

Air Flow Sensor Replacement

Contents

This document shows how to remove and replace an air flow sensor.

What This Kit Contains

Using the table below, verify that you have received the appropriate items in your kit:

For this part:	You should receive this quantity:
air flow sensor	1

Other Items Needed

Before you begin, be sure you also have the following:

- Tools you will need to:
 - Test for voltage (multimeter)
 - Loosen and tighten screws (slotted screwdriver)
- Documentation:
 - Your drive system schematics
 - Your drive's user manual

Safety Precautions

The following general precautions apply when working on drives:



ATTENTION: Only those familiar with the drive system, the products used in the system, and the associated machinery should plan or implement the installation, startup, and future maintenance of the system. Failure to comply can result in personal injury and/or equipment damage.

ATTENTION: Verify that all sources of AC and DC power are deenergized and locked out or tagged out in accordance with the requirements of ANSI/NFPA 70E, Part II.

ATTENTION: The system may contain stored energy devices. To avoid the hazard of electrical shock, verify that all voltage on capacitors has been discharged before attempting to service, repair, or remove a drive system or its components. You should only attempt the procedures in this manual if you are qualified to do so and are familiar with solid-state control equipment and the safety procedures in publication NFPA 70E.

ATTENTION: When servicing any unit, do not drop any nuts, bolts, washers, etc. inside the unit, as they may cause a short circuit on power up.

ATTENTION: This drive system contains ESD (Electrostatic Discharge) sensitive parts and assemblies. Static control precautions are required when installing, testing, or repairing this assembly. Component damage can result if ESD control procedures are not followed. If you are not familiar with static control procedures, refer to Rockwell Automation publication 8000-4.5.2, *Guarding Against Electrostatic Damage* or any other applicable ESD protection handbook.

Preliminary Steps

Before replacing the air flow sensor, shut off the drive power, wait five minutes for the voltage to discharge, open the appropriate bay door, and remove the Lexan™ shielding.

Removing the Air Flow Sensor

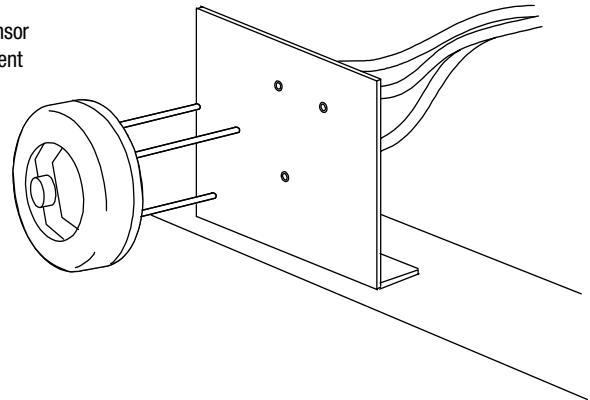
1. Using a voltmeter, test the voltage across the three phases, then across the air flow sensor leads.



ATTENTION: If there is any voltage present, remove the source of the voltage and check for voltages again before proceeding to the next step.

2. Pull the air flow sensor out from the socket.

Typical Sensor Replacement



Replacing the Air Flow Sensor

1. Plug the new sensor into the socket.
2. Verify that the socket leads, terminal connections (on the air flow PCB), and crimped wires are secure.

Concluding Steps

After installing the air flow sensor, replace all Lexan shielding and secure the bay door. Dispose of old parts according to your company procedures and local ordinances.

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Rockwell Automation Headquarters, 1201 South Second Street, Milwaukee, WI 53204 USA, Tel: (1) 414 382-2000, Fax: (1) 414 382-4444

Rockwell Automation European Headquarters SA/NV, avenue Herrmann Debrouxlaan, 46, 1160 Brussels, Belgium, Tel: (32) 2 663 06 00, Fax: (32) 2 663 06 40

Rockwell Automation Asia Pacific Headquarters, 27/F Citicorp Centre, 18 Whitfield Road, Causeway Bay, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846