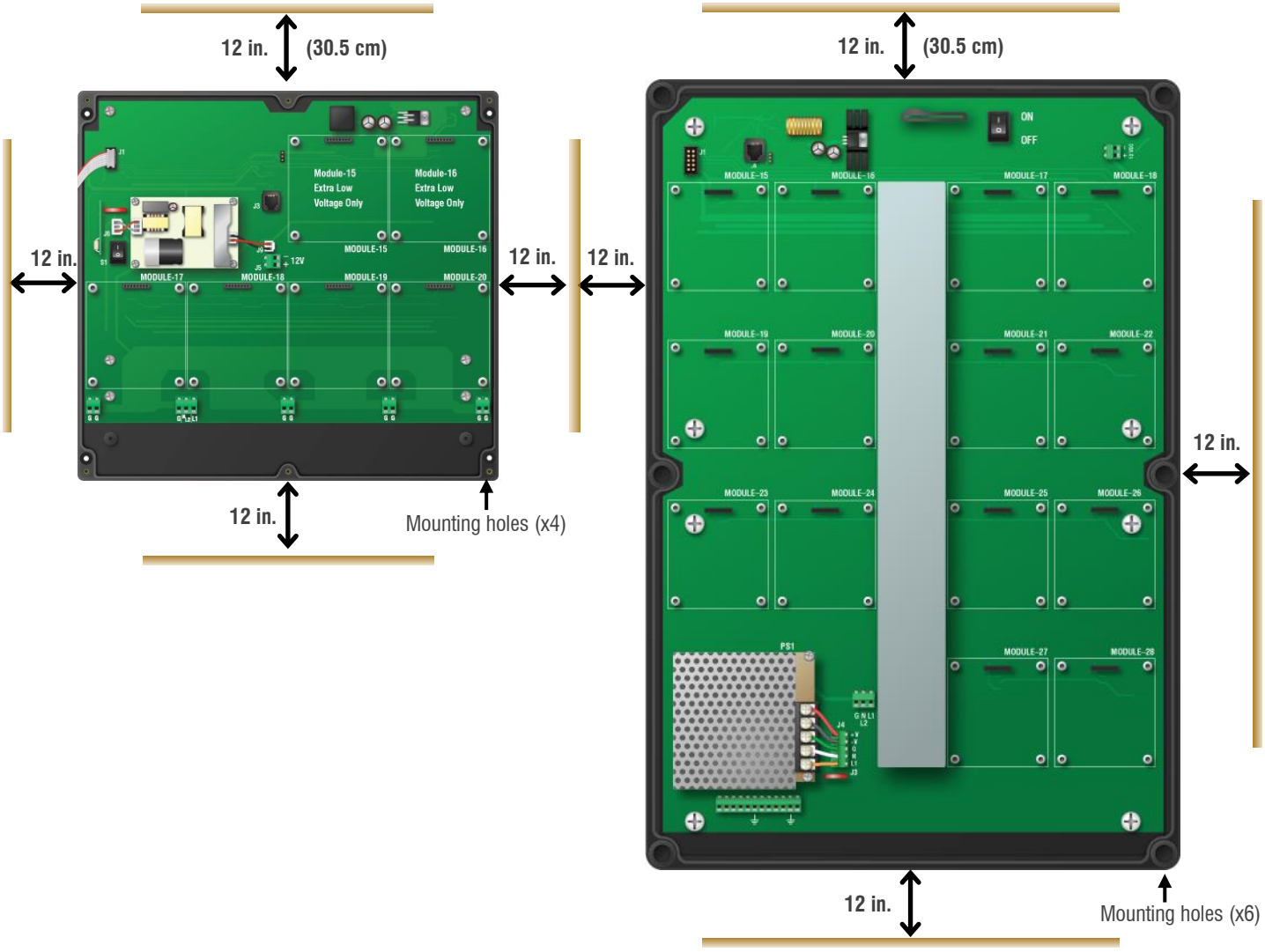
## Mounting guidelines

- 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.



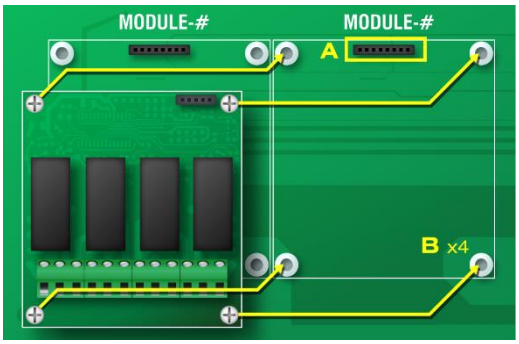

Note

For the larger AutoFlex Connect:

- ◇ Mount high-voltage modules (ACT-1, ACT-1T, ACT-1V, RM-2, RM-2-3PH, RM-4, VAC-1, and LOOP-DRIVE) next to the trough, and then run the cabling through the trough.
- ◇ Mount low-voltage modules (IN-4, VDC-4, VCM-DC, and LOOP-SENSE) at the outer positions and run the cabling along the inside of the enclosure.

## Installing modules

1. Position the module over the connector (A) and then press straight on to the connector.
2. Fasten the module in place using **all four screws** (B) provided.

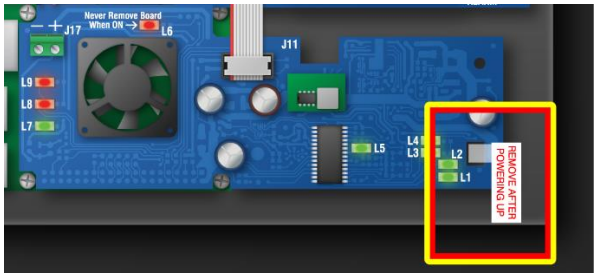



## Electrical ratings

| | |
|---|---|
| **Control power** | 85 to 264 VAC, 50/60 Hz |
| **Alarm relay** | 0.4 A at 125 VAC; 2 A at 30 VDC, resistive load<br>0.2 A at 125 VAC; 1 A at 30 VDC, inductive load |
| **ACT-1**<br>**ACT-1V** | 15 A at 120/230 VAC, general-purpose (resistive)<br>1/2 HP at 120 VAC, 1 HP at 230 VAC<br>0-10 V DC signal feedback **(ACT-1V only)** |
| **ACT-1T**<br>**LOOP-DRIVE**<br>**RM-2** | 20 A at 120/230 VAC, general-purpose (resistive)<br>1 HP at 120 VAC, 2 HP at 230 VAC |
| **RM-2-3PH** | 1 HP at 120 VAC, 2 HP at 230 VAC<br>230 VAC coil, 70 VA inrush, pilot duty |
| **RM-4** | 15 A at 120/230 VAC, general-purpose (resistive)<br>1/2 HP at 120 VAC, 1 HP at 230 VAC |
| **VAC-1** | 7 A at 120/230 VAC, general-purpose (resistive)<br>4.9 FLA at 120/230 VAC, PSC motor<br>1/2 HP at 120 VAC, 1 HP at 230 VAC<br>800 W @ 120 VAC, 1600 W @ 230 VAC |
| **VCM-DC**<br>**VDC-4** | 0 to 10 VDC, 2K Ω load |

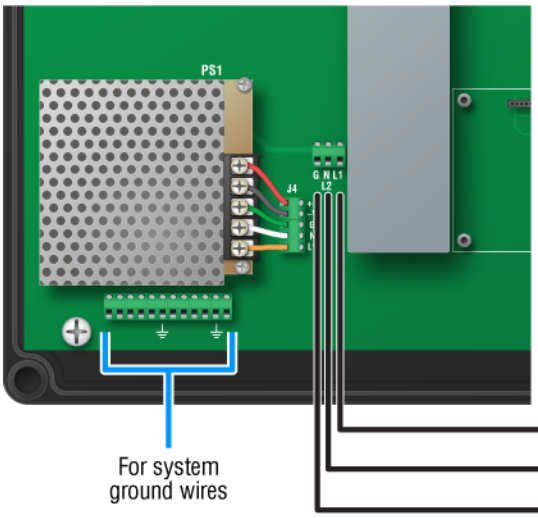

- ◇ You can connect more than one piece of equipment to a variable stage or relay if they are the same type (such as fans) and the total current draw and horsepower does not exceed the limit.
- ◇ The maximum wire gauge for all terminals is 12 AWG, solid or stranded.

- ◇ Immediately after powering up the control, remove the battery tab from the power supply on the back of the display.

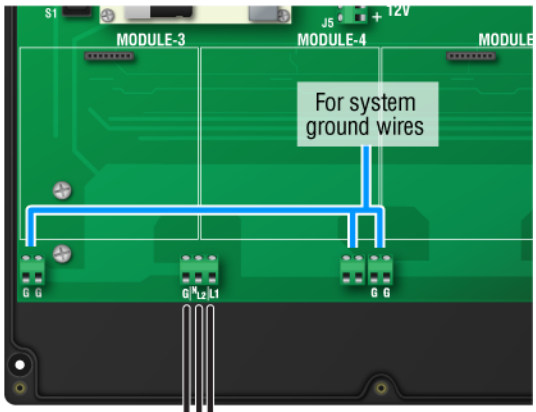


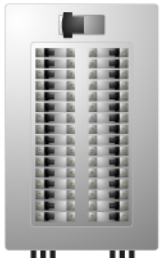
## Incoming power

### AutoFlex




### AutoFlex Mini



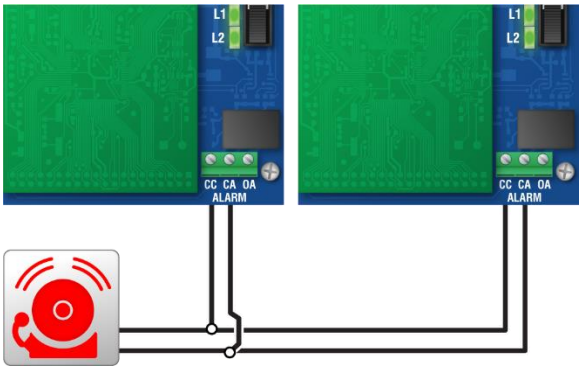
L1
L2/N
GROUND

GROUND
L2/N
L1

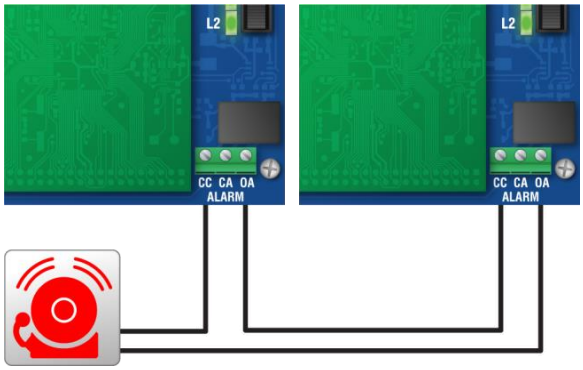
## Alarm relay

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

### Normally open alarm system




### Normally closed alarm system

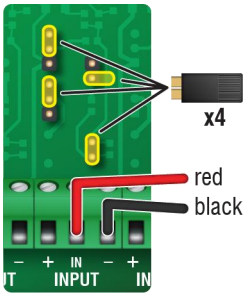


## Input Module

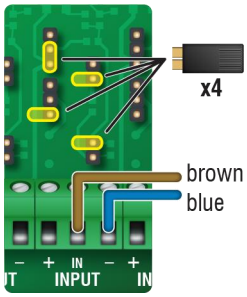
The IN-4 is a Smart Module that has connections for four analog sensors, dry contact switches, or dry contact pulse outputs. For complete installation information and a list of supported sensors, read **Connecting sensors to IN-4 modules** in the **AutoFlex Connect II installation guide**.

Place the shunts in the proper positions for the type of sensor you are connecting. For each sensor, there are four shunts to position.

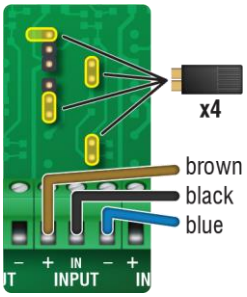
### 3K Series



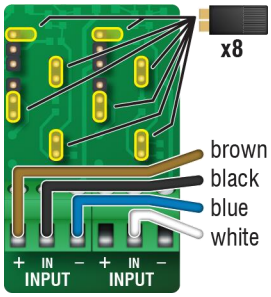

### DOL15



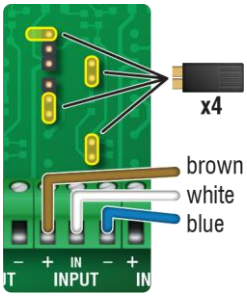

### DOL114 temp. only



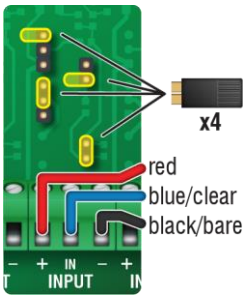

### DOL114 temp. and hum.



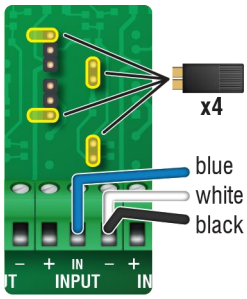

### DOL114 hum. only



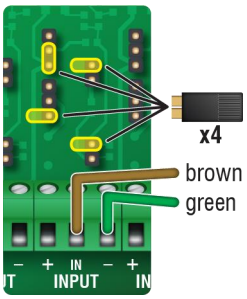

### RHS



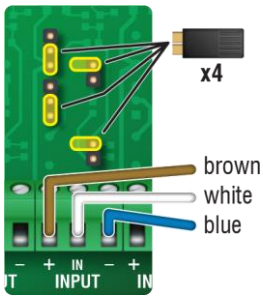

### DOL19



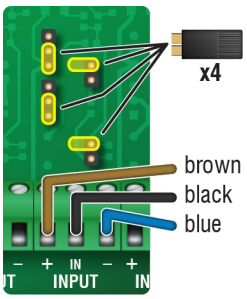

### DOL53



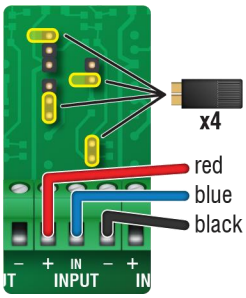

### DOL16, 100 lux



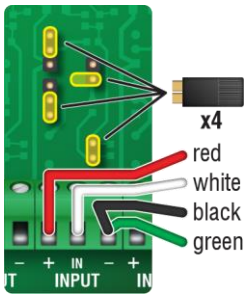

### DOL16, 1000 lux



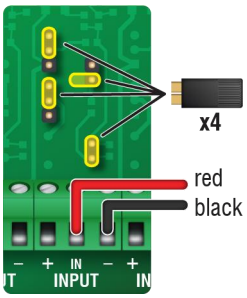

### SPS-2



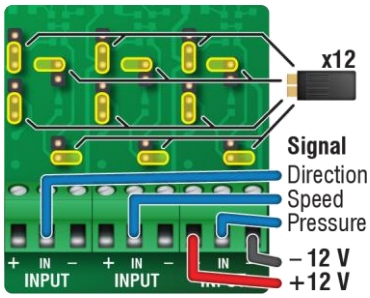

### PRS



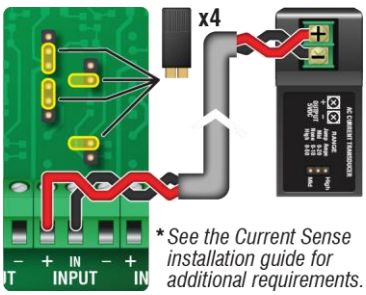

### WINDSPEED-03




### DOL58

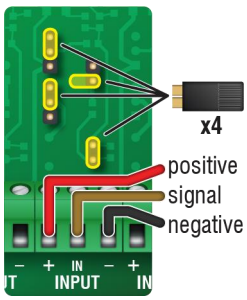



### CURRENTSENSE-2

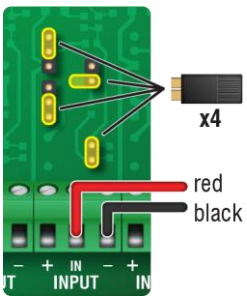



*See the Current Sense installation guide for additional requirements.

### Dry contact pulse output




### Dry contact digital switch



## RM-2, RM-2-3PH, and RM-4 modules

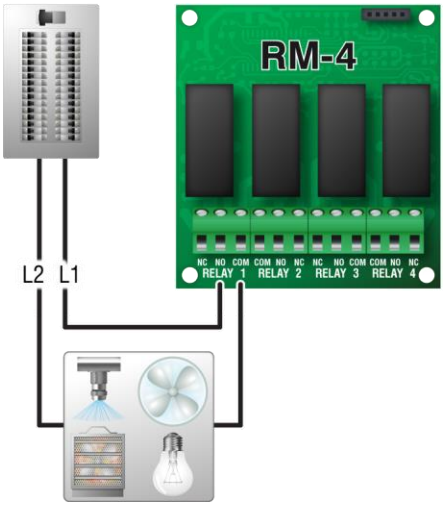
The RM-2, RM-2-3PH, and RM-4 are Smart Modules that precisely control the equipment connected to them.

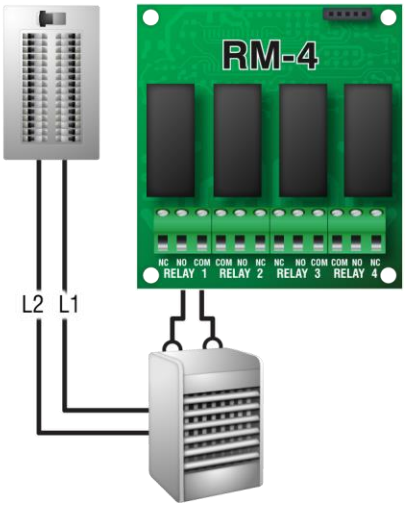
- The **RM-2** has two high-capacity relays. Each relay has an integrated current sensor.
- The **RM-2-3PH** has two high-capacity relays and two pilot relays for controlling three-phase motors and equipment. The relays operate as pairs, with one high-capacity and one pilot relay in each pair. The high-capacity relays each have an integrated current sensor.
- The **RM-4** has four relays. The RM-4 *does not have* current sensors.

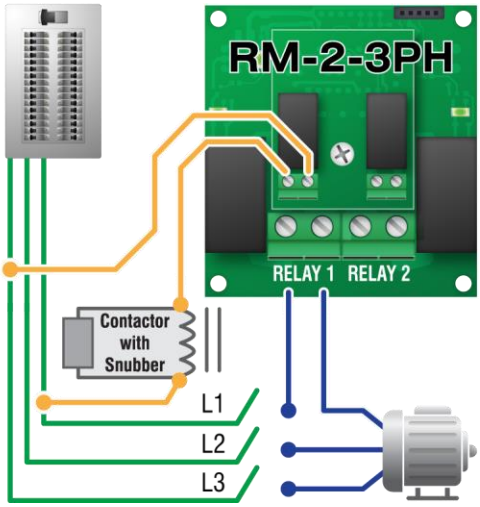
For complete installation information, read **Connecting equipment to RM-2, RM-2-3PH, and RM-4 modules** in the **AutoFlex Connect II installation guide**.

Note

Wiring instructions are the same for the RM-2 and the RM-4 Relay Modules. The following examples use the RM-4.




## ACT-1, ACT-1T, and ACT-1V modules

Actuator Modules are Smart Modules that have one OPEN and one CLOSE relay specifically for actuator and curtain control. The ACT-1 uses potentiometer feedback ACT-1T uses timed feedback, and ACT-1V uses 0-10 V DC-signal feedback.

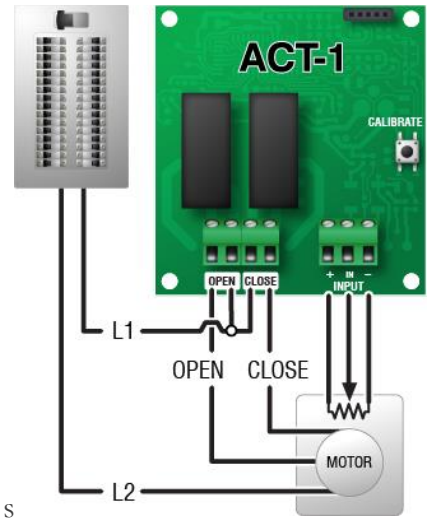
For complete installation information, read **Connecting equipment to ACT-1, ACT-1T, and ACT-1V modules** in the **AutoFlex Connect II installation guide**.

Note

- ◇ Do not run actuator feedback wires in or along the same conduit as AC-power lines.
- ◇ If you are unsure of the potentiometer wiring for your actuator, read **Determining correct actuator feedback wiring** in the **AutoFlex Connect II installation guide**.
- ◇ If you are measuring AC power with a digital multimeter (DMM) and a limit switch opens the circuit, the DMM measures voltage after the relay switch even if the relay is open.

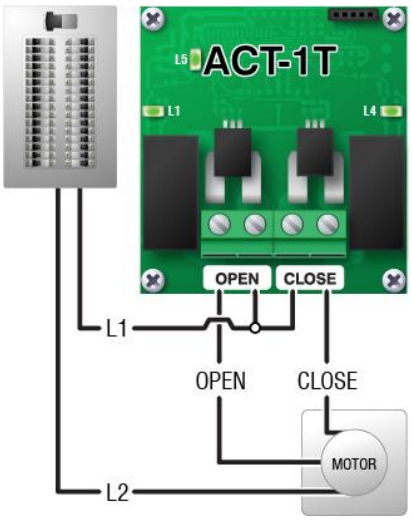
### AC-powered actuators

### Potentiometer feedback

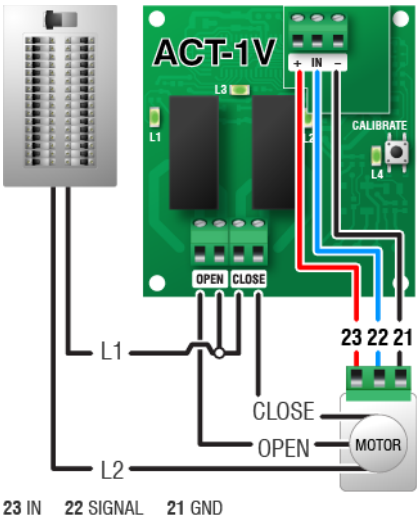



S

### Timed feedback

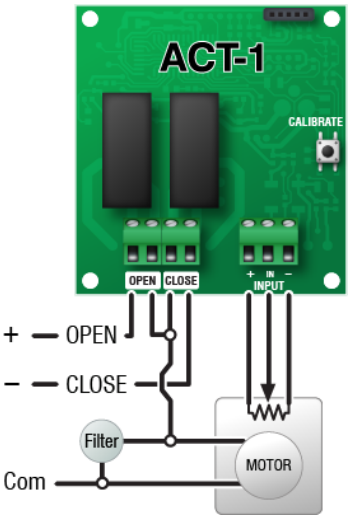



### 0-10 V DC signal feedback

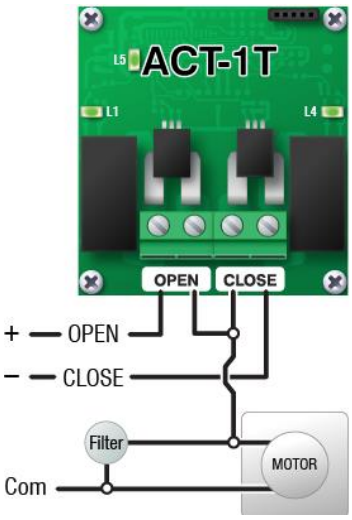



## DC-powered actuators

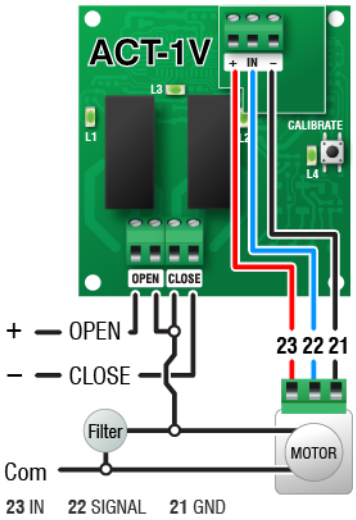
### Potentiometer feedback



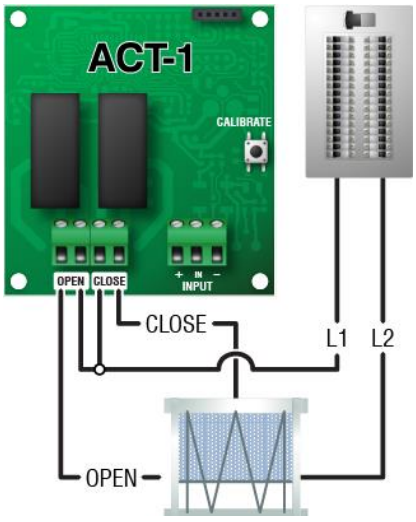

### Timed feedback




### 0-10 V DC signal feedback



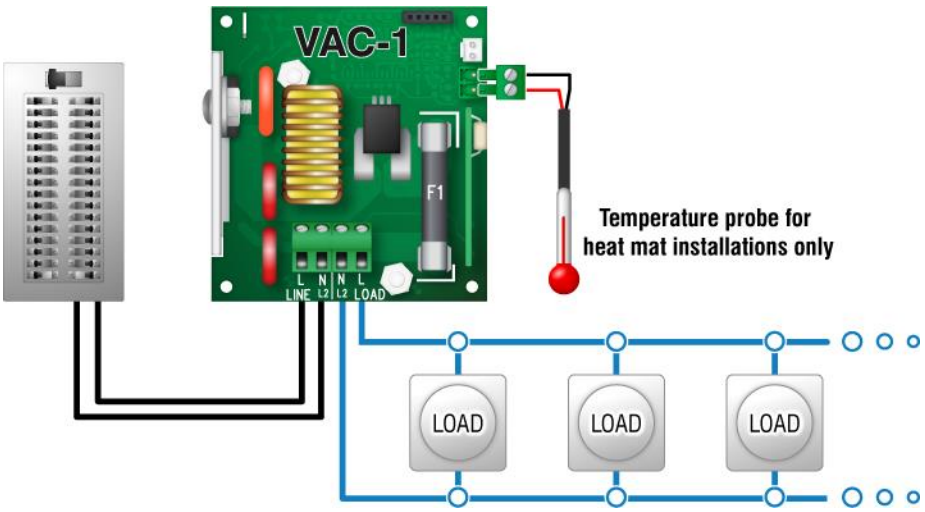

## Curtain machines



## VAC-1 module

The VAC-1 is a single-output Smart Module with a **current sensor** that can control variable-speed fans, heat mats, and lights. A temperature probe connector is included for heat mat control. For complete installation information, read **Connecting equipment to VAC-1 modules** in the **AutoFlex Connect II installation guide**.

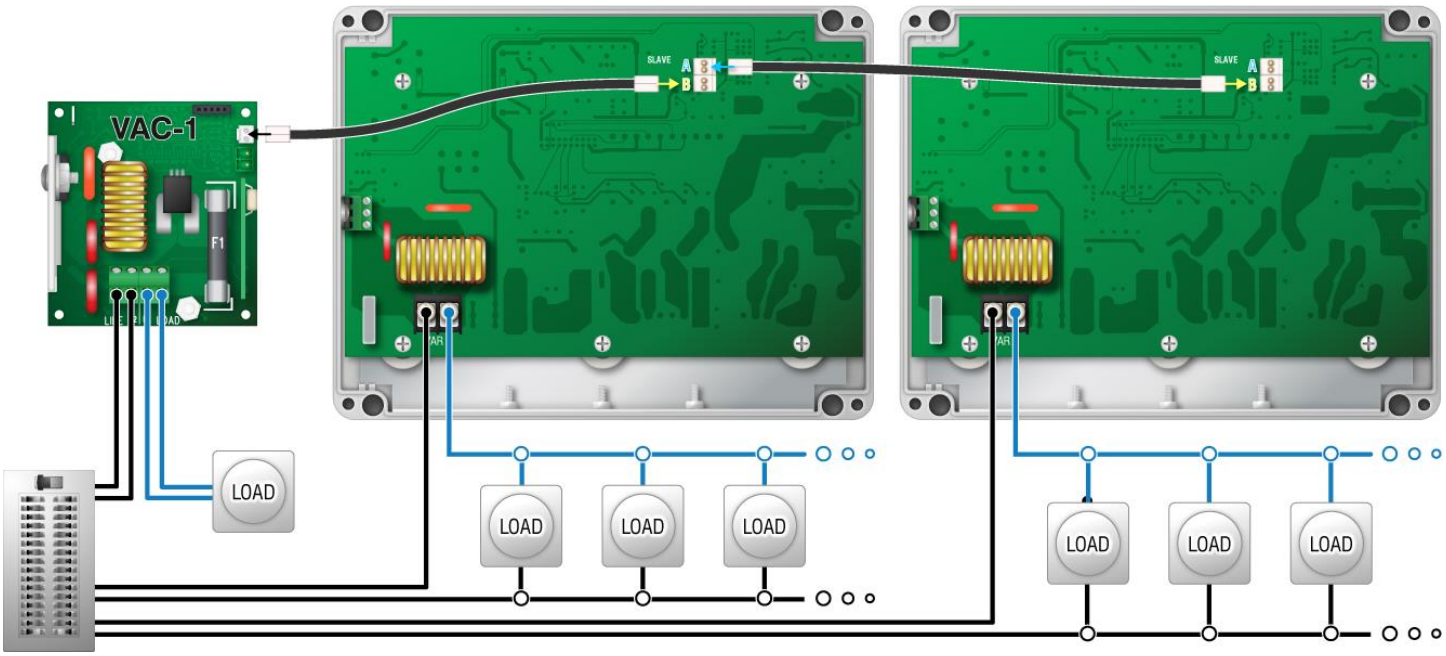
### Heat mats




### VLX-20 Variable Load Expansion Box

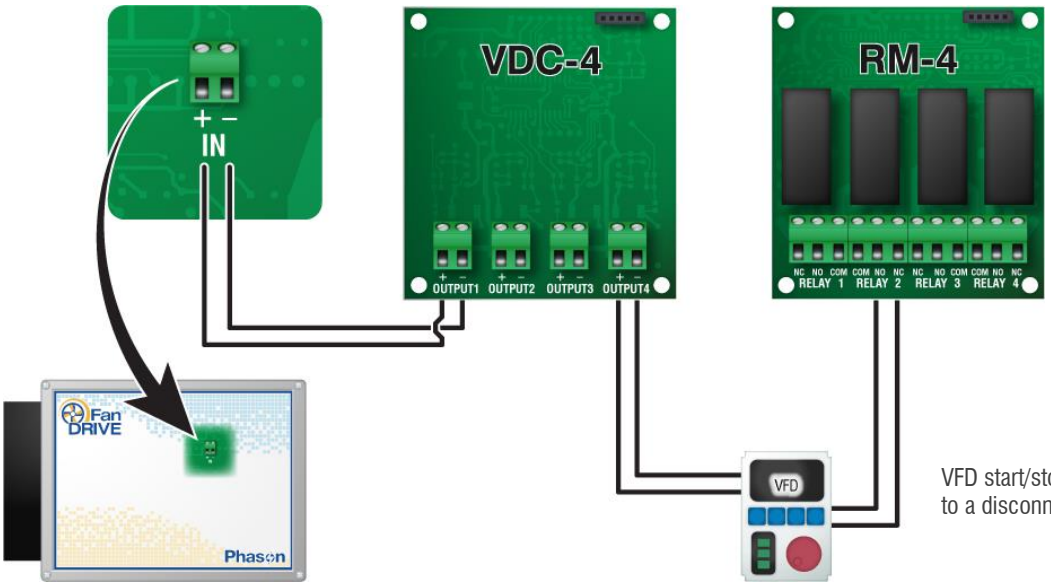
The VLX-20 has a 20 A variable AC stage that allows you to increase the capacity of the VAC-1. The VLX-20 is ideal for controlling loads such as heat mats, heat lamps, and incandescent lights.

The VAC-1 and VLX-20 **must** be on the same phase.



## VDC-4 module

The VDC-4 is a Smart Module that has four outputs for controlling variable frequency drives (VFD), FanDRIVEs, or other equipment requiring a 0 to 10 V DC signal. For complete installation information, read **Connecting equipment to VDC-4 modules** in the **AutoFlex Connect II 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.

## VCM-DC module

The VCM-DC is a Smart Module that monitors and precisely controls airflow using a chimney fan, damper, and measuring fan. For complete information, read **Connecting equipment to VCM-DC modules** in the **AutoFlex Connect II installation guide**.