



ESSENCE ELECTRICAL SPECS & DIAGRAMS

-  **WARNING:** Disconnect power to the installation locations before installing the fan and controller!
-  **WARNING:** Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction. Incorrect assembly can cause electric shock or damage the motor and the controller.

110–125 V  , 50/60 Hz, 1 Φ , 10 A	200–240 V  , 50/60 Hz, 1 Φ , 10 A
---	---

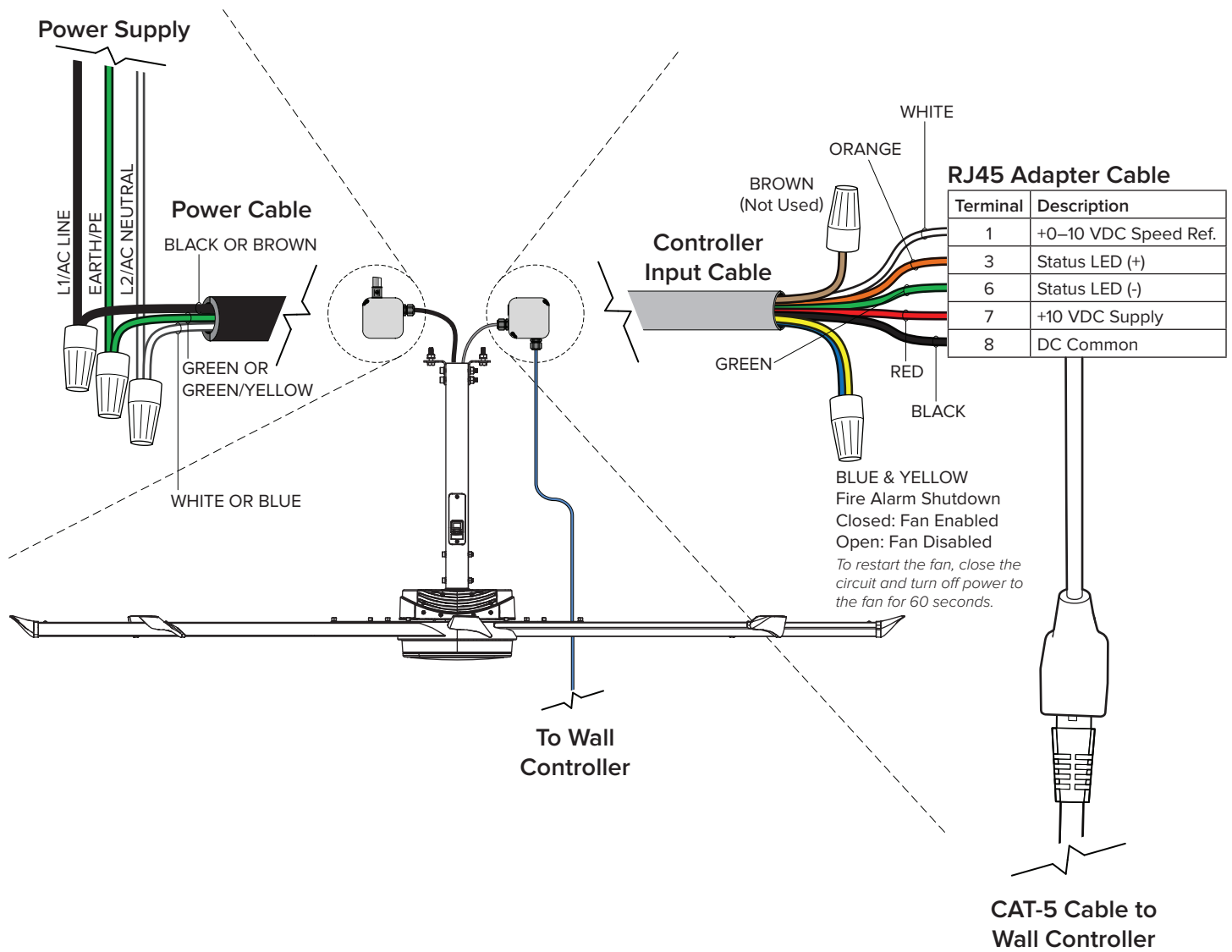
Before beginning fan installation, make sure:

- Power wiring is routed to a junction box at the fan location.
- A second junction box is installed near the input power junction box for low voltage wall controller wiring.
- A CAT-5 cable is available for connecting the wall controller.
- The fan is the correct voltage. The voltage is marked on the label on top of the main fan unit and cannot be changed during installation.
- The wall controller will not be installed outdoors or in a location where it may come into contact with water.

Wire color chart

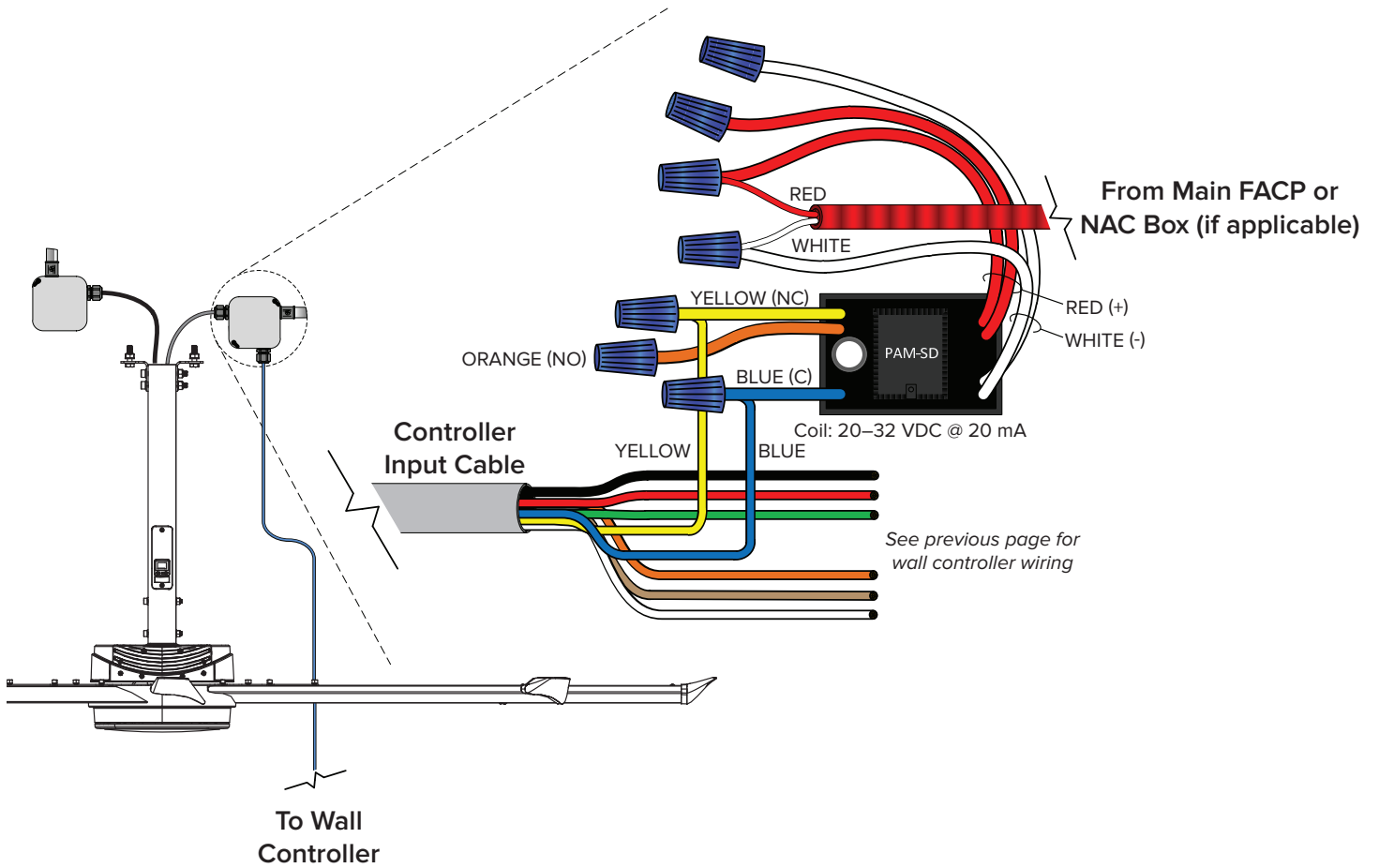
	AC Line (L1) <i>Ligne CA (L1)</i> <i>Línea CA (L1)</i>	AC Line/Neutral (L2/N) <i>Ligne CA/Neutre (L2/N)</i> <i>Línea CA/Neutro (L2/N)</i>	Earth/PE <i>Terre/PE</i> <i>Tierra/PE</i>
North America 100–120 V System <i>Amérique du Nord système de 100–120 V</i> <i>América del Norte sistema de 100–120 V</i>	Black <i>Noir</i> <i>Negro</i>	White <i>Blanc</i> <i>Blanco</i>	Green or Bare Copper <i>Vert ou cuivre nu</i> <i>Verde o cobre desnudo</i>
North America 208–240 V System <i>Amérique du Nord système de 208–240 V</i> <i>América del Norte sistema de 208–240 V</i>	Black, Red, or Blue <i>Noir, Rouge, ou Bleu</i> <i>Negro, Rojo, o Azul</i>	Red, Blue, or Black <i>Rouge, Bleu, ou Noir</i> <i>Rojo, Azul, o Negro</i>	
Australia <i>Australie</i> <i>Australia</i>	Brown or Red <i>Marron ou Rouge</i> <i>Marrón o Rojo</i>	Black or Light Blue <i>Noir ou Bleu</i> <i>Negro o Celeste</i>	Green with Yellow Tracer <i>Vert avec un traceur jaune</i> <i>Verde con línea amarilla</i>
All Other Regions <i>Toutes les autres régions</i> <i>Resto de las regiones</i>	Brown <i>Marron</i> <i>Marrón</i>	Blue <i>Bleu</i> <i>Azul</i>	

Fan and wall controller wiring



Fire relay wiring (optional)

In the configuration shown, fan operation is disabled when power is applied to the fire relay. To restart the fan and clear the fire fault, close the circuit and turn off power to the fan for 60 seconds.



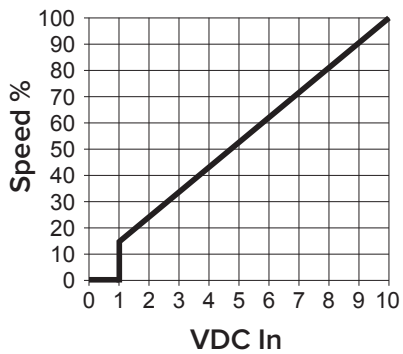
0–10 VDC automation wiring (optional)

0–1 VDC = Fan off

1–10 VDC = Fan run and speed reference

Fan speed % per VDC applied

VDC In	% Speed
0–1	Fan off
1–10	15–100%



Controller input cable

1	White	+0–10 VDC Speed Ref.
2	Brown	Not Used
3	Orange	Status LED (+)
4	Yellow	Fire Alarm Shutdown Closed: Fan Enabled Open: Fan Disabled <i>To restart the fan, close the circuit and turn off power to the fan for 60 seconds.</i>
5	Blue	Fire Alarm Shutdown Closed: Fan Enabled Open: Fan Disabled <i>To restart the fan, close the circuit and turn off power to the fan for 60 seconds.</i>
6	Green	Status LED (-)
7	Red	+10 VDC Supply
8	Black	DC Common

