

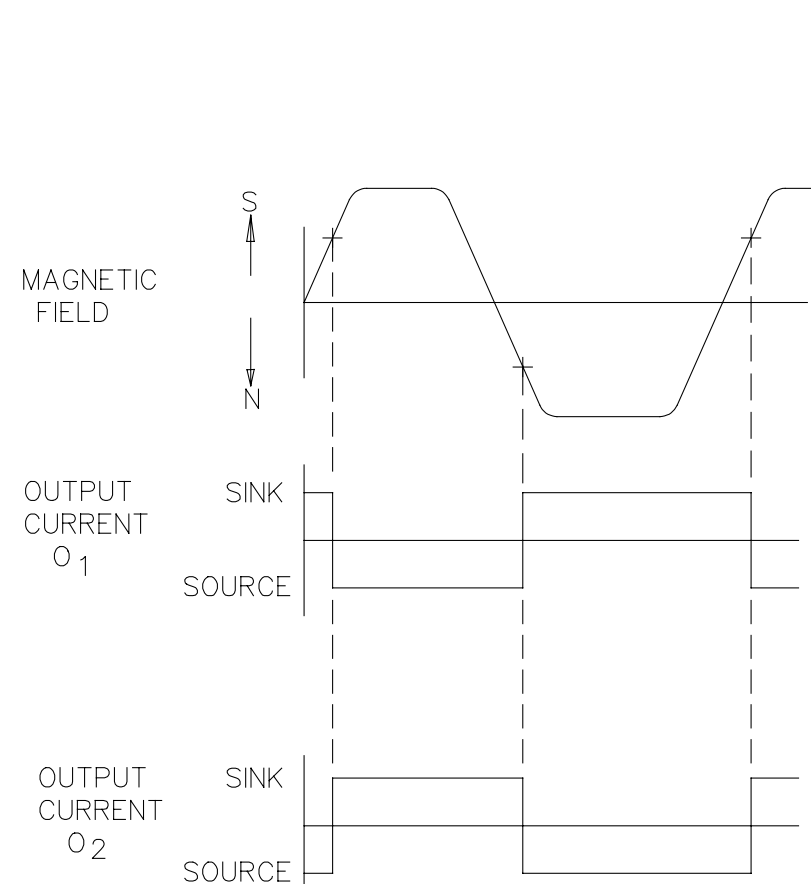
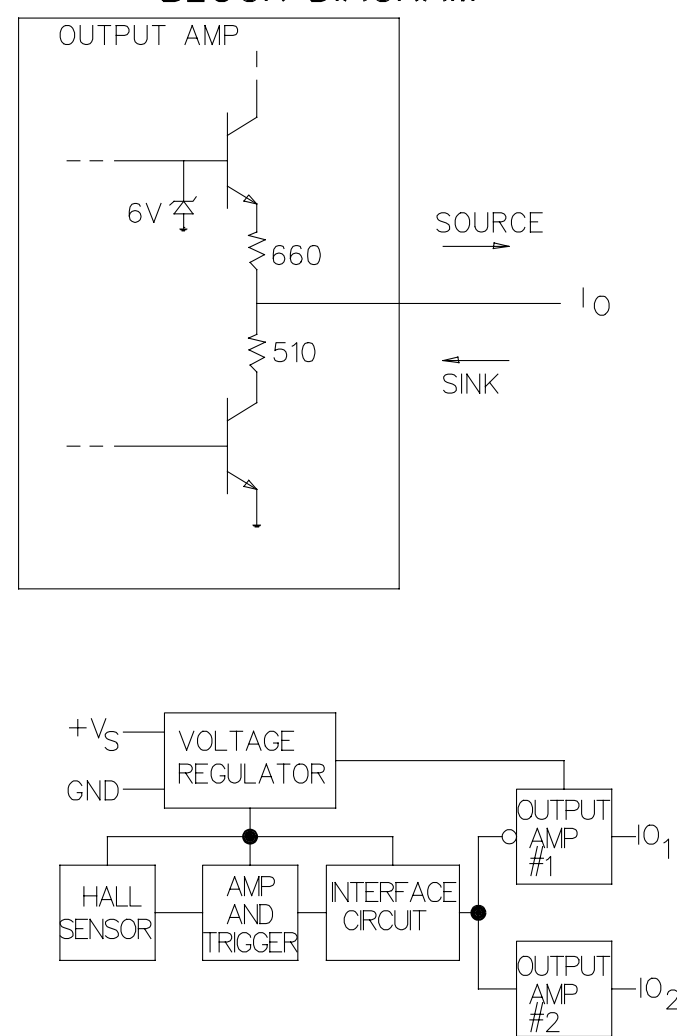
MAGNETIC CHARACTERISTICS (GAUSS) ^{△2}			
	24±2°C V _S = 12±0.5% VDC	0°C TO 75°C V _S = 4.5 TO 28 VDC	0°C TO 100°C V _S = 4.5 TO 16 VDC
OPERATE POINT	55 MIN: 185 MAX	40 MIN: 250 MAX	40 MIN: 350 MAX
RELEASE POINT	-185 MIN: -55 MAX	-250 MIN: -40 MAX	-350 MIN: -40 MAX
DIFFERENTIAL	200 MIN: 300 MAX	150 MIN: 420 MAX	150 MIN: 600 MAX

ABSOLUTE MAXIMUM RATINGS ^{△3}	
TEMPERATURE	-40°C MIN: 125°C MAX, STORAGE, NO POWER SUPPLIED
SUPPLY VOLTAGE (V _S)	-28V MIN: 28V MAX, 0 TO 100°C
VOLTAGE EXTERNALLY APPLIED TO OUTPUT	-1.2V MIN: 5V MAX, 0 TO 100°C
OUTPUT CURRENT	-10mA MIN: 10mA MAX
MAGNETIC FLUX	NO LIMIT THE CIRCUIT CANNOT BE DAMAGED BY MAGNETIC OVERDRIVE

ELECTRICAL CHARACTERISTICS					
	24±2°C		0°C TO 75°C		REMARKS
	MIN	MAX	MIN	MAX	
SUPPLY CURRENT	11.0mA		12.0mA		NO LOAD ^{△5}
OUTPUT VOLTAGE:					SWITCH MAGNETICALLY OPERATED: NO LOAD ^{△5} SWITCH MAGNETICALLY RELEASED: NO LOAD ^{△5}
#1 SOURCING	5.0	6.0			
#2 SINKING	0	.2			
#1 SINKING	0	.2			
#2 SOURCING	5.0	6.0			NO LOAD ^{△5}
LEAKAGE (SINK)	1.0 μA		1.0 μA		APPLY VOLTAGE 0.2V GREATER THAN MEASURED OUTPUT SOURCE VOLTAGE MEASURE CURRENT, NO LOAD ^{△5}
OUTPUT CURRENT:					APPLY 2 VOLTS TO OUTPUT AND MEASURE CURRENT. SWITCH MAGNETICALLY OPERATED, NO LOAD ^{△5} APPLY 2 VOLTS TO OUTPUT AND MEASURE CURRENT. SWITCH MAGNETICALLY RELEASED, NO LOAD ^{△5}
#1 SOURCING	4.0mA	6.5mA	3.75	6.4	
#2 SINKING	2.8mA	4.7mA	2.4	4.4	
#1 SINKING	2.8mA	4.7mA	2.2	4.4	
#2 SOURCING	4.0mA	6.5mA	3.75	6.4	
OUTPUT SWITCHING TIME:					90% TO 10% NO LOAD ^{△5} 10% TO 90%
FALL TIME:			1.0 μS		
RISE TIME:			1.0 μS		

DRAWING NUMBER: SS42R
 ISSUE: 7
 PAGE: 1 OF 1
 REVISIONS:
 A CO65434 KAG 8 DEC 87
 A CO62773 KAG 8 DEC 87
 B CO74002 J.A. 15 DEC 92
 C CO84650 J.D. 28 MAY 97
 DDM/CAD DRAWN
 KAG 18 DEC 87 CHECK
 MAM 13 FEB 88 CHECK
 DLW 16 JAN 88 CHECK
 X78704-SS REPLACES

BLOCK DIAGRAM



NOTES

- △1 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 MAGNET)
- △2 THE MAGNETIC FIELD STRENGTH (GAUSS) REQUIRED TO CAUSE THE SWITCH TO CHANGE STATE (OPERATE AND RELEASE) WILL BE AS SPECIFIED IN THE MAGNETIC CHARACTERISTICS. TO TEST THE SWITCH AGAINST THE SPECIFIED MAGNETIC CHARACTERISTICS THE SWITCH MUST BE PLACED IN A UNIFORM MAGNETIC FIELD
- △3 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
- △4 DIMENSIONS NOTED ARE DUE TO TIE BAR REMOVAL AND ARE VALID ONLY IN .079 DIMENSION.
- △5 BURRS EXTEND BACK FROM FRONT SURFACE ONLY

MASTER REDUCED
ANSI Y14.5M-1982 APPLIES

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MICRO SWITCH a Honeywell Division	SOLID STATE SWITCH	SS42R
FED. MFG. CODE 91929		WEIGHT

THIRD ANGLE PROJECTION		
SCALE	10 : 1	
DO NOT SCALE PRINT		
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE		
ONE PLACE	(.0)	±.030
TWO PLACES	(.00)	±.015
THREE PLACES	(.000)	±.005
ANGLES		± 2°

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