



Honeywell 69-1551 Modulating Automatic Round Damper Instruction Manual

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Modulating Automatic Round Damper (MARD) INSTALLATION INSTRUCTIONS

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APPLICATION

The Modulating Automatic Round Damper is a round damper with a 24-Vac, floating-control type modulating motor for bypass and zone damper control. It is constructed of 22-gauge galvanized steel and has male (crimped) and female (uncrimped) ends to connect to any rigid or flexible round duct. It is available in 6, 8, 10, 12, 14, 16, and 18-inch diameter sizes. MARD dampers are 2" longer than the diameter. The motor timing is approximately 90 to 95 seconds from open to closed.

The MARD is used for bypass control when connected to the Static Pressure Switch (SPC). Although it can be used on any bypass application, it is recommended for systems larger than 2000 cfm. The MARD can also be used as a zone control damper connected to a zone control panel.

INSTALLATION

Before Installing this Product...

1. Read all instructions before installing this product. Failure to follow the instructions can 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 service technician.
4. Install the product in an area that is easily accessible for checkout and service.
5. After completing the installation, use these instructions to check out the product operation.

Selecting Damper Size

1. To size the bypass damper, subtract the smallest zone cfm from the total system cfm. The remainder is the amount of air that needs to be bypassed.
2. Calculate the bypass damper size using this cfm and a friction loss of .25 in. on a duct calculator or see Table 1.
3. If used as a zone damper, size it the same diameter as the duct.

Table 1. MARD Size.

MARD Diameter	Bypass cfm a
6	200
8	400
10	750
12	1200
14	1800
16	2400
18	3200

a Use this table only to size bypass dampers; for zone damper sizing, use a duct calculator.

Selecting Damper Location

The damper can be installed horizontally or vertically.

Orient the damper so the motor is located on the side or top of the damper, not on the bottom of the damper.

Mounting the Damper

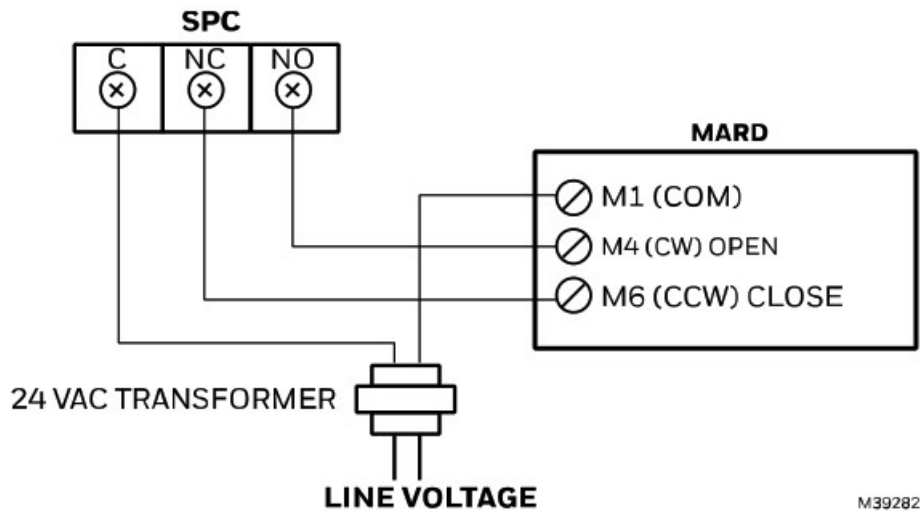
1. Install a duct collar into the duct or plenum upstream of any zone dampers. Placing it as far as practical from the air handler is preferable.
2. Slide the damper onto the duct collar.
3. Secure with sheet metal screws (not provided).
4. Run the duct from the other end of the damper to the return duct.



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WIRING

Multiple dampers can be connected in parallel. See Figure 1 – Figure 3. See the SPC literature for additional connection information.



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Figure 1. Wiring SPC to control MARD damper in bypass applications

Settings/Adjustment

See the SPC literature for configuration instructions.

CHECKOUT

To check out the MARD:

1. With 24 Vac applied to the M1 (common) and M4 (open) terminals, observe that the motor powers the MARD to the open position.
2. With 24 Vac applied to the M1 (common) and M6 (close) terminals, observe that the motor powers the MARD to the closed position.

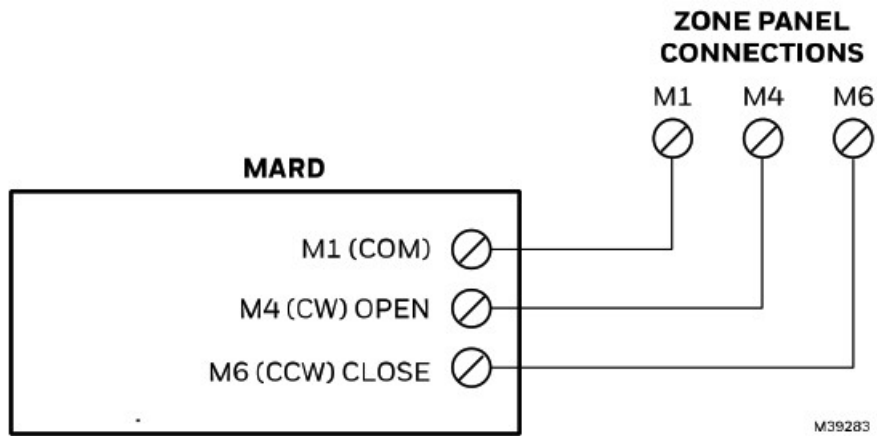


Figure 2. Wiring a MARD to a Conventional Zone Panel

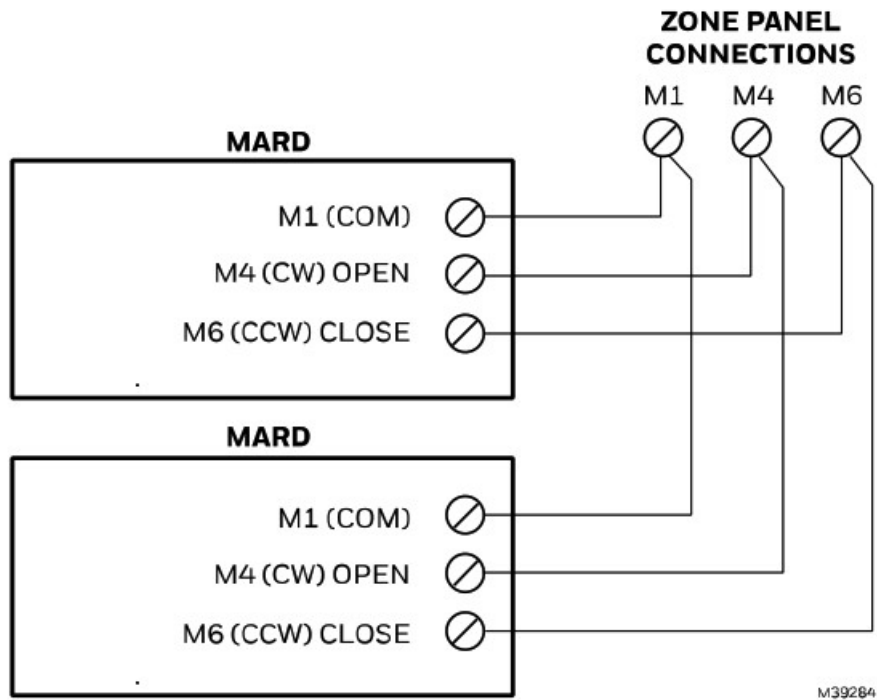


Figure 3. Wiring two MARDs in tandem to a zone panel.

MARD dampers include an LMB24-3-T FLU actuator. Prior to March 2023, the MARD dampers included an ML6161B2024 actuator. Additional information on these dampers can be found at <https://customer.resideo.com/resources/techlit/TechLitDocuments/33-00000s/33-00647.pdf>





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69-1551-04 M.S. Rev. 03-23 | Printed in the United States

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Documents / Resources

The thumbnail shows the front cover of the instruction manual. It features the Honeywell Home logo at the top left, followed by the product name 'Modulating Automatic Round Damper (MARD)'. Below this, there is a section titled 'INSTALLATION INSTRUCTIONS' and a list of steps. A barcode is visible at the bottom right of the cover.	<p>Honeywell 69-1551 Modulating Automatic Round Damper [pdf] Instruction Manual 69-1551, 69-1551 Modulating Automatic Round Damper, Modulating Automatic Round Damper, Automatic Round Damper, Round Damper</p>
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References

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