

# EXERGEN

C O R P O R A T I O N

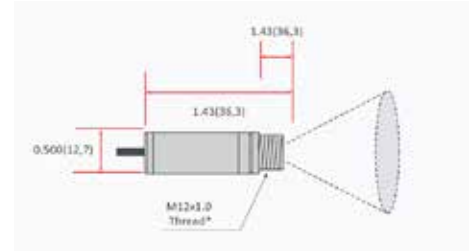
## Infrared Temperature Sensors | DATASHEET

### IRT/C.1X

### Product Overview

The Irt/c.1X 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



### Technical Data

<b>Sensing Range</b>	-45 to 650°C (-50 to 1200°F)
<b>Ambient Temperature Range</b>	-18 to 100°C (0 to 212°F)
<b>Optimum Range Selections</b>	Eight models per t/c type (see Temperature Selection Chart)
<b>Field of View</b>	approximately 60° (1:1)
<b>Minimum Spot Size</b>	8 mm (.3")
<b>Spectral Response</b>	6,5 to 14µm
<b>Output Impedance</b>	3 Kohms approx

<b>Response Time</b>	100 Milliseconds
<b>Dimensions</b>	36 x 12,7 mm Dia. (1.43" 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>Weight</b>	40g (1.4 oz.) with cable

### Calibration

Ordering information Irt/c.1X-\* (Thermocouple Type) - (Pre-calibrated Temperature Range). Thermocouple type J,K,E,T over temperature range specified.

Temperature Selection Chart

