

## Infrared Temperature Sensors

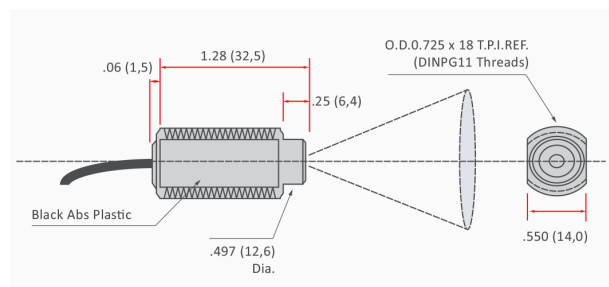
### DATASHEET

# IRT/C.01Z

## Product Overview

The IRT/c.01Z features:

- Infrared Thermocouple IRT/c
- Non-contact
- Self-powered
- Intrinsically Safe
- Repeatability 0.02°F (0.01°C)
- Interchangeability ±1%
- Resolution approx. 0.0001°C
- Small Size



## Technical Data

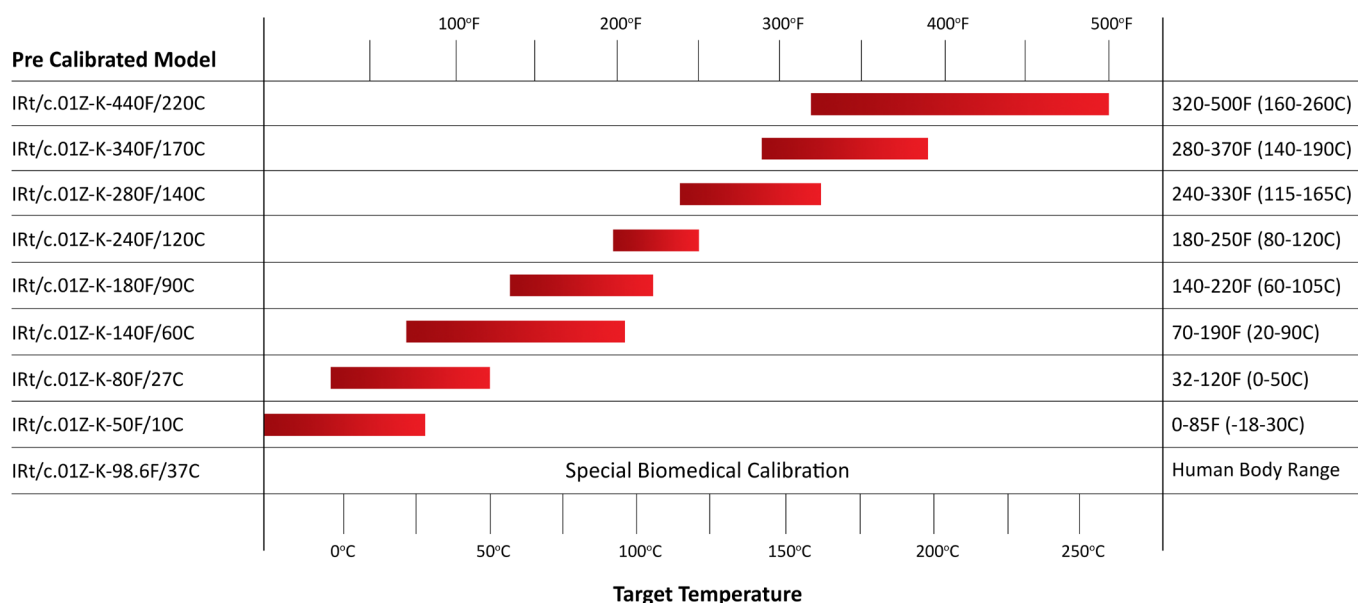
Sensing Range	-50 to 550°F (-45 to 290°C)
Ambient Temperature Range	0 to 160°F (-18 to 70°C)
Optimum Range Selections	Eight models per t/c type (see Temperature Selection Chart)
Field of View	approximately 1:1 (60°)
Minimum Spot Size	.3" (8mm)
Spectral Response	6.5 to 14μm
Output Impedance	15 to 40 Kohms approx
Response Time	100 Milliseconds

Dimensions	3.25" x 1.18" Dia. (82.5 x 29.97mm), M30 x 1.5 thread
Housing	High strength ABS, hermetically sealed, exceeds NEMA 4,4X; IP65, 67, intrinsically safe. Two locknuts supplied
Cable	K type, thermocouple extension grade, PVC jacket, unshielded
Weight	1.4oz. (40 grams) with cable
Input Device Compatibility	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.

## Calibration

Ordering information **IRT/c.01Z-K-** (Precalibrated Temperature Range).

Temperature Selection Chart



Specifications subject to change without notice