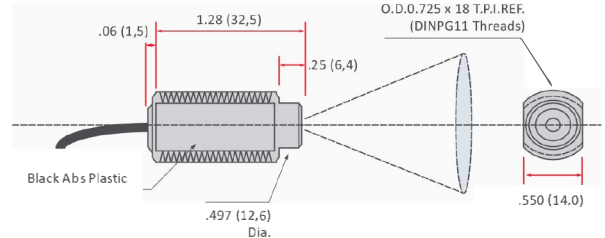


IRT/C.01

Product Overview

The IRT/c.01 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)	Response Time	100 Milliseconds
Ambient Temperature Range	0 to 160°F (-18 to 70°C)	Dimensions	1.28" x .71" Dia. (32.5 x 20mm)
Optimum Range Selections	Eight models per t/c type (see Temperature Selection Chart)	Housing	High strength ABS, hermetically sealed, exceeds NEMA 4,4X; IP65, 67, intrinsically safe. Two locknuts supplied
Field of View	approximately 1:1 (60°)	Cable	Thermocouple extension grade, PVC jacket, unshielded, 3' (0.9 m)
Minimum Spot Size	.3" (8mm)	Weight	1.4oz. (40 grams) with cable
Spectral Response	6.5 to 14μm		
Output Impedance	3 Kohms approx		

Calibration

Ordering information IRT/c.01-* (Thermocouple Type) - (Pre-calibrated Temperature Range). Thermocouple type J,K,E,T over temperature range specified.

Temperature Selection Chart

Pre Calibrated Model	100°F	200°F	300°F	400°F	500°F	
IRT/c.01-*-440F/220C						320-500F (160-260C)
IRT/c.01-*-340F/170C						280-370F (140-190C)
IRT/c.01-*-280F/140C						240-330F (115-165C)
IRT/c.01-*-240F/120C						180-250F (80-120C)
IRT/c.01-*-180F/90C						140-220F (60-105C)
IRT/c.01-*-140F/60C						70-190F (20-90C)
IRT/c.01-*-80F/27C						32-120F (0-50C)
IRT/c.01-*-50F/10C						0-85F (-18-30C)
IRT/c.01-*-98.6F/37C	Special Biomedical Calibration					Human Body Range
	0°C	50 C	100°C	150°C	200°C	250°C

Target Temperature