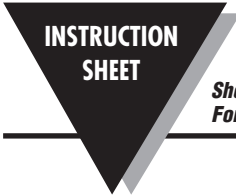




OS36-3-K-1200F

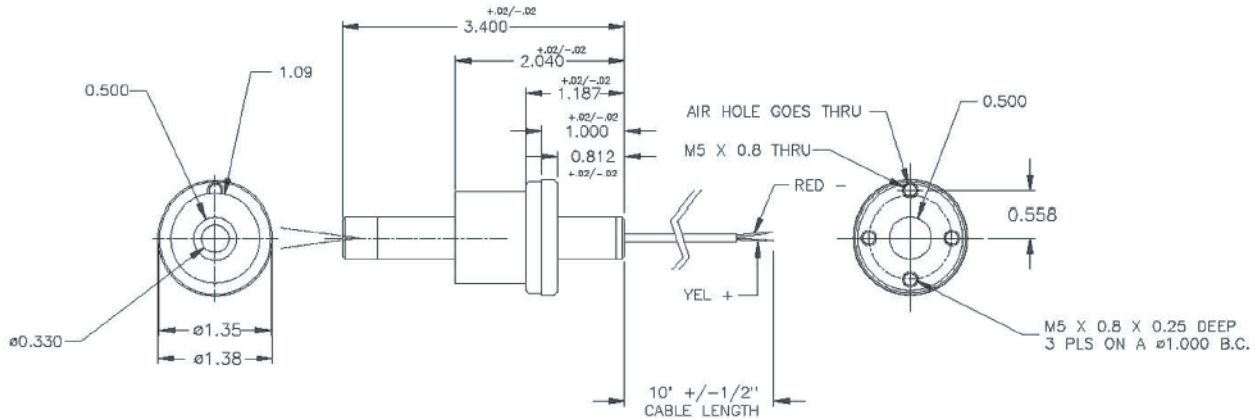
Non-Contact Temperature Sensor



M4684/0808

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Withstands extreme ambient temperature changes and holds true accuracy



- Withstands extreme ambient temperature changes
- Maintains accuracy with thermal shock
- High pressure and vacuum compatible
- Drift free
- Rugged housing
- Self powered
- Reliable
- K type thermocouple output
- Fast response time

Specifications

Sensing Range	-50 to 1200°F (-45 to 650°C)
Ambient Temperature Range	-50 to 212°F (-45 to 100°C)
Storage Temperature Range	-50 to 212°F (-45 °C to 100°C)
Field of View of Sensing Element	approximately 3:1 (17°)
Minimum Spot size	6 mm (0.25")
Dominant Spectral Response	6.5 to 14 μm
Output Sensor	K type thermocouple
Impedance	4-8 Kohms
Emissivity (e)	0.90
Measurement Type	Thermopile
Resolution	Approximately 0.00018°C, Johnson Noise
Response Time (95% of step change)	100 milliseconds
Accuracy (Interchangeability)	1% to factory calibration conditions
Dimensions	See above
Housing	Stainless Steel 303
Cable Assembly	10 feet of twisted shielded pair of base thermocouple material, teflon sheathed, type K, 24 AWG, rated to 392°F (200°C)
Humidity	Non-Condensing
Power Requirements	None
Environmental	Hermetically sealed, exceeds NEMA 4X, IP67, Intrinsically Safe, CE and RoHS rated



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WARNING: These products are not designed for use in, and should not be used for, human applications.



WARRANTY/DISCLAIMER

OMEGA ENGINEERING, INC. warrants this unit to be free of defects in materials and workmanship for a period of **25 months** from date of purchase. OMEGA's WARRANTY adds an additional one (1) month grace period to the normal **two (2) year product warranty** to cover handling and shipping time. This ensures that OMEGA's customers receive maximum coverage on each product.

If the unit malfunctions, it must be returned to the factory for evaluation. OMEGA's Customer Service Department will issue an Authorized Return (AR) number immediately upon phone or written request. Upon examination by OMEGA, if the unit is found to be defective, it will be repaired or replaced at no charge. OMEGA's WARRANTY does not apply to defects resulting from any action of the purchaser, including but not limited to mishandling, improper interfacing, operation outside of design limits, improper repair, or unauthorized modification. This WARRANTY is VOID if the unit shows evidence of having been tampered with or shows evidence of having been damaged as a result of excessive corrosion; or current, heat, moisture or vibration; improper specification; misapplication; misuse or other operating conditions outside of OMEGA's control. Components in which wear is not warranted, include but are not limited to contact points, fuses, and triacs.

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RETURN REQUESTS / INQUIRIES

Direct all warranty and repair requests/inquiries to the OMEGA Customer Service Department. BEFORE RETURNING ANY PRODUCT(S) TO OMEGA, PURCHASER MUST OBTAIN AN AUTHORIZED RETURN (AR) NUMBER FROM OMEGA'S CUSTOMER SERVICE DEPARTMENT (IN ORDER TO AVOID PROCESSING DELAYS). The assigned AR number should then be marked on the outside of the return package and on any correspondence.

The purchaser is responsible for shipping charges, freight, insurance and proper packaging to prevent breakage in transit.

FOR **WARRANTY** RETURNS, please have the following information available BEFORE contacting OMEGA:

1. Purchase Order number under which the product was PURCHASED,
2. Model and serial number of the product under warranty, and
3. Repair instructions and/or specific problems relative to the product.

FOR **NON-WARRANTY** REPAIRS, consult OMEGA for current repair charges. Have the following information available BEFORE contacting OMEGA:

1. Purchase Order number to cover the COST of the repair,
2. Model and serial number of the product, and
3. Repair instructions and/or specific problems relative to the product.

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