

EXERGEN

C O R P O R A T I O N

Infrared Temperature Sensors

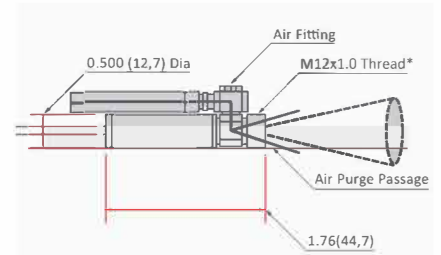
DATASHEET

IRT/C.3X

Product Overview

The IRT/c.3X 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



*IRT/c.3X includes ss mounting bracket & locknuts

Technical Data

Sensing Range	-50 to 1200°F (-45 to 650°C)
Ambient Temperature Range	-58 to 185 °F (-50 to 85 °C) with air on: -58 to 212 °F (-50 to 100 °C)
Optimum Range Selections	Eight models per t/c type (see Temperature Selection Chart)
Field of View	approximately 3:1 (17°)
Minimum Spot Size	.25" (6mm)
Spectral Response	6.5 to 14µm
Output Impedance	4 to 8 Kohms approx
Response Time	100 Milliseconds

Dimensions	1.76" x .50" Dia. (44.7 x 12.7mm)
Housing	Stainless steel, hermetically sealed, exceeds NEMA 4,4X; IP65, 67, cable shield grounded to housing and electrically isolated from signal
Cable	Twisted shielded pair of base thermocouple material (J,K,E,T), 3ft (.9m) std length, Telfon sheated, rated to 392°F (200°C) continuous service
Weight	1.4oz. (40 grams) with cable
Air Purge	Built-in; designed for severe paint or ink environment; 3' (0.9 m) of tubing provided

Calibration

Ordering information IRT/c.3X-* (Thermocouple Type) - (Precalibrated Temperature Range). Thermocouple type J,K,E,T over temperature range specified.

Temperature Selection Chart

