

# EXERGEN

C O R P O R A T I O N

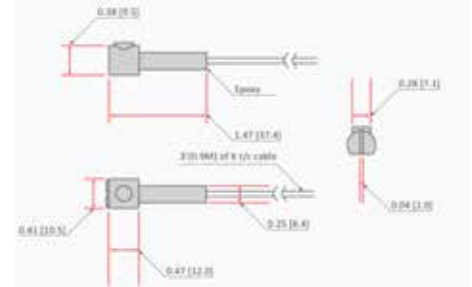
## Infrared Temperature Sensors | DATASHEET

### MICRO IRT/C.4SV

#### Product Overview

The Micro IRT/c.4SV features:

- Infrared Thermocouple IRT/c
- Non-contact
- Self-powered
- Intrinsically Safe
- Repeatability 0,01°C (0.02°F)
- Interchangeability ±1%
- Resolution approx. 0,0003°C (0.0006°F)
- Small Size



#### Technical Data

<b>Sensing Range</b>	-45 to 625°C (-49 to 1157°F)
<b>Ambient Temperature Range</b>	-20 to 100°C (-4 to 212°F) with air off -20 to 120°C (-4 to 248°F) with air on
<b>Optimum Range Selections</b>	One model: 2% linear to match a Kt/c from 212-240°C (see Temperature Selection Chart). For other temperature ranges please contact Exergen Global
<b>Field of View</b>	approximately 4:1 (14°)
<b>Minimum Spot Size</b>	3 mm (.1")
<b>Spectral Response</b>	5,5 to 20,µm
<b>Output Impedance</b>	40 Kohms

<b>Response Time</b>	60 Milliseconds
<b>Dimensions</b>	See diagram above
<b>Housing</b>	Stainless Steel, Hermetically sealed, exceeds NEMA 4X, IP67
<b>Cable</b>	0,9 m (3 ft) of unshielded, duplex insulated, type K, 24 AWG, PFA jacket rated to 260°C (500°F) (Shielded cable available upon request)
<b>Air Purge</b>	Built-in; designed for severe paint or ink environment
<b>Input Device Compatibility</b>	It is recommended to use input devices with less than 1 nA of leakage current to minimize offsets, and sensor break detection should be set to 40 Kohm maximum.
<b>Weight</b>	Approximately 60g (2oz.) with cable

#### Calibration

Ordering information Micro IRT/c.4SV-K-440F/220C

Temperature Selection Chart

