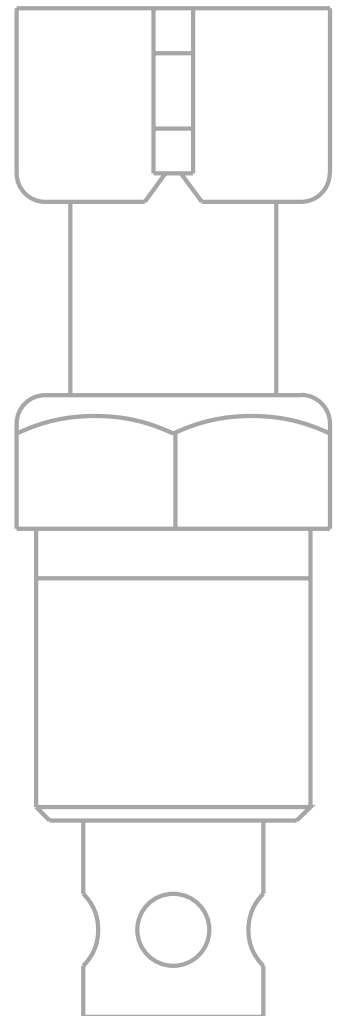


1090173, 1090174
Fan Drive Control
Temperature
Sensors





Technical Bulletin
1090173, 1090174
Fan Drive Control Temperature Sensors

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DESCRIPTION

The Sauer-Danfoss family of analog temperature sensors is designed to operate in conjunction with Sauer-Danfoss Fan Drive Control (FDC) electronic modules. The sensors have been engineered to provide years of dependable service while operating in harsh on and off road environments.

Two models are available: An air sensor typically used to measure engine charge air temperature and a liquid sensor typically used to measure engine coolant or oil temperature.

FEATURES

- Integrated connector and sensor body
- Brass body construction
- Anti-fouling air temperature sensor design
- 50° C to 125° C operating temperature range, FDC software configurable

TECHNICAL DATA

The 1090173 and 1090174 are thermistor-type temperature sensors. (See Table A.)

Table A. Temperature Versus Resistance Limits.

MEASURED TEMP. ° C	RESISTANCE, OHMS	
	NOM.	TOLERANCE
50	810.9	±5%
80	283.0	5%
100	152.9	±8%
125	76.9±	±8%



For proper operation, air temperature sensors must be mounted at the top of the manifold pipe with the sensor tip facing down.

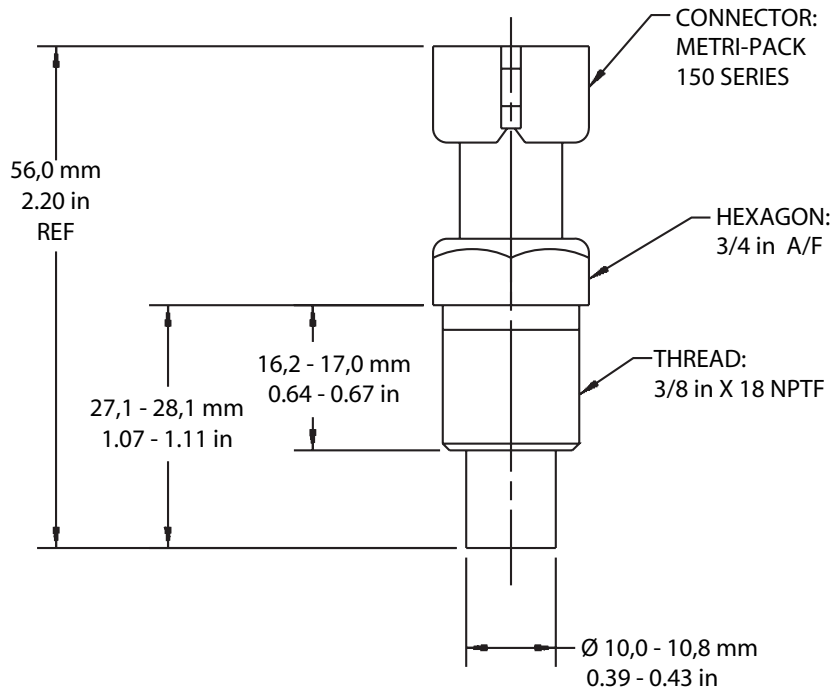
Connector

Delphi Metri-Pack 150 series

Mating Connector

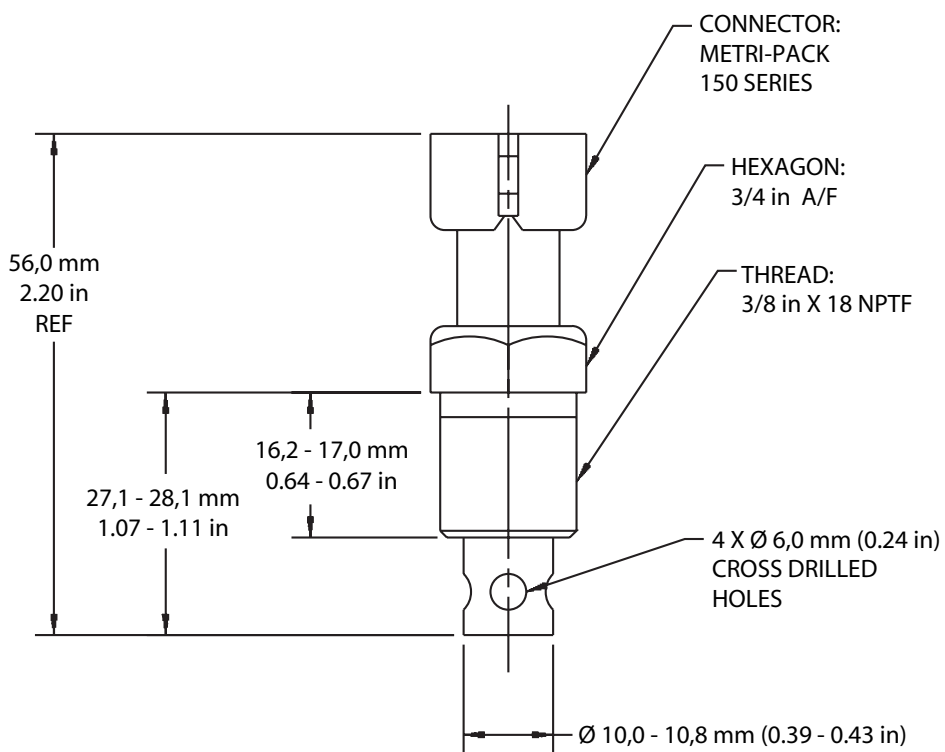
Mating Connector Bag Assembly:
Sauer-Danfoss part number K23436

**DIMENSIONS OF THE
1090173
FAN DRIVE CONTROL
LIQUID TEMPERATURE
SENSOR**



2053

**DIMENSIONS OF THE
1090174
FAN DRIVE CONTROL
AIR TEMPERATURE
SENSOR**



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REPAIR INFORMATION

Temperature sensors are not repairable and must be replaced if a failure occurs.

AVAILABLE MODELS

Liquid temperature sensor

Sauer-Danfoss part number: 1090173

Air temperature sensor

Sauer-Danfoss part number: 1090174

CUSTOMER SERVICE

Order From

Sauer-Danfoss (US) Company
Customer Service Department
3500 Annapolis Lane North
Minneapolis, Minnesota 55447
Phone: (763) 509-2084
Fax: (763) 559-0108

Sauer-Danfoss (Neumünster) GmbH & Co.
Order Entry Department
Postfach 2460, D-24531 Neumünster
Krokamp 35, D-24539 Neumünster
Phone: +49 4321 871 0
Fax: +49 4321 871 284