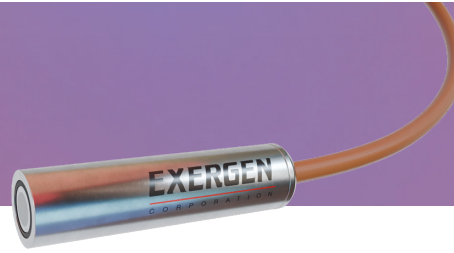


## Datasheet

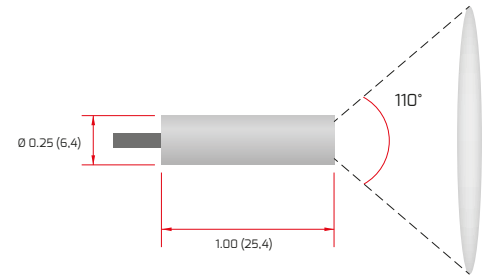
# Micro IRt/c



## Product Overview

The Micro IRt/c 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>             | -18 to 524°C (0 to 975°F)                                                                                                                     |
| <b>Ambient Temperature Range</b> | -20 to 85°C (-29 to 185°F) permanent<br>-20 to 100°C (-29 to 212°F) non permanent.<br>Air Purge jacket available for cooling to 175°C (347°F) |
| <b>Optimum Range Selections</b>  | Eight models per t/c type<br>(see Temperature Selection Chart)                                                                                |
| <b>Field of View</b>             | approximately 110° (1:2)                                                                                                                      |
| <b>Minimum Spot Size</b>         | 3 mm (1")                                                                                                                                     |
| <b>Spectral Response</b>         | 5,5 to 20µm                                                                                                                                   |
| <b>Output Impedance</b>          | 17-45 Kohms                                                                                                                                   |

|                                   |                                                                                                                                                                 |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Response Time</b>              | 50 Milliseconds                                                                                                                                                 |
| <b>Dimensions</b>                 | 6,3 mm (0.25") Dia. x 25,4 mm (1.0")                                                                                                                            |
| <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>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 30g (1oz.) with cable                                                                                                                             |

## Calibration

Ordering information **Micro IRt/c-K-** Precalibrated Temperature Range.

Temperature Selection Chart

