



Introducing the **NEW:**

micro IRT/c.sv-K-\*\*

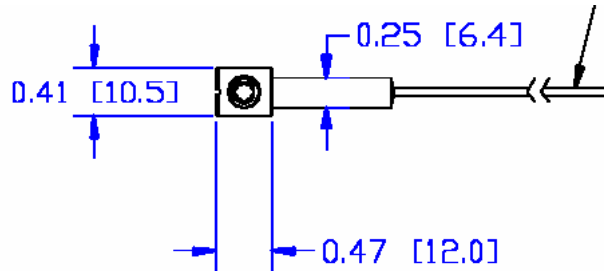
The World's Smallest Side View Mounted Infrared Temperature Sensors

**Features**

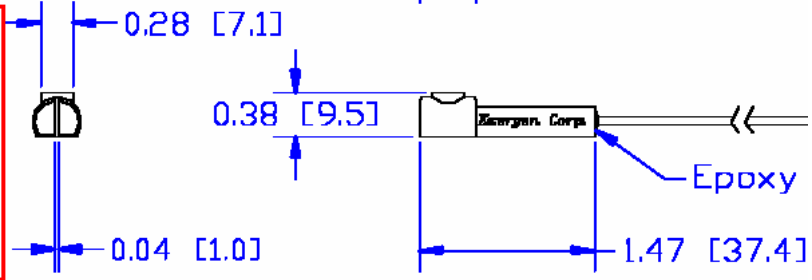
- Side view mount
- Self powered
- Small size
- Mounting rings



3' (0.9 M) of K t/c cable



| <u>SELECTION TABLE</u> |                        |
|------------------------|------------------------|
| <u>MODEL</u>           | <u>2% Linear Range</u> |
| uIRt/c.SV-K-80F/27C    | 40-118°F (4-48°C)      |
| uIRt/c.SV-K-98.6F/37C  | 77-104°F (25-40°C)     |
| uIRt/c.SV-K-140F/60C   | 90-180°F (32-82°C)     |
| uIRt/c.SV-K-180F/90C   | 170-220°F (77-104°C)   |
| uIRt/c.SV-K-240F/120C  | 220-245°F (104-118°C)  |
| uIRt/c.SV-K-280F/140C  | 270-310°F (132-154°C)  |
| uIRt/c.SV-K-340F/170C  | 330-370°F (166-188°C)  |
| uIRt/c.SV-K-440F/220C  | 415-465°F (213-241°C)  |



**Specifications**

|   |  |
|---|--|
| <b>Sensing Range</b>                    | -45 °C to 524 °C (2% linear to match K t/c, see table)   |
| <b>Ambient Temperature Range</b>        | -20 °C to 100 °C   |
| <b>Storage Temperature Range</b>        | -20 °C to 100 °C   |
| <b>Field of View of Sensing Element</b> | approximately 1:2 (100°)   |
| <b>Minimum Spot size</b>                | 3 mm (.1")   |
| <b>Dominant Spectral Response</b>       | 5.5 to 20 μm   |
| <b>Output Sensor</b>                    | K type thermocouple at temperatures close to calibration point, see Selection Table, (mV output tables available with recommendations for programmable devices). |
| <b>Impedance</b>                        | ~ 15-40 kohms, depends on model selected   |
| <b>Emissivity (e)</b>                   | .90  |
| <b>Measurement Type</b>                 | Thermopile   |
| <b>Resolution</b>                       | Approximately 0.0003°C, Johnson Noise  |
| <b>Update Time</b>                      | Instantaneous  |
| <b>Time Constant</b>                    | 50 milliseconds  |
| <b>Accuracy (Interchangeability)</b>    | 1% to factory calibration conditions   |
| <b>Dimensions</b>                       | See above  |
| <b>Housing</b>                          | Stainless Steel 303  |
| <b>Cable Assembly</b>                   | 3 feet (0.9 meters) of unshielded, duplex insulated, type K, 24 AWG, PFA jacket, rated to 500 °F (260 °C) (Shielded cable also available)                        |
| <b>Humidity</b>                         | Non-Condensing   |
| <b>Power Requirements</b>               | None   |
| <b>Environmental Ratings</b>            | Hermetically sealed, exceeds NEMA 4, 4X, IP67  |
| <b>Weight</b>                           | ~ 30 grams (1 oz.), SV model ~ 60 grams (2 oz.)  |