

T H E R M O M E T R I C S
A C O M M I T M E N T T O E X C E L L E N C E

Pigtail Manifold Air Temperature Sensor (MAT)



The pigtail manifold air temperature sensor measures the air temperature in the intake manifold of several sizes of diesel engines. Its function is to assist the engine control unit in engine control. This results in better fuel efficiency and lower emissions/

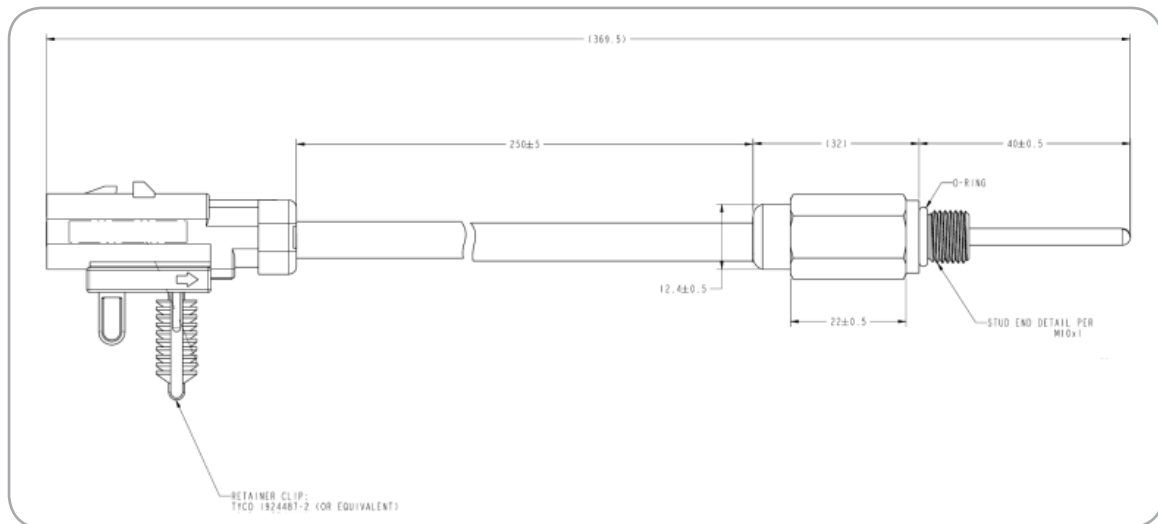
Applications

- Engine control and monitoring

Features

- Harsh Environment, Austenitic Stainless Body
- Fast Response Time
- Low Stem Effect Error

Amphenol
Advanced Sensors



Specifications

R @ 77°C (25°C)

3 KΩ ± 1.9%

B (25/85)°C

3974K

Operating Temperature

-22°F to 176°F (-30°C to 80°C)

Storage Temperature

-40°F to 302°F (-40°C to 150°C)

Response time

9-13 seconds (in air) at 6 m/s

Weight

Ref. - 55 grams

Mating Connector

Mates with Tyco AmpSeal 16, P/N 776522-2 (REFERENCE KEY 2)

Amphenol Advanced Sensors Resistance vs. Temperature Data

Resistance = 321.7 Ohms at 85.00 °C Rtol. @ 25°C 1.20%

Temp. (°C)	Rnominal (ohms)	Res. Tol. ±%	Rmin. (Ohms)	Rmax. (Ohms)
-40	100,950	3.0	97,922	103,979
-20	29121	2.6	28,363	29,878
0	9795	2.2	9,579	10,010
60	746.4	1.4	735.9	756.8
85	321.7	1.2	317.8	325.5
150	55.6	1.4	54.8	56.3

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AAS-920-522A-03/2014