

# SAT Series Specifications

| MECHANICAL (X & Y AXES) |                          |
|-------------------------|--------------------------|
| ANGLE OF MOVEMENT       | 60° (30° EACH DIRECTION) |
| EXPECTED CYCLE LIFE     | 2.5 MILLION              |
| CENTERING               | SPRING RETURN            |
| MAX. VERTICAL LOAD      | 67.5 lbf                 |
| MAX. HORIZONTAL LOAD    | 40 lbf *                 |

\* Measured 0.62" Above Panel Surface

| ELECTRICAL               |                |
|--------------------------|----------------|
| SENSOR TYPE              | HALL EFFECT    |
| RESOLUTION               | 12 BIT         |
| SUPPLY VOLTAGE           | 5VDC ± 0.01VDC |
| OUTPUT VOLTAGE           | SEE OPTIONS    |
| RETURN TO CENTER VOLTAGE | ± 50mV         |
| OVERVOLTAGE MAX.         | 20VDC          |
| REVERSE POLARITY MAX.    | -10VDC         |

| ENVIRONMENTAL          |   |
|------------------------|---|
| OPERATING TEMPERATURE  | -40°F TO 185°F                                |
| STORAGE TEMPERATURE    | -40°F TO 185°F                                |
| IP SEALING ABOVE PANEL | IP67  |
| EMC IMMUNITY LEVEL     | EN61000-4-3 *Compliance to 30A/m              |
| EMC EMISSIONS LEVEL    | EN61000-6-3                                   |
| ESD IMMUNITY LEVEL     | EN61000-4-2 *Compliance to ±15kV/±8kV         |
| VIBRATION TESTING      | Per SAE J1455 Section 4.9 & MIL-STD810G 514.6 |
| MECHANICAL SHOCK       | Per SAE J1455 Section 4.10 & MIL-STD-202G     |

\*Extended Testing Levels

| MOLEX 510210400 CONNECTOR |            |             |
|---------------------------|------------|-------------|
| PIN #                     | WIRE COLOR | DESCRIPTION |
| 1                         | N/A        | N/A         |
| 2                         | YELLOW     | SENSOR      |
| 3                         | BLACK      | GROUND      |
| 4                         | RED        | POWER (+5V) |



| MATERIALS     |                              |
|---------------|------------------------------|
| HOUSING       | MINERAL & GLASS FILLED NYLON |
| BOOT/ACTUATOR | SILICONE                     |

IP RATING: IP67 (ABOVE PANEL, ALL CONFIGURATIONS)