

MX1 Reversible AC Motor Controller



Supplementary Wiring Examples

DANGER Electrocution Hazard!

Ensure all power is disconnected before servicing or wiring. Install all electrical equipment and wiring in accordance with national and local electric codes. For use in dry locations only (0-80% RH non-condensing.)

Read Instruction Manual for additional Warnings and Cuations





"Working" limit switches will turn off the MX1's motor relays when <u>opened</u>. "Safety" limit switches will open the motor's neutral conductor in the event a working switch fails or a relay contact fails closed.



Simple Automation with Wall Thermostat

MX1 motor controllers can be automated to open a vent when the temperature rises above a setpoint with a standard, commonly available wall-mount thermostat. All that is required is the MX1 with the wall power supply and a common wall thermostat equipped with a cooling mode. If limit switches are not built into the vent motor, external limit switches may be wired to the MX1.

In the configuration below, the close output terminal will be active unless the close limit switch has been opened. If the thermostat is activated by a high temperature, the close terminal will be deactivated and the open terminal will turn on until the open limit switch is reached. When the thermostat is cooled the controller will close again.



MX1 Motor Controller :: Typical Connection to Wall Thermostat





24-Hour Timer Control

Connection to Intermatic Timer:

- Install the mounting flanges to the rear of the MX controller with the included hardware and a #2 Philips screw driver. 1.
- 2. Using a step-drill, bore holes in the bottom of the enclosure as required for electrical connections. The MX controller comes with a wall-plug
- DC power supply, or can be hard-wired to a 24vdc power supply. Connect the line voltage supply from a branch protected circuit. Connect the motor leads to the motor output terminals. 3.
- 4. 5. If desired, install limit switches to turn off the MX power relays when the motor has reached an open or close limit position. An open limit switch will prevent operation in manual or automatic mode. If limit switches are not used, then a jumper wire must be installed across each limit switch terminal pair. If MX motor controller is to be automated by a timer, wire the input signal terminals as shown in the diagram below.
- 6.

