE STATE (OPERATE AND RELEASE) WILL BE AS SPECIFIED IN THE MAGNETIC ANGLE PROJECTION CHARACTERISTICS. TO TEST THE SWITCH AGAINST THE SPECIFIED MAGNETIC **CAUTION** \leftarrow CHARACTERISTICS, THE SWITCH MUST BE PLACED IN A UNIFORM MAGNETIC FIELD ABSOLUTE MAXIMUM RATINGS ARE THE EXTREME LIMITS THAT THE DEVICE WILL SCALE FULL WITHSTAND WITHOUT DAMAGE TO THE DEVICE. HOWEVER, THE ELECTRICAL AND MAGNETIC CHARACTERISTICS ARE NOT GUARANTEED AS THE MAXIMUM LIMITS DO NOT SCALE PRINT (ABOVE RECOMMENDED OPERATING CONDITIONS) ARE APPROACHED NOR WILL THE UNLESS OTHERWISE SPECIFIED CLASS DEVICE NECESSARILY OPERATE AT MAXIMUM RATING TOLERANCES ARE DATE CODE AND CUSTOMER PART NUMBER, 50HJ401484, LOCATED IN THIS AREA
5 - LEADWIRES ARE 22 GAUGE TWISTED WIRE SET, CONSISTING OF 3 WIRES COLORED ONE PLACE (.0) ±.030 PTC/CAD TWO PLACE (.00) ±.015 RED, WHITE AND BLACK THREE PLACE (.000) ±.005 ANGLES WEIGHT ANSI YI4.5M-1982 APPLIES