

Q-PAC FAN WIRING GUIDE

FUSED DISCONNECT V3.2.0

Use this wiring guide to connect the **Q-PAC Fan** to the Schneider VisiPacT disconnect. For support connecting to a Q-PAC Control Panel or Disconnect, refer to the corresponding Q-PAC Wiring Guide or contact Q-PAC Support for assistance at 904-863-5300 or support@q-pac.com.

For more information on Modbus communication points and fan features, refer to the Q-PAC User Manual. Basic descriptions of the fan terminals are provided below:

	CN2		NOTES	REQUIRED
1	AI1+	0-10V signal proportional to the motor speed	2	Yes
2	AI1-	0V reference for AI1+	2	Yes
	CN1			
3	K1A	Normally closed (unpowered) contact of the alarm relay. When the controller receives power, the contact opens to indicate the absence of an alarm. If a fault occurs the contact will close again.	2, 6	No Connection
4	K1C	Common contact of the alarm relay. When a fault is present in the unit, this pin is connected to Alarm relay NC K1A and disconnected from Alarm relay NO K1B.	2, 6	
5	K1B	Normally open (unpowered) contact of the alarm relay. When the controller receives power, this contact closes to indicate the absence of an alarm. If a fault occurs the contact will open again.	2, 6	
6	AO1+	0-10V signal proportional to the calculated airflow	2, 6	
7	AO1-	0V reference for AO1+	2, 6	
	CN4			
8	GND	Ground/Shield/Common	3, 6	
9	-	RS485 negative data terminal	3, 6	
10	+	RS485 positive data terminal	3, 6	
	CN5			
11	GND	Ground/Shield/Common	3, 6	
12	-	RS485 negative data terminal	3, 6	
13	+	RS485 positive data terminal	3, 6	
	CN3			
14	0V	Connection to power supply, neutral for AC or ground DC	2, 6	
15	24V	Connection to supply voltage, 24V AC/DC-500mA	2, 6	
	FUSED DISCONNECT SWITCH / INPUT POWER			Yes
L1/L2/L3		3 Phase 208V or 480V input voltage, per Fan Controller Nameplate		
	EARTH GROUND			Yes

- NOTES:**
- Conductor size to be determined by NEC Article 310.15(B), Table 310.16, and Q-PAC Fan MCA per the Fan Controller Nameplate.
 - CN1 Terminals (AI1) must be connected to the BMS or other controller for operation.
 - Min 24 AWG (stranded CU) to CN1, CN2, and CN3 terminals.
 - Min 24 AWG (stranded CU) shielded twisted pair to CN5 and CN6, if connected.
 - All open-ended lines indicate connections to external devices, to be completed by others in the field.
 - CN3 provides power to the Fan Controller Board (microcontroller) and is only required if using the fan alarm relay (K1A-K1C), airflow signal voltage (AO1), and/or Modbus Communication (CN4 and CN5).

