

# EXERGEN

C O R P O R A T I O N

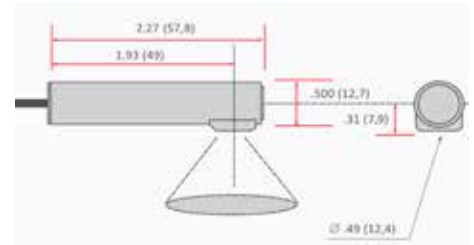
## Infrared Temperature Sensors | DATASHEET

### IRT/C.SV

### Product Overview

The IRT/c.SV 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 14,μm  |
| <b>Output Impedance</b>          | 3 Kohms approx  |

|                      |  |
|----------------------|--|
| <b>Response Time</b> | 100 Milliseconds   |
| <b>Dimensions</b>    | 57,8 x 12,7 mm Dia. (2.77" 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.10-K- (Precalibrated Temperature Range).

Temperature Selection Chart

