

OPERATING CHARACTERISTICS

Table with 2 columns: GAUSS, OPERATE MAX, RELEASE MIN, DIFF MIN. Values: OPERATE MAX 495, RELEASE MIN 200, DIFF MIN 35.

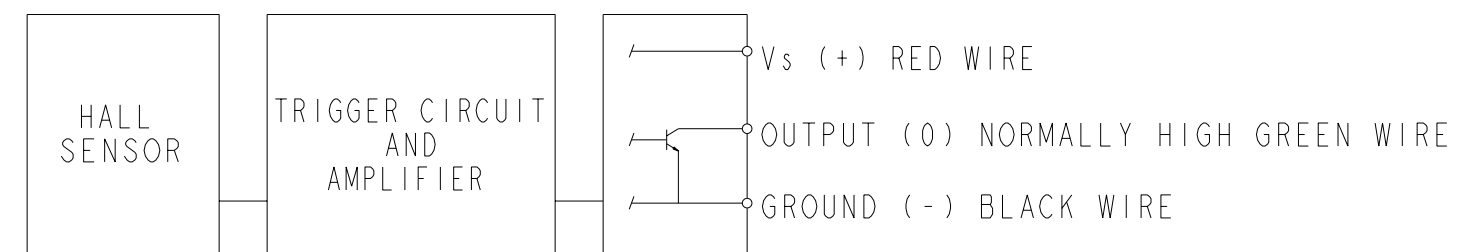
ABSOLUTE MAXIMUM RATINGS

Table with 2 columns: SUPPLY VOLTAGE, VOLTAGE EXTERNALLY APPLIED, OUTPUT CURRENT, TEMPERATURE, MAGNETIC FLUX. Values range from -1.0 VDC to +25.0 VDC.

ELECTRICAL CHARACTERISTICS

Table with 5 columns: MIN, TYP, MAX, REMARKS. Parameters include SUPPLY CURRENT, OUTPUT VOLTAGE, OUTPUT LEAKAGE CURRENT, and OUTPUT SWITCHING TIME.

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

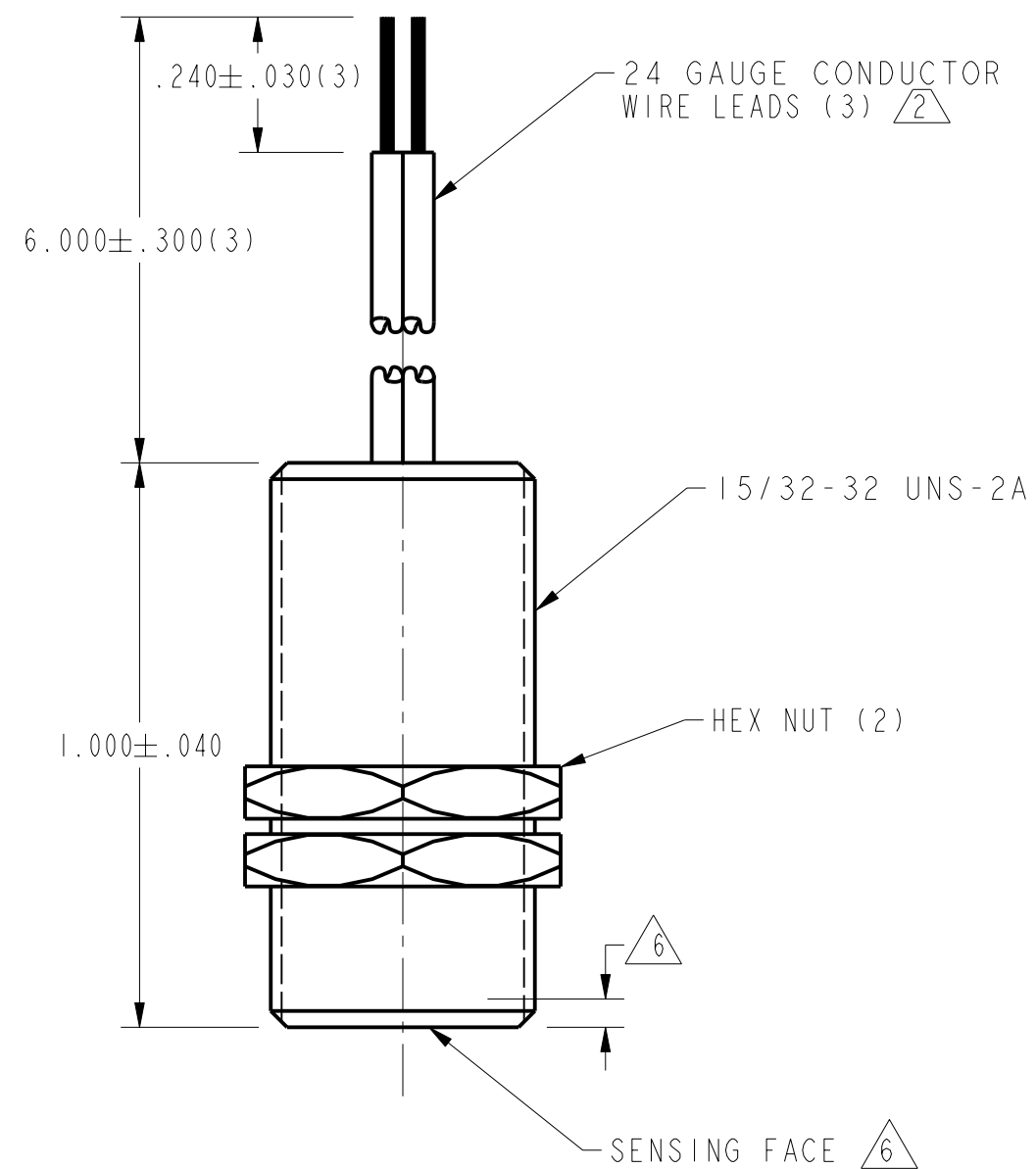
- 1 FLUX ENTERING THE SOUTH POLE OF THE MAGNET WILL OPERATE THE SENSOR WHEN MAGNET IS POSITIONED AS SHOWN IN FIGURE 2. THIS ASSUMES THE CONVENTION THAT THE DIRECTION OF THE EXTERNAL FLUX OF A MAGNET IS FROM THE NORTH TO THE SOUTH POLE OF THE MAGNET.
2 LEADWIRES (INDIVIDUAL WIRES) ARE 24 GAGE STRANDED WITH IRRADIATED POLYETHYLENE INSULATION.
3 DATE CODE LOCATED IN THIS AREA.
4 FROM -40°C TO 100°C AND 4.5 TO 24 VOLTS.
5 CATALOG LISTING LOCATED IN THIS AREA.
6 SENSITIVE AREA IS LOCATED .050 BEHIND THE SENSING FACE.
7 AT 24±2°C.
8 Vs IS THE UNREGULATED SUPPLY VOLTAGE.

103SR13A-1 DRAWING NUMBER RELEASE NO. PR-4252 PAGES 1 OF 1 TSM 27JUL99 CHECK JAF 27JUL99 CHECK JAF 27JUL99 CHECK P.T.C./CAD 20

MICRO SWITCH a Honeywell Division MAGNETICALLY OPERATED CYLINDRICAL HALL SWITCH CATALOG LISTING 103SR13A-1 THIS DRAWING COVERS A PROPRIETARY ITEM AND IS THE PROPERTY OF MICRO SWITCH. A DIVISION OF HONEYWELL.

THIRD ANGLE PROJECTION SCALE 3" = 1" DO NOT SCALE PRINT UNLESS OTHERWISE SPECIFIED TOLERANCES ARE ONE PLACE (.0) ±.030 TWO PLACES (.00) ±.015 THREE PLACES (.000) ±.005 ANGLES ± WEIGHT

ANSI Y14.5M-1982 APPLIES



OPERATING CHARACTERISTICS

| | |
|-------------|-----|
| GAUSS | |
| OPERATE MAX | 495 |
| RELEASE MIN | 200 |
| DIFF MIN | 35 |

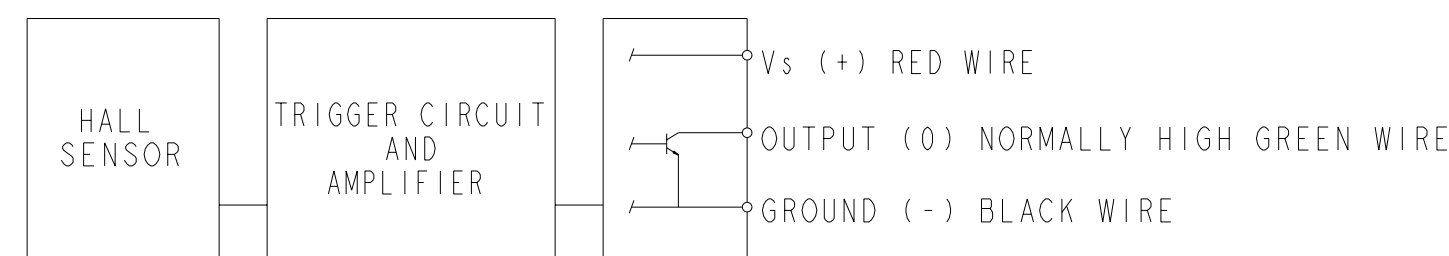
ABSOLUTE MAXIMUM RATINGS

| | |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------|
| SUPPLY VOLTAGE (V _s) | -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 | | | 10.0 mA | ON CONDITION |
| OUTPUT VOLTAGE (OPERATED) | | | 0.4 V | SINKING 20 mA PER OUTPUT |
| OUTPUT LEAKAGE CURRENT (RELEASED) | | | 20 μA | LEAKAGE INTO SWITCH OUTPUT |
| OUTPUT SWITCHING TIME (SINKING 20 mA) | | | | |
| RISE TIME | | | 1.5 μSEC | 10% TO 90% |
| FALL TIME | | | 0.5 μSEC | 90% TO 10% |

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| | |
|-------------------------------------------|---------------|
| THIRD ANGLE PROJECTION | |
| SCALE 3" = 1" | |
| DO NOT SCALE PRINT | |
| UNLESS OTHERWISE SPECIFIED TOLERANCES ARE | |
| ONE PLACE | (.0) ± .030 |
| TWO PLACES | (.00) ± .015 |
| THREE PLACES | (.000) ± .005 |
| ANGLES | ± |
| WEIGHT | |

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|---------------------------------------------|------------------------------------------------------|--------------------------------------|
| MICRO SWITCH a Honeywell Division | MAGNETICALLY OPERATED CYLINDRICAL HALL SWITCH | CATALOG LISTING 103SR13A-1 |
| | FEDERAL MANUFACTURING CODE 91929 | |

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|-----------------|-------------|---------------------|
| 103SR13A-1 | PAGE 1 OF 1 | REPLACES |
| 12 | ISSUE | RELEASE NO. PR-4252 |
| REVISIONS | CHECK | |
| A | CO95082A | 27 JUL 99 |
| B | 201747 | JUL 99 |
| DRAWN: JAF | | |
| CHECK: JAF | | |
| DATE: 27 JUL 99 | | |
| DRAWN: JAF | | |
| CHECK: JAF | | |
| DATE: 27 JUL 99 | | |
| DRAWN: JAF | | |
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Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

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