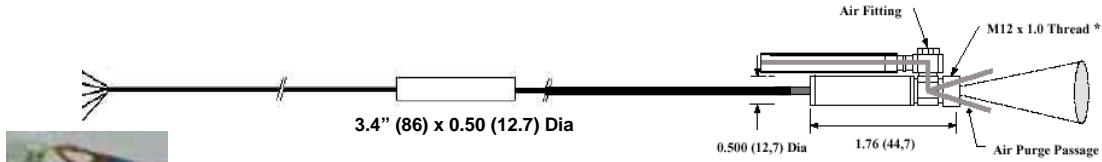




## IRt/c.3X-RF

Non-contact temperature sensor with 0-10V output for refrigerated foods. Hermetically sealed, immersible for washdown, with built in air purge.



\*IRt/c.3X includes ss mounting bracket and locknuts.



Inline transmitter

IRt/c.3X

**WIRING**  
**RED: + POWER**  
**BLACK: - POWER**  
**GREEN: + SIGNAL**  
**WHITE: - SIGNAL**  
**BARE: GND/SHIELD**

### Features

- IP 67, NEMA 4X rated
- Non contact, sanitary, no cross contamination
- Calibrated for food temperature range (0 to 100 °F. -18 to 27 °C)
- Drift free output of 0-10V with changes in ambient
- Stainless steel construction can withstand harsh environments
- Inline design requires no mechanical support
- Reliable (minimal downtime)
- Precalibrated for IRt/c, no span or zero adjustment necessary

### Specifications

Sensing Range	0 to 100 °F (-18 to 38 °C)
Ambient Temperature Range	0 to 100 °F (-18 to 38 °C)
Storage Temperature Range	0 to 100 °F (-18 to 38 °C)
Field of View of Sensing Element	approximately 3:1 (17°)
Minimum Spot size	6 mm (.25")
Dominant Spectral Response	6.5 to 14 μm
Output Sensor	0-10V
Emissivity (e)	.90
Measurement Type	Thermopile
Response Time (95% of step change)	~ 250 msec (10 Hz bandwidth)
Accuracy (Interchangeability)	±3.5°F of reading (Optimized at 50°F with ±0.5°F accuracy at 50°F)
Repeatability	±1% of reading
Dimensions	See above
Housing	Stainless Steel, hermetically sealed, meets or exceeds all applicable NEMA ratings, housing electrically isolated from signal
Cable Assembly	10 feet of twisted shielded pair of base thermocouple material, teflon sheathed, type K, 24 AWG, rated to 392°F (200 °C) from IRt/c and 10 feet of 5 wire Belden 24 AWG copper wire (Power +, Power -, Signal +, Signal -, GND/SHIELD)
Humidity	Non-Condensing
Power Requirements	24VDC (±5%)
Environmental	Hermetically sealed, exceeds NEMA 4X, IP67, CE and RoHS rated