

25500839 Rev A1 0224

PF400 and PF400Q Wiring
Table 1 Lighting Wires

WIRE FUNCTION	COLOR	WIRE GAUGE
Relay 1 (10 A Max)	Black	16 AWG
Relay 2 (10 A Max)	Green	16 AWG
Relay 3 (10 A Max)	White	16 AWG
Relay 4 (10 A Max)	Yellow	16 AWG
Relay 5 (10 A Max)	Gray	16 AWG
Relay 6 (10 A Max)	Orange	16 AWG
Relay 7 (5 A Max)	Violet	16 AWG
Relay 8 (5 A Max)	Red	16 AWG
Relay 9 (5 A Max)	Blue	16 AWG
Relay 10 (5 A Max)	Brown	16 AWG
Relay 11 (5 A Max)	Pink	16 AWG
Relay 12 (5 A Max)	Tan	16 AWG

Table 2 Control Wires

WIRE FUNCTION	COLOR	WIRE GAUGE
Radio (+)	Green	20 AWG
Radio (-)	White/Green	20 AWG
Relay 16 (Low Side 4, 500 mA)	Blue	20 AWG
Relay 15 (Low Side 3, 500 mA)	Brown	20 AWG
Relay 14 (Low Side 2, 500 mA)	White/Blue	20 AWG
Relay 13 (Low Side 1, 500 mA)	White/Brown	20 AWG
Horn (5 A Max)	White	20 AWG
Ignition	Yellow	20 AWG
Park*	Gray	20 AWG
Input 1*	Orange	20 AWG
Input 2*	Violet	20 AWG
Input 3*	White/Red	20 AWG
Input 4*	White/Orange	20 AWG
Horn Ring*	White/Yellow	20 AWG

* Default GND- sense, software programmable to BAT+ sense

Table 3 Speaker Wires

WIRE FUNCTION	COLOR	WIRE GAUGE
Speaker 1 (+)	Blue	18 AWG
Speaker 1 (-)	Brown	18 AWG
Speaker 2 (+)	White/Blue	18 AWG
Speaker 2 (-)	White/Brown	18 AWG
Speaker 3 (+)	Green	18 AWG
Speaker 3 (-)	Orange	18 AWG
Speaker 4 (+)	White/Green	18 AWG
Speaker 4 (-)	White/Orange	18 AWG

Table 4 Power Wires

WIRE FUNCTION	COLOR	WIRE GAUGE
Bat (-)	Black	8 AWG
Siren (+)	Red	8 AWG
Lighting +DC	Red	8 AWG

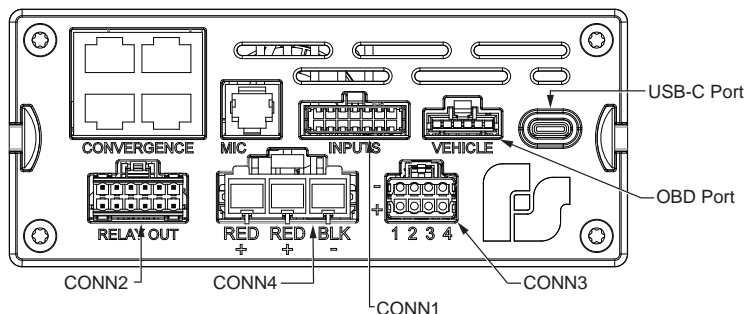
Siren runs on 12/24 V negative ground vehicles.

NOTES:

The PA volume is programmed at the factory to a nominal volume. Its level can be raised or lowered when programming the siren using Federal Signal's Convergence Network Configuration Software.

The four low side outputs should not exceed 500 mA total.

Functions and Connections



Vehicle: Make _____ Model _____ Year _____

FUNCTION	Wire Color	Connector – Pin Number	Connection
Relay 1 (10A)	Black	CONN2 – PIN8	
Relay 2 (10A)	Green	CONN2 – PIN9	
Relay 3 (10A)	White	CONN2 – PIN10	
Relay 4 (10A)	Yellow	CONN2 – PIN11	
Relay 5 (10A)	Gray	CONN2 – PIN7	
Relay 6 (10A)	Orange	CONN2 – PIN12	
Relay 7 (5A)	Violet	CONN2 – PIN3	
Relay 8 (5A)	Red	CONN2 – PIN2	
Relay 9 (5A)	Blue	CONN2 – PIN1	
Relay 10 (5A)	Brown	CONN2 – PIN4	
Relay 11 (5A)	Pink	CONN2 – PIN5	
Relay 12 (5A)	Tan	CONN2 – PIN6	
Radio (+)	Green	CONN1 – PIN1	
Radio (-)	White/Green	CONN1 – PIN2	
Relay 16 (Low Side 4, 500 mA)	Blue	CONN1 – PIN3	
Relay 15 (Low Side 3, 500 mA)	Brown	CONN1 – PIN4	
Relay 14 (Low Side 2, 500 mA)	White/Blue	CONN1 – PIN5	
Relay 13 (Low Side 1, 500 mA)	White/Brown	CONN1 – PIN6	
Horn	White	CONN1 – PIN7	
Ignition	Yellow	CONN1 – PIN8	
Park	Gray	CONN1 – PIN9	
Input 1	Orange	CONN1 – PIN10	
Input 2	Violet	CONN1 – PIN11	
Input 3	White/Red	CONN1 – PIN12	
Input 4	White/Orange	CONN1 – PIN13	
Horn Ring	White/Yellow	CONN1 – PIN14	
Speaker 1-	Brown	CONN3 - PIN 1	
Speaker 2-	White/Brown	CONN3 - PIN 2	
Speaker 3-	Orange	CONN3 - PIN 3	
Speaker 4-	White/Orange	CONN3 - PIN 4	
Speaker 1+	Blue	CONN3 - PIN 5	
Speaker 2+	White/Blue	CONN3 - PIN 6	
Speaker 3+	Green	CONN3 - PIN 7	
Speaker 4+	White/Green	CONN3 - PIN 8	
Bat (-)	Black	CONN4 - PIN1	
Siren +DC	Red	CONN4 - PIN2	
Lighting +DC	Red	CONN4 - PIN3	