Honeywell

Q7999A
Fuel Air Ratio Controller Wiring Subbase

PRODUCT DATA

APPLICATION

The Q7999A is a wiring subbase for the R7999 Fuel Air Ratio Controller. The wiring subbase provides terminals for field wiring. Terminals located on the R7999 Controller engage the Q7999 contacts to make electrical connections.

The Q7999A Subbase is panel-mounted.

FEATURES

- **Quick-mount wiring subbase for R7999A,B Fuel Air Ratio Controllers.**
- **Allows wiring of control system before installation of controller.**
- **Panel-mounted.**
- **NEMA 1 enclosure.**

Contents

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SPECIFICATIONS

Weight: 10 oz (0.28 kg).

Dimensions: See Fig. 1.

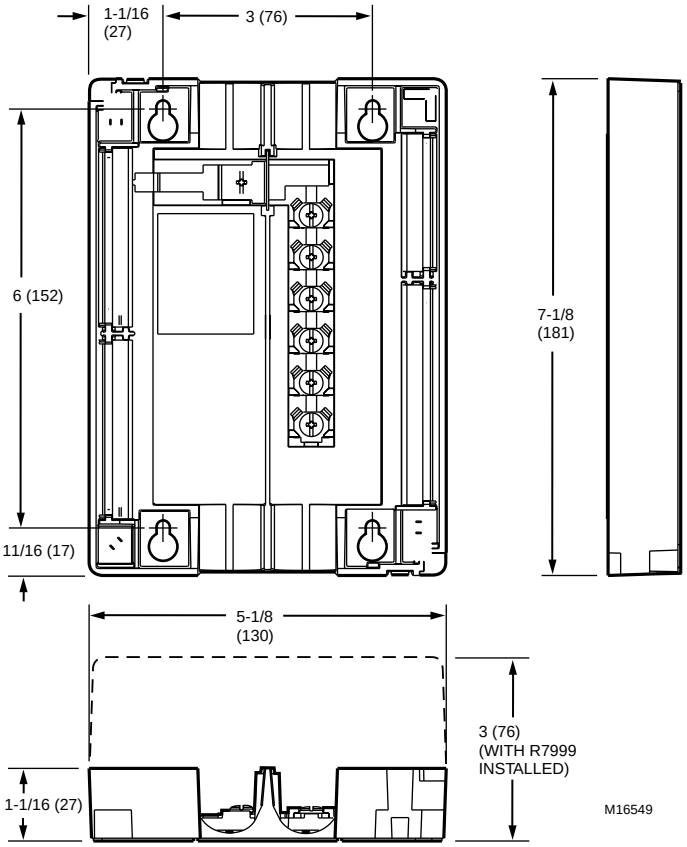

Fig. 1. Approximate dimensions of Q7999A Fuel Air Ratio Controller Wiring Subbase in in. (mm).

Enclosure: NEMA 1.

Approvals:
Underwriters Laboratories Inc. (UL).
Canadian Standards Association (CSA): Pending.
European Community (CE): Pending.
Factory Mutual (FM): Pending.

ORDERING INFORMATION

When purchasing replacement and modernization products from your TRADELINE® wholesaler or distributor, refer to the TRADELINE® Catalog or price sheets for complete ordering number.

If you have additional questions, need further information, or would like to comment on our products or services, please write or phone:

1. Your local Home and Building Control Sales Office (check white pages of your phone directory).
2. Home and Building Control Customer Logistics
   Honeywell Inc., 1885 Douglas Drive North
   Minneapolis, Minnesota 55422-4386 (612) 951-1000

In Canada—Honeywell Limited/Honeywell Limitée, 155 Gordon Baker Road, North York, Ontario M2H 3N7.
International Sales and Service Offices in all principal cities of the world. Manufacturing in Australia, Canada, Finland, France, Germany, Japan, Mexico, Netherlands, Spain, Taiwan, United Kingdom, U.S.A.

INSTALLATION

When Installing This Product...

1. Read these instructions carefully. Failure to follow them could damage the product or cause a hazardous condition.
2. Check the ratings given in the instructions and on the product to make sure the product is suitable for your application.
3. Installer must be a trained, experienced, Flame Safeguard service technician.
4. Disconnect the power supply before beginning installation to prevent electrical shock and equipment damage. More than one disconnect can be involved.
5. All wiring must comply with applicable local electrical codes, ordinances and regulations.
6. All line voltage wiring must be NEC Class 1 in the U.S.
7. After installation is complete, checkout product operation as provided in these instructions.

⚠ WARNING

Electrical Shock Hazard.
Can cause serious injury or death.
Disconnect power supply before beginning installation to prevent electrical shock and equipment damage. More than one disconnect can be involved.

Follow the equipment manufacturer instructions, if available. Otherwise, proceed as follows.

Mounting

NOTE: For installation dimensions, see Fig. 1.

1. Place the subbase in a location within the ambient temperature rating of the R7999 Controller. Refer to the appropriate R7999 instructions. Be sure to allow adequate clearance for service, installation and access to electrical field connections.
2. Place the subbase on the panel and mark the location of the four mounting holes.
3. Insert the mounting screws, using four number 8 screws (purchased separately), tightened securely.

WIRING

1. Refer to equipment manufacturer wiring information and R7999 specifications for correct subbase wiring.
2. Provide overload protection and disconnect means as required. Disconnect the power supply from the main disconnect before beginning installation to prevent electrical shock and equipment damage. More than one disconnect can be involved.
3. All wiring must comply with appropriate electrical codes, ordinances and regulations. In the U.S. use NEC Class (Line Voltage) wiring.
4. Recommended grounding practices:
   a. Each R7999 Controller will have an earth ground terminal that must be grounded to the metal control panel with wire as short as practical. Each ground wire must be capable of carrying a fault current equal to the rating of the protective fuse; a number 14 copper conductor is adequate.
   b. The earth ground provides a connection between the subbase and the control panel or the equipment. The earth ground wire must be capable of conducting a current to blow the fuse or breaker in event of an internal short circuit. The R7999 Controller needs a low impedance ground connection to the equipment frame which, in turn, needs a low impedance connection to earth ground. Connections must be made with minimum length conductors that have maximum surface area. Wide straps or brackets are preferred rather than leadwires. Be careful to ensure that mechanically tightened joints along the ground path, such as pipe or conduit threads or surfaces held together with fasteners, are free of nonconductive coatings and have corrosion-protected mating surfaces.
5. Make sure that loads do not exceed terminal ratings; refer to the labels on the R7999 Controller, or ratings in the R7999 Specifications.
6. Check the power supply circuit. The voltage and frequency tolerance must match those of the R7999 Controller. Do not connect the R7999 Controller/Q7999 Subbase to a power supply circuit that is subject to line voltage variations, such as would occur with on-off switching of heavy loads. A separate power supply may be required for the R7999. Add the required disconnect means and overload protection.
7. Check all wiring circuits and complete a static checkout according to the R7999 Controller specifications before installing the R7999 Controller on the subbase.
8. Install the R7999 Controller on the subbase.
9. Restore power to the panel.

IMPORTANT

Make sure no subbase wiring is projecting beyond the terminal blocks. This could interfere with proper mounting of the R7999 Controller. Tuck wiring in against the back of the subbase so that it does not interfere with the terminals or contacts of the R7999 or Q7999.

CHECKOUT

After installation, perform a complete checkout of the system. Follow information supplied by equipment manufacturer and instructions furnished with the R7999 Controller.

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65-0240 G.R. 1-00

Printed in U.S.A. on recycled paper containing at least 10% post-consumer paper fibers.

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