

# EXERGEN

C O R P O R A T I O N

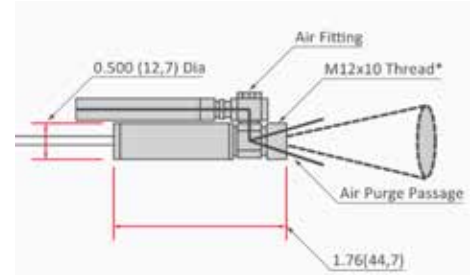
## Infrared Temperature Sensors | DATASHEET

### IRT/C.3X

### Product Overview

The IRT/c.3X features:

- Infrared Thermocouple IRT/c
- Non-contact
- Self-powered
- Intrinsically Safe
- Repeatability 0,01°C (0.02°F)
- Interchangeability ±1%
- Resolution approx. 0,0001°C (0.0002°F)
- Small Size



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

### Technical Data

<b>Sensing Range</b>	-45 to 650°C (-50 to 1200°F)
<b>Ambient Temperature Range</b>	-58 to 185 °F (-50 to 85 °C) with air on: -58 to 212 °F (-50 to 100 °C)
<b>Optimum Range Selections</b>	Eight models per t/c type (see Temperature Selection Chart)
<b>Field of View</b>	approximately 17° (3:1)
<b>Minimum Spot Size</b>	6 mm (.25")
<b>Spectral Response</b>	6,5 to 14 <sub>μ</sub> m
<b>Output Impedance</b>	4 to 8 Kohms approx

<b>Response Time</b>	100 Milliseconds
<b>Dimensions</b>	44,7 x 12,7 mm Dia. (1.76" x .50")
<b>Housing</b>	Stainless steel, hermetically sealed, exceeds NEMA 4,4X; IP65, 67, cable shield grounded to housing and electrically isolated from signal
<b>Cable</b>	Twisted shielded pair of base thermocouple material (J,K,E,T), 0,9 m (3 ft) std length, Teflon sheathed, rated to 200°C (392°F) continuous service
<b>Air Purge</b>	Built-in; designed for severe paint or ink environment
<b>Weight</b>	40g (1.4oz.) with cable

### Calibration

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

Temperature Selection Chart

