



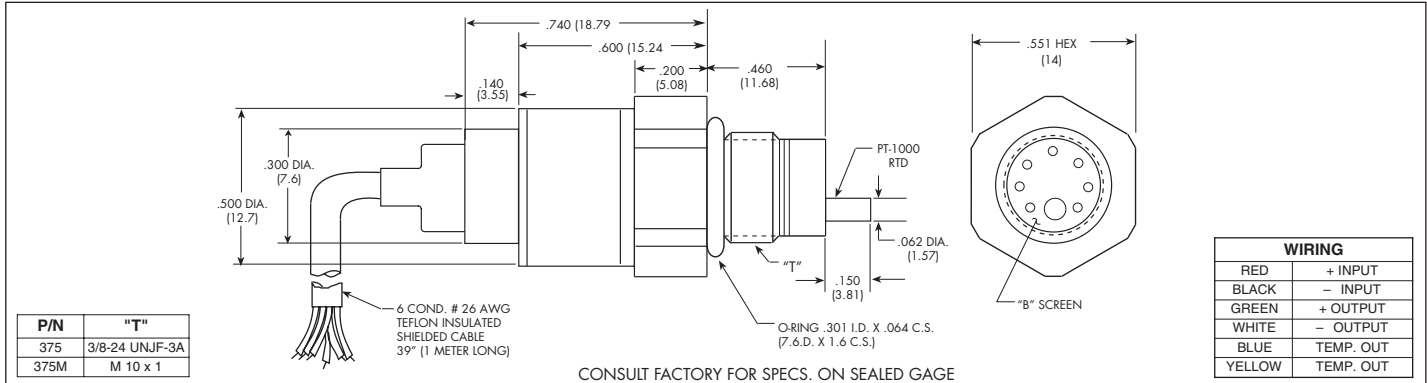
MINIATURE IS® PRESSURE TRANSDUCER WITH INTEGRATED TEMPERATURE SENSOR

HKL/T-375 (M) SERIES

- Combined Pressure and Temperature Capability
- Robust Construction
- Patented Leadless Technology VIS®
- Excellent Long Term Stability
- Intrinsically Safe Patented Leadless Technology Applications Available (i.e. IS-HKL/T-375)



The HKL/T-375 (M) is a miniature threaded pressure transducer/platinum RTD combination. The pressure transducer utilizes a patented silicon on silicon design. The platinum RTD protrudes beside the diaphragm to sense media temperature. The pressure and temperature devices are designed to operate independently. All wetted parts of the transducer are compatible with all common aircraft and automotive fluids.



| | | | | | | | |
|--|---|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| INPUT | 1.7 | 3.5 | 7 | 17 | 35 | 70 | 170 BAR |
| Pressure Range | 25 | 50 | 100 | 250 | 500 | 1000 | 2500 PSI |
| Operational Mode | Absolute, Sealed Gage | | | | | | |
| Over Pressure | 3.5 | 7 | 14 | 35 | 52 | 105 | 210 BAR |
| | 50 | 100 | 200 | 500 | 750 | 1500 | 3000 PSI |
| Burst Pressure | 3 Times Rated Pressure | | | | | | |
| Pressure Media | All Nonconductive, Noncorrosive Liquids or Gases (Most Conductive Liquids and Gases - Please Consult Factory) | | | | | | |
| Rated Electrical Excitation | 10 VDC | | | | | | |
| Maximum Electrical Excitation | 15 VDC | | | | | | |
| RTD Excitation | 1mA (2mA Max.) | | | | | | |
| Input Impedance | 1000 Ohms (Min.) | | | | | | |
| OUTPUT | | | | | | | |
| Output Impedance | 1000 Ohms (Nom.) | | | | | | |
| Full Scale Output (FSO) | 100 mV (Nom.) | | | | | | |
| RTD | 1000 Ohms Platinum, DIN EN 60751 Tables, Clas A (65% Response Time 3 Seconds Max.) | | | | | | |
| Residual Unbalance | ± 5 mV (Typ.) | | | | | | |
| Combined Non-Linearity, Hysteresis and Repeatability | ± 0.1% BFSL (Typ.), ± 0.5% BFSL (Max.) | | | | | | |
| Resolution | Infinitesimal | | | | | | |
| Natural Frequency (KHz) (Typ.) | 240 | 300 | 380 | 550 | 700 | 1000 | 1400 |
| Acceleration Sensitivity % FS/g Perpendicular | 5.0x10 ⁻⁴ | 3.0x10 ⁻⁴ | 1.5x10 ⁻⁴ | 1.0x10 ⁻⁴ | 6.0x10 ⁻⁵ | 4.0x10 ⁻⁵ | 2.5x10 ⁻⁵ |
| Transverse | 6.0x10 ⁻⁵ | 4.0x10 ⁻⁵ | 2.0x10 ⁻⁵ | 1.0x10 ⁻⁵ | 6.0x10 ⁻⁶ | 3.0x10 ⁻⁶ | 3.0x10 ⁻⁶ |
| Insulation Resistance | 100 Megohm Min. @ 50 VDC | | | | | | |
| ENVIRONMENTAL | | | | | | | |
| Operating Temperature Range | -65°F to +350°F (-55°C to +175°C) | | | | | | |
| Compensated Temperature Range | +80°F to +180°F (+25°C to +80°C) Any 100°F Within The Operating Range on Request | | | | | | |
| Thermal Zero Shift | ± 1% FS/100°F (Typ.) | | | | | | |
| Thermal Sensitivity Shift | ± 1% /100°F (Typ.) | | | | | | |
| Steady Acceleration and Linear Vibration | 100g Peak, Sine up to 5000 Hz | | | | | | |
| Humidity | 100% Relative Humidity | | | | | | |
| Mechanical Shock | 100g 11 msec. 10,000g. 100µ sec. | | | | | | |
| PHYSICAL | | | | | | | |
| Electrical Connection | 6 Conductor 26 AWG Shielded Cable 1 Meter Long | | | | | | |
| Weight | 12 Grams Excluding Cable | | | | | | |
| Pressure Sensing Principle | Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon Patented Leadless Technology | | | | | | |
| Mounting Torque | 50 Inch-Pounds (Max.) | | | | | | |

Note: Custom pressure ranges, accuracies, mechanical configurations and RTD resistance available. Dimensions are in inches. Dimensions in parenthesis are in millimeters.

Continuous duty. SUNSTAR 传感与控制 <http://www.sensor-ic.com/> TEL:0755-83376549 FAX:0755-83376182 E-MAIL: szss20@163.com