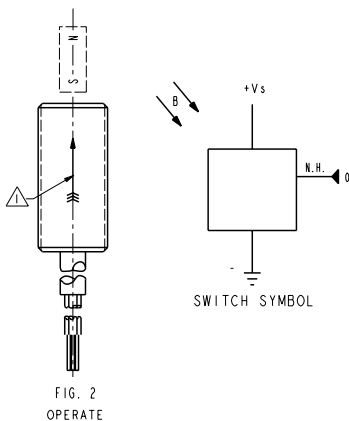
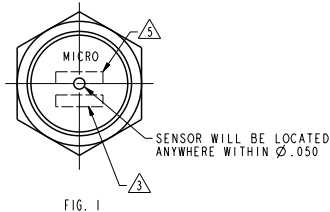
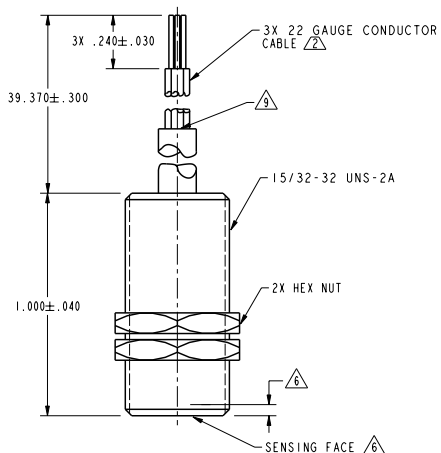


PTC/CAD 20
 BERN
 JET
 24MAY93
 JAG
 24MAY93
 3
 103SR14A-2
 REV
 01
 201712
 4
 200807
 5
 201411
 6
 201411
 7
 201501
 8
 201501
 9
 201501
 10
 201501
 11
 201501
 12
 201501
 13
 201501
 14
 201501
 15
 201501
 16
 201501
 17
 201501
 18
 201501
 19
 201501
 20
 201501
 21
 201501
 22
 201501
 23
 201501
 24
 201501
 25
 201501
 26
 201501
 27
 201501
 28
 201501
 29
 201501
 30
 201501
 31
 201501
 32
 201501
 33
 201501
 34
 201501
 35
 201501
 36
 201501
 37
 201501
 38
 201501
 39
 201501
 40
 201501
 41
 201501
 42
 201501
 43
 201501
 44
 201501
 45
 201501
 46
 201501
 47
 201501
 48
 201501
 49
 201501
 50
 201501

4.5 TO 24 VDC UNIPOLAR DEVICE

M **103SR14A-2**



OPERATING CHARACTERISTICS $\triangle \triangle$

GAUSS	
OPERATE MAX	160
RELEASE MIN	5
DIFF MIN	8

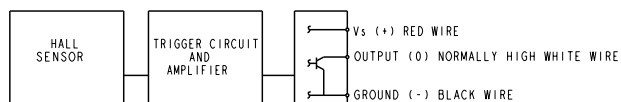
ABSOLUTE MAXIMUM RATINGS

SUPPLY VOLTAGE (V_s) \triangle	-1.0 VDC TO +25.0 VDC
VOLTAGE EXTERNALLY APPLIED TO OUTPUT	+25 VOLTS DC MAX WITH SWITCH IN "OFF" CONDITION ONLY -0.5 VOLTS MAX WITH SWITCH IN "OFF" OR "ON" CONDITION
OUTPUT CURRENT	40 mA (SINK PER OUTPUT)
TEMPERATURE OPERATE AND STORAGE	-40° C TO 100° C
MAGNETIC FLUX	NO LIMIT, THE CIRCUIT CANNOT BE DAMAGED BY MAGNETIC OVERDRIVE

ELECTRICAL CHARACTERISTICS

	MIN	TYP	MAX	REMARKS
SUPPLY CURRENT $\triangle \triangle$			10.0 mA	ON CONDITION
OUTPUT VOLTAGE (OPERATED) $\triangle \triangle$			0.4 V	SINKING 20 mA PER OUTPUT
OUTPUT LEAKAGE CURRENT (RELEASED) $\triangle \triangle$			20 μ A	LEAKAGE INTO SWITCH OUTPUT
OUTPUT SWITCHING TIME (SINKING 20 mA)				
RISE TIME \triangle			1.5 μ SEC	10% TO 90%
FALL TIME \triangle			0.5 μ SEC	90% TO 10%

NOTE: THIS DEVICE IS NOT PROTECTED AGAINST HIGH ELECTRICAL NOISE. IF ERRATIC OPERATION OCCURS AFTER INSTALLATION, INSTALL A CAPACITOR ACROSS THE INPUT TERMINALS (0.1 MFD). IF ERRATIC OPERATION CONTINUES, YOU MAY HAVE TO USE THE INDUSTRIAL DEVICES THAT MICRO SWITCH MANUFACTURES. PLEASE CONTACT YOUR LOCAL FIELD REPRESENTATIVE FOR INFORMATION.



BLOCK DIAGRAM SHOWING CURRENT SINKING OUTPUTS

- NOTES
- \triangle FLUX ENTERING THE SOUTH 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.
 - \triangle 22 GAUGE PVC INSULATED CONDUCTORS WITH MOLDED PVC JACKET
 - \triangle DATE CODE LOCATED IN THIS AREA
 - \triangle FROM -40° C TO 100° C AND 4.5 TO 24 VOLTS
 - \triangle CATALOG LISTING LOCATED IN THIS AREA
 - \triangle SENSITIVE AREA IS LOCATED .050 BEHIND THE SENSING FACE
 - \triangle AT 24 \pm 2° C
 - \triangle V_s IS THE UNREGULATED SUPPLY VOLTAGE
 - \triangle JACKET IS CUT BACK 1.37 INCHES FROM FREE END OF LEADS



THIRD ANGLE PROJECTION
SCALE 3:1
DO NOT SCALE PRINT
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE
ONE PLACE (.01) \pm .030
TWO PLACES (.001) \pm .015
THREE PLACES (.0001) \pm .005
ANGLES \pm
WEIGHT

THIS DRAWING COVERS A PROPRIETARY ITEM AND IS THE PROPERTY OF MICRO SWITCH, A DIVISION OF HONEYWELL. THIS DRAWING IS NOT TO BE COPIED OR USED WITHOUT THE APPROVAL OF MICRO SWITCH.

MICRO SWITCH a Honeywell Division	MAGNETICALLY OPERATED CYLINDRICAL HALL SWITCH	CATALOG LISTING 103SR14A-2
	FEDERAL MANUFACTURING CODE 91229	

ANSI Y14.5M-1982 APPLIES