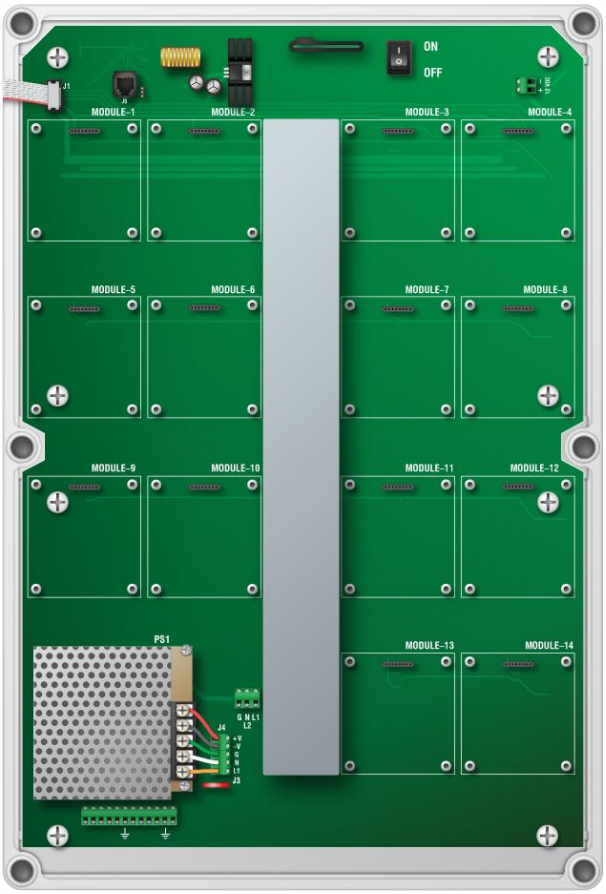
AutoFlex CONNECT

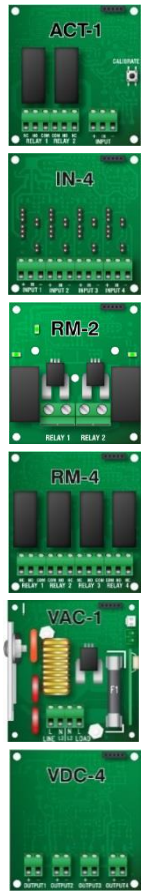
Quick installation

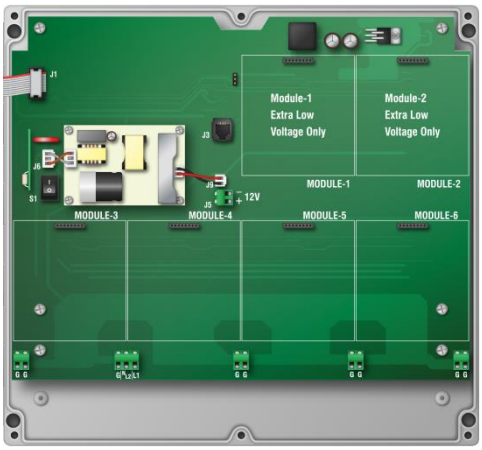
USER MANUAL

Phason electronic control systems www.phason.ca

Layout and ratings







Actuator Module (ACT-1)

Each Actuator Module has one open and one close relay.
There is a connection for potentiometer feedback.

- 15 A at 120/230 VAC, general-purpose (resistive)
- 1/2 HP at 120 VAC, 1 HP at 230 VAC

Relay Module (RM-2)

Each Current Sensing Relay Module has two general-purpose relays.

- 20 A at 120/230 VAC, general-purpose (resistive)
- 1 HP at 120 VAC, 2 HP at 230 VAC

Relay Module (RM-4)

Each Relay Module has four general-purpose relays.

- 15 A at 120/230 VAC, general-purpose (resistive)
- 1/2 HP at 120 VAC, 1 HP at 230 VAC

Incoming power

- 85 to 264 VAC, 50/60 Hz

Alarm relay

The alarm relay connection is on the inside of the cover.

- 0.4 A at 125 VAC; 2 A at 30 VDC, resistive load
- 0.2 A at 125 VAC; 1 A at 30 VDC, inductive load

Variable DC Module (VDC-4)

Each Variable DC Module has four 0 to 10 V DC outputs.

- 0 to 10 VDC, 2K Ω load

Input Module (IN-4)

Each Input Module has connections for four sensors.

Variable AC Module (VAC-1)

Each Variable AC Module has one variable output, one temperature probe connector for heat mat control, and a connection for a Single-Phase Slave.

- 7 A at 120/230 VAC, general-purpose (resistive)
- 4.9 FLA at 120/230 VAC, PSC motor
- 1/2 HP at 120 VAC, 1 HP at 230 VAC
- 800 W @ 120 VAC, 1600 W @ 230 VAC

NOTE

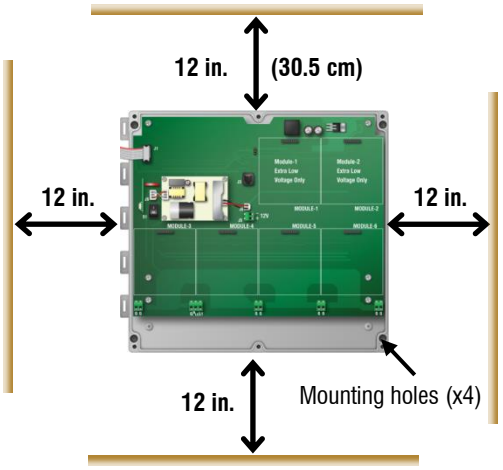
- You can connect more than one piece of equipment to a variable stage or relay as long as they are the same type (for example, two fans) and the total current draw and horsepower does not exceed the limit.
- The maximum wire gauge for all terminals is 12 AWG, solid or stranded.

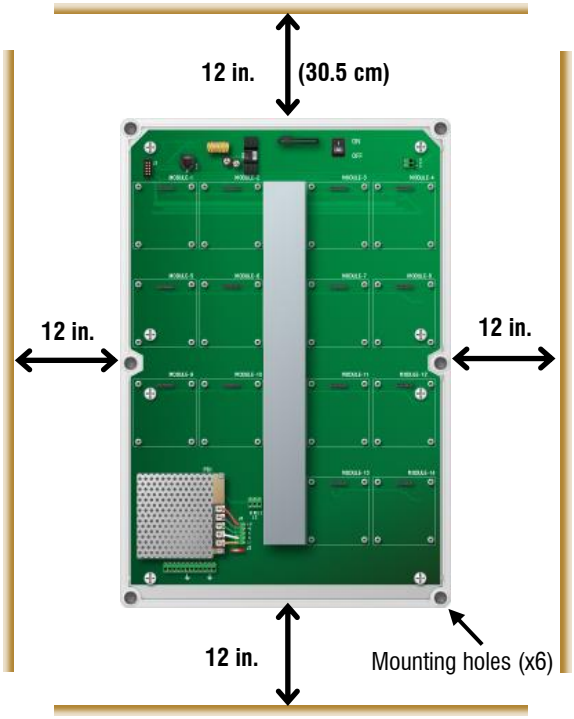
To download the complete user manual, scan this special code with your mobile device using a QR reader. You can also visit

autoflexcontrols.com

Mounting guidelines

- Mount the control on a sheltered, vertical surface.
- Mount the control with the electrical knockouts facing down.
- Mount the control away from sources of moisture and heat.





NOTE

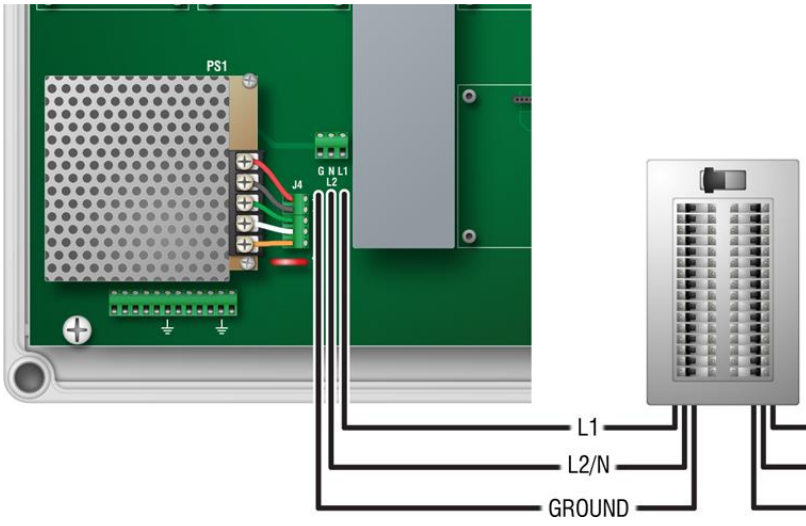
When mounting modules on the bottom board of the larger AutoFlex:

- ◇ Mount high-voltage modules (Relay Modules, Actuator Modules, and Variable AC Modules) next to the trough, and then run the cabling through the trough.
- ◇ Mount low-voltage modules (Input Modules and Variable DC Modules) at the outer positions and run the cabling along the inside of the enclosure.

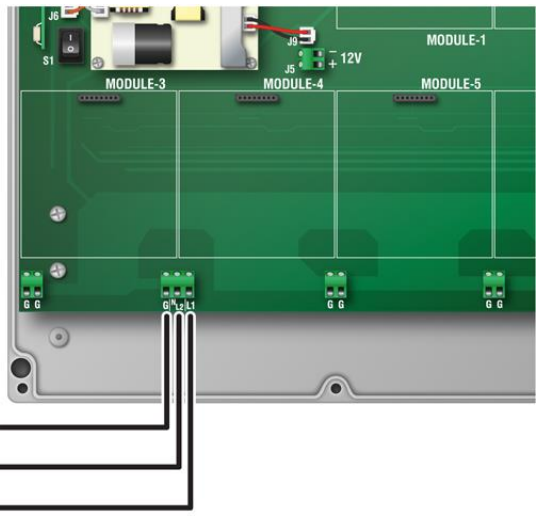
Incoming power

You can connect AutoFlex controls to 85 to 264 VAC, 50 or 60 Hz power.

AutoFlex



AutoFlex Mini



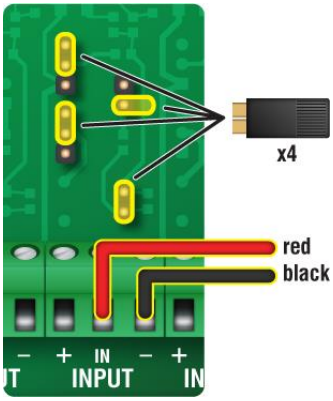
Input Module

For complete installation information and a list of supported sensors, read **Connecting sensors and devices to Input Modules** on page 15 of the **AutoFlex Connect installation guide**.

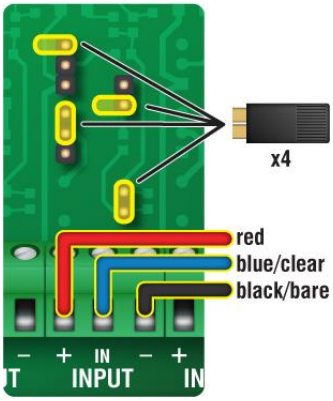
Each Input Module (model **IN-4**) has connections for four analog sensors. Place the shunts in the proper positions for the type of sensor you are connecting. For each sensor, there are four shunts to position.

Phason sensors

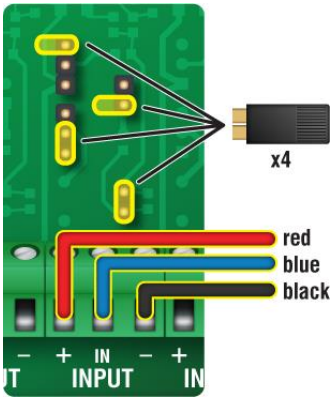
3K temperature probe



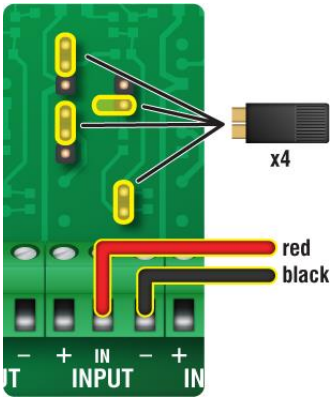
Relative Humidity Sensor



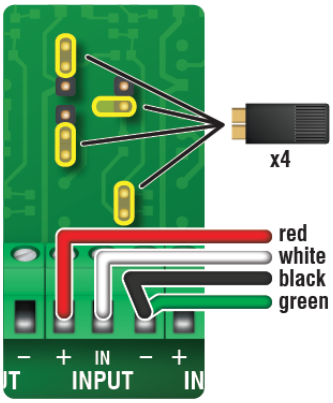
Static Pressure Sensor



Wind Speed Sensor

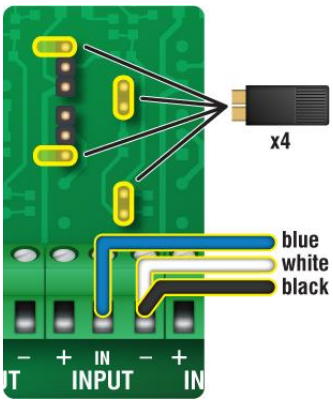


Phason Rain Sensor

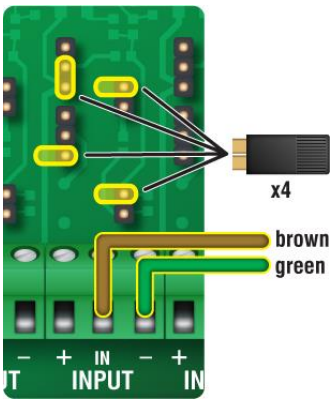


DOL sensors

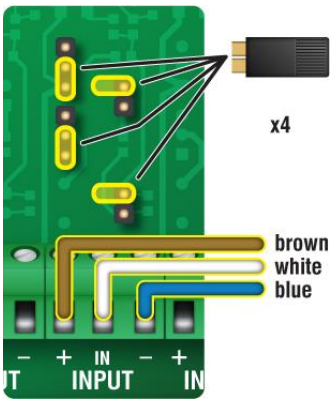
DOL 19 carbon dioxide (CO_2)



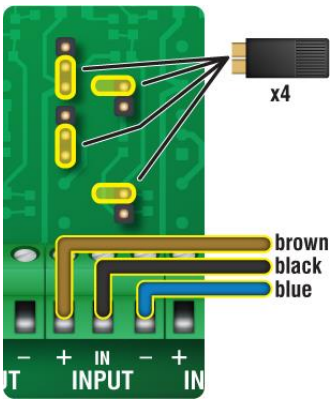
DOL 53 ammonia (NH_3)



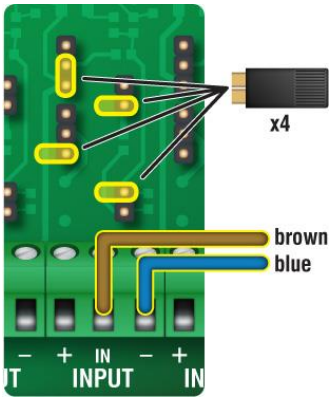
DOL 16 light sensor, 100 lux



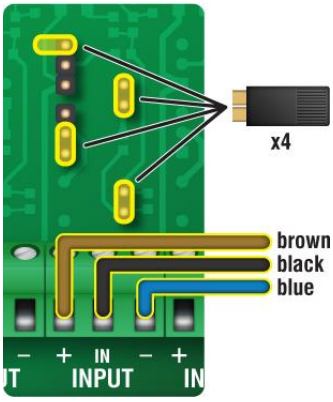
DOL 16 light sensor, 1000 lux



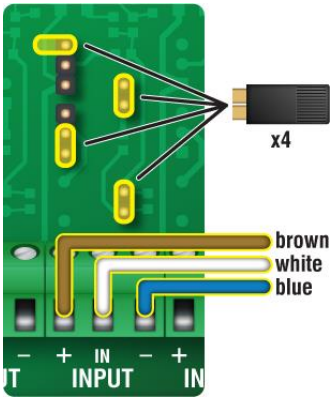
DOL 15 temperature



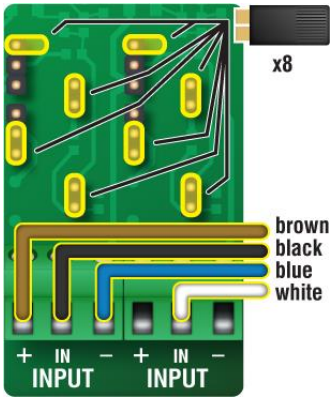
DOL 114 temperature only



DOL 114 humidity only

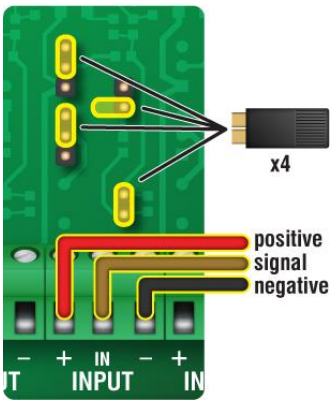


DOL 114 temp. and humidity

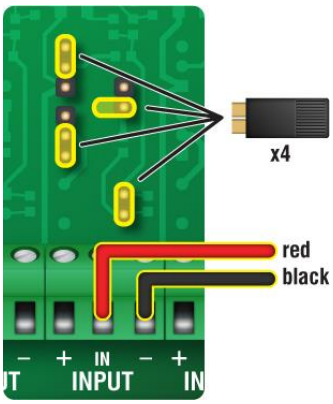


Other devices

Dry contact pulse output



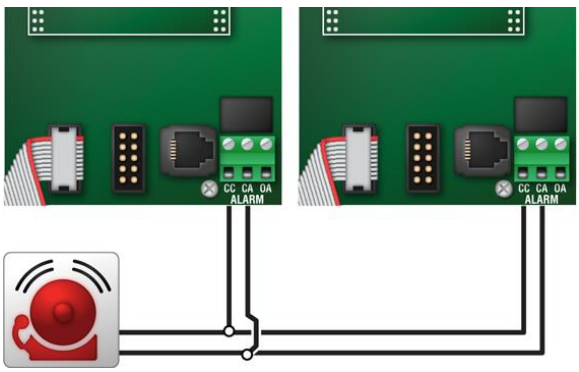
Dry contact digital switch



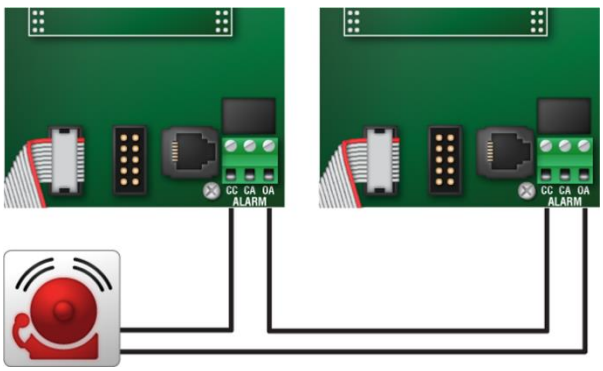
Alarm relay

Each AutoFlex control has an alarm relay connection on the inside of the cover. For complete installation information, read **Connecting an alarm system** on page 22 of the **AutoFlex Connect installation guide**.

Normally open alarm system



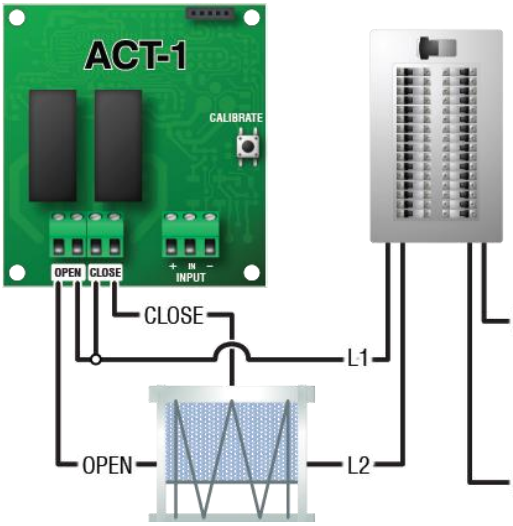
Normally closed alarm system



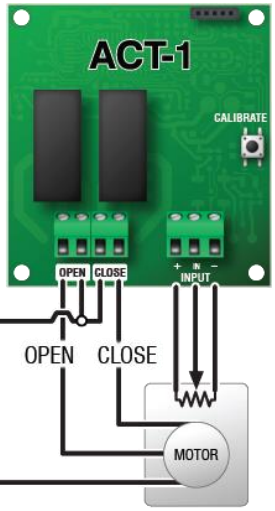
Actuator Module

Each Actuator Module (model **ACT-1**) has one OPEN and one CLOSE relay for connecting actuators or curtain machines. There is a connection for potentiometer feedback. For complete installation information, read **Connecting equipment to Actuator Modules** on page 13 of the **AutoFlex Connect installation guide**.

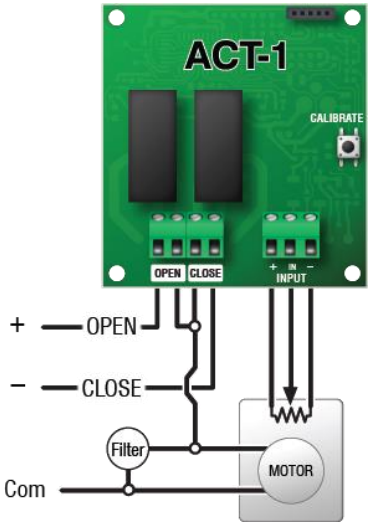
Curtain machines



AC powered actuators



DC powered actuators

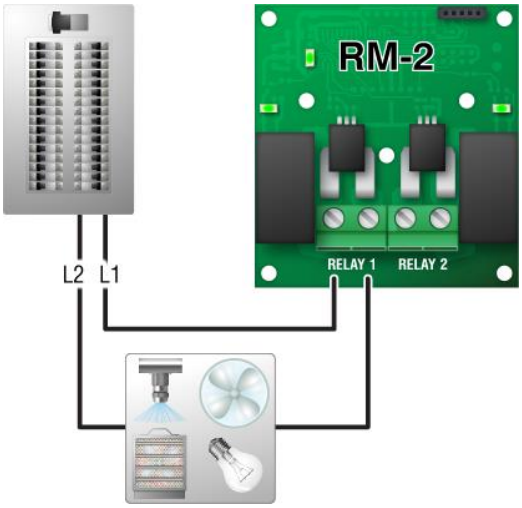


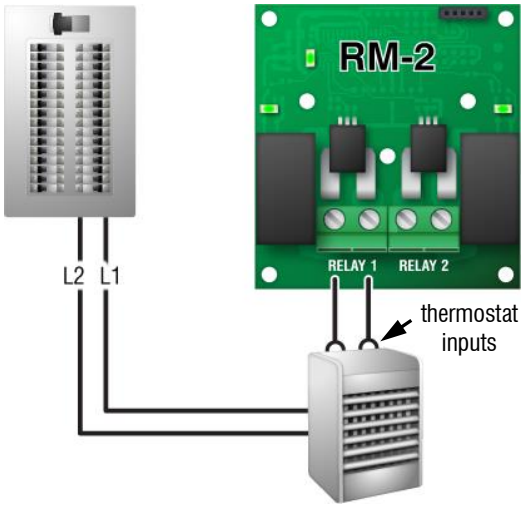
Relay Module

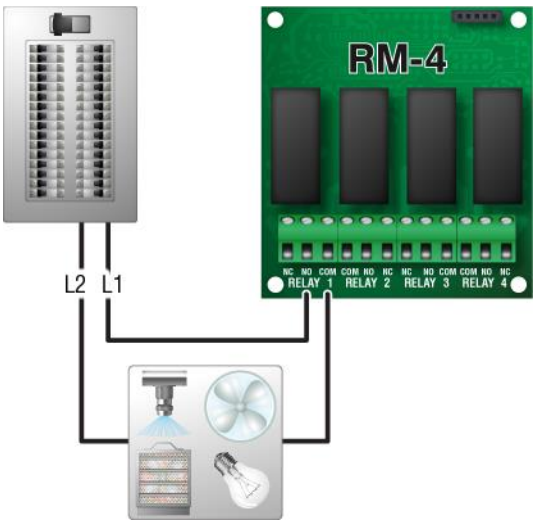
Relay Modules have general-purpose relays for connecting equipment that is either on or off.

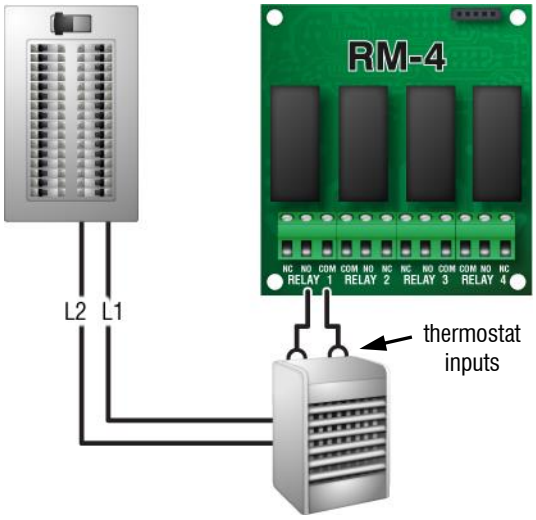
- The **RM-2** Relay Module has two high-capacity relays. Each relay has a current sensor.
- The **RM-4** Relay Module has four relays. The RM-4 does not have current sensors.

For complete installation information, read **Connecting equipment to Relay Modules** on page 18 of the **AutoFlex connect installation guide**.



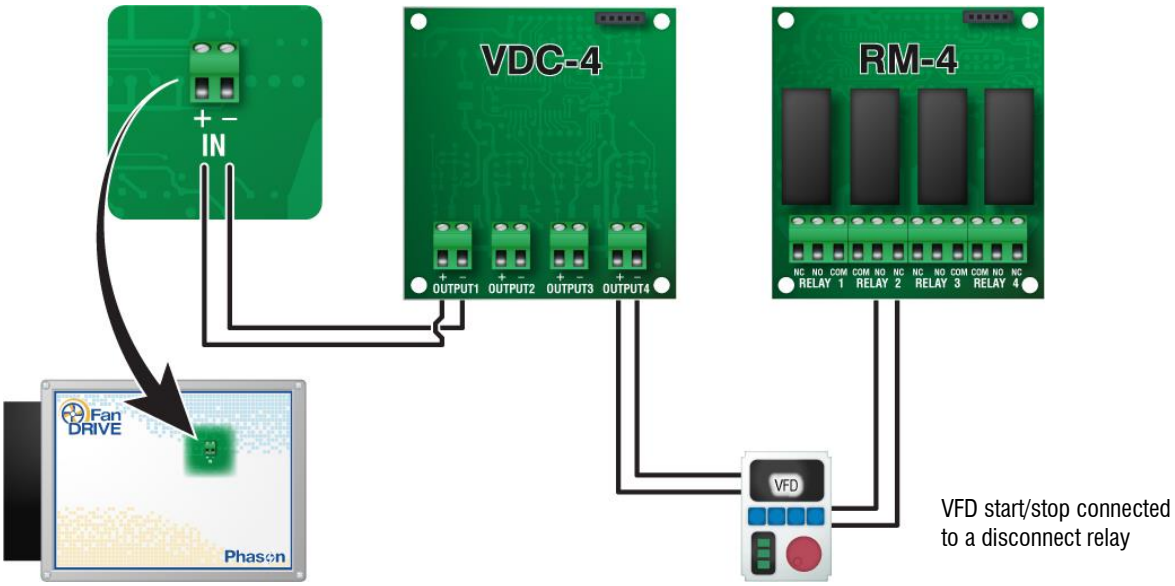






Variable DC Module

Each Variable DC Module (model **VDC-4**) has four 0 to 10 V outputs for controlling variable frequency drives (VFDs) or FanDRIVEs. For complete installation information, read **Connecting equipment to Variable DC Modules** on page 21 of the **AutoFlex Connect installation guide**.



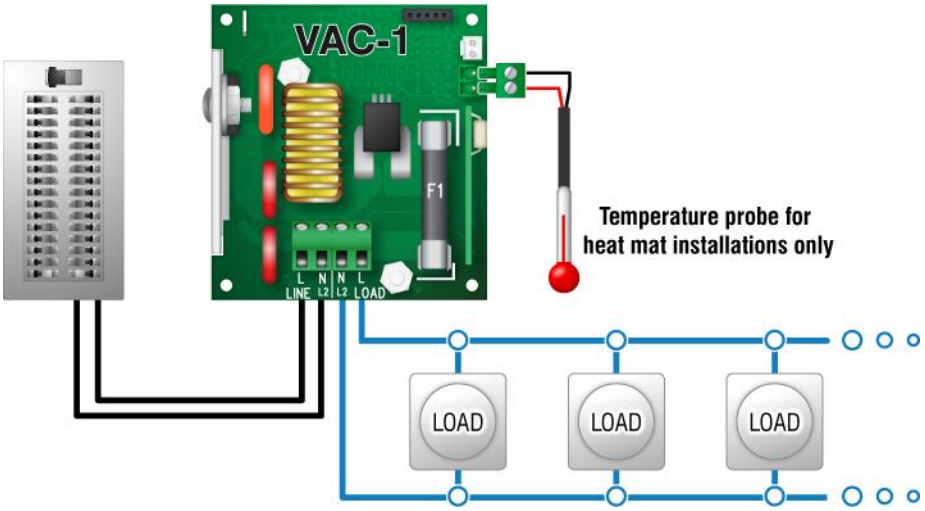
NOTE

The disconnect relay for the variable frequency drive is a relay on an RM-4 module. Configure the relay to follow the variable DC output. For more information, refer to the online help at the AutoFlex Connect display.

Variable AC Module

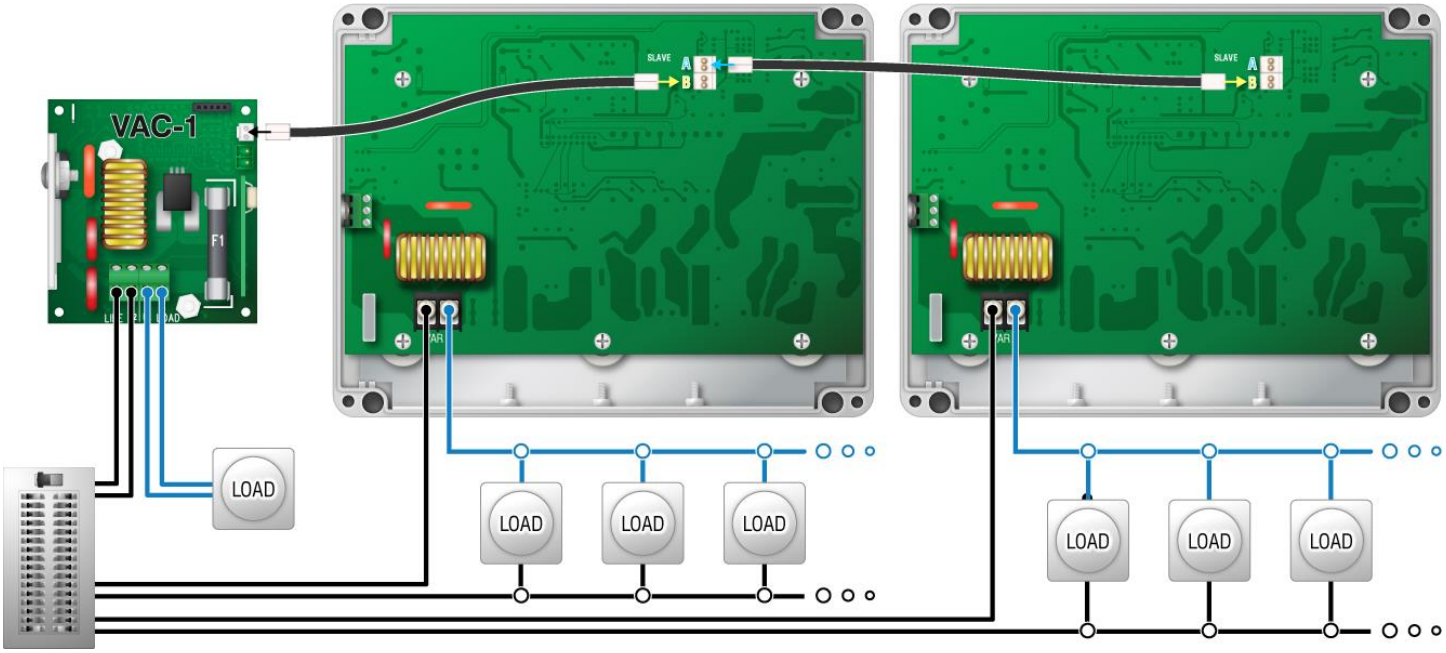
The Variable AC Module has one variable output for controlling fans, heat mats, heat lamps, or similar equipment. A temperature probe connector is included for heat mat control only. For complete installation information, read **Connecting equipment to Variable AC Modules** on page 20.

of the **AutoFlex Connect installation guide**.



Variable AC Module with Single-Phase Slave

The VAC-1 and Single-Phase Slave controls (model PSU-20) **must** be on the same phase.



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