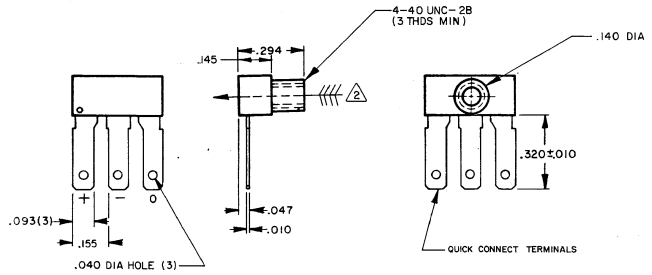
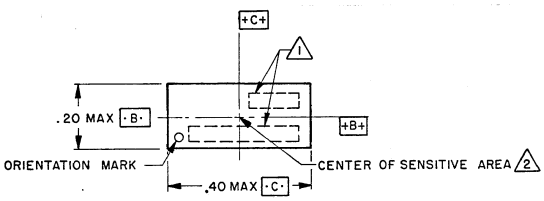


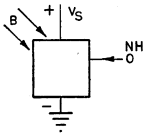
MAGNETIC CHARACTERISTICS 2 3 5

TEMP RANGE	-40°C TO 150°C	-40°C TO 100°C	0°C TO 70°C	ISSUE NUMBER	RELEASE NUMBER	CATALOG LISTING
OPERATE MAX	340	330	320	4	PR-3859	513SS16
RELEASE MIN	30	85	105			
DIFF MIN	23	23	23			
OPERATE MAX						
RELEASE MIN						
DIFF MIN						
OPERATE MAX						
RELEASE MIN						
DIFF MIN						

NOTES

1. CATALOG LISTING AND LOT NUMBER WILL BE STAMPED ON THE PACKAGE
2. TO ACTUATE THE DEVICE THE SOUTH POLE OF THE MAGNET OR MAGNETIC FLUX GENERATOR MUST BE PRESENTED TO THE CENTER OF THE FRONT SURFACE OF THE DEVICE. (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)
3. THE MAGNETIC FIELD STRENGTH (GAUSS) REQUIRED TO CAUSE THE SWITCH TO CHANGE STATE (OPERATE AND RELEASE) WILL BE AS SPECIFIED IN THE OPERATING CHARACTERISTICS. TO TEST SWITCH AGAINST THE SPECIFIED OPERATING CHARACTERISTICS, THE SWITCH MUST BE PLACED IN A UNIFORM MAGNETIC FIELD
4. V_S IS THE UNREGULATED SUPPLY VOLTAGE
5. AT SUPPLY VOLTAGE OF 6 TO 16 VDC AND OVER THE TEMPERATURE RANGE SPECIFIED
6. AT 24°C ± 2°C

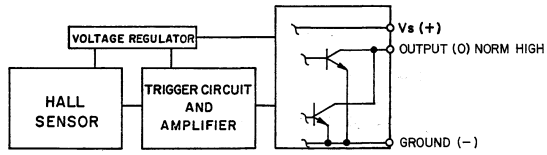




SWITCH SYMBOL

ABSOLUTE MAXIMUM RATING

SUPPLY VOLTAGE (V_S) 4	-1.2 TO +20 VOLTS DC
VOLTAGE EXTERNALLY APPLIED TO OUTPUT	+20.0 VDC MAX WITH SWITCH IN "OFF" CONDITION ONLY -0.5 VOLTS MIN WITH SWITCH IN "OFF" OR "ON" CONDITION
LOAD ON OUTPUT (CONTINUOUS)	MA
TEMPERATURE	-40°C TO +150°C
MAGNETIC FLUX	NO LIMIT, THE CIRCUIT CANNOT BE DAMAGED BY MAGNETIC OVERDRIVE



BLOCK DIAGRAM SHOWING CURRENT SINKING OUTPUT

ELECTRICAL CHARACTERISTICS

	MIN	TYP	MAX	REMARKS
SUPPLY CURRENT 6		3 mA 5 mA	6.5 mA 10.0 mA	PLUS LOAD CURRENT Vs = 6 VOLTS Vs = 16 VOLTS 4
OUTPUT VOLTAGE 5 (OPERATED)		0.15 VOLTS	0.4 VOLTS	SINKING 20 MA MAX
OUTPUT LEAKAGE CURRENT 5 (RELEASED)			10 μA	LEAKAGE INTO SWITCH OUTPUT
OUTPUT SWITCHING TIME (SINKING 20 MA) 1				
RISE TIME		0.2 μs	1.5 μs	10% TO 90%
FALL TIME		0.1 μs	0.5 μs	90% TO 10%

REVISIONS		
A	CO-33787	J. A. L. 12 JUNE 76
B	CO35664	D. B. W. 18 JUL 75
C	CO-38223	J. A. L. 3 MAR 77
D	CO48802	D. B. W. 28 DEC 80
E	CO-60188	S. J. S. 30 MAR 82

513SS SERIES CHART I

DRAWING NUMBER M

RELEASE NO. PR-9990

REPLACES

ISSUE 6

CHECK

DRAWN J. A. L. 12 JUNE 74 CHECK E. J. W. 12 JUNE 74 CHECK

FO-32843

SCALE 3 TO 1

DO NOT SCALE PRINT

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES TOLERANCES ARE: ONE PLACE (.0) ±.030; TWO PLACE (.00) ±.015; THREE PLACE (.000) ±.005; ANGLES ±

WEIGHT

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MICRO SWITCH
FREEPORT ILLINOIS, U.S.A.
A DIVISION OF HONEYWELL
FED. MFG. CODE 51928

SOLID STATE SWITCH
MAGNETICALLY OPERATED

CATALOG LISTING
513SS SERIES
CHART I

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