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❶NE

CONTROLLER | SIREN | FLEET MANAGER

FENIEX ONE CONTROLLER

QUICK REFERENCE GUIDE

F1-0121

MADE IN ★ THE USA

SAFETY REGULATIONS & WARRANTY

Safety Regulations

The following provides all the information necessary to safely operate the previously listed products of Feniex Industries, Inc. Please read this manual thoroughly before installing or operating your new product in order to prevent any damage or injury. Failure to follow the listed instructions in this manual may result in damage to your products or personal injury.

• Proper installation of this product requires good knowledge of automotive systems, electronics and procedures.
• Please guarantee all vital components of the vehicle are not in danger of being damaged by drilling holes necessary for installation. Check all sides of the mounting surface before drilling any holes into the vehicle.
• Do not install this product in any way that interferes with the deployment of the air bag. Doing so may damage the effectiveness of the air bag and can lead to serious personal and vehicle injury. The installer will assume full responsibility of proper installation of the new unit.
• Please clean the mounting surface before installation of the unit when using tape, brackets, magnet, Velcro or suction cups.
• The product's ground wire must be connected directly to the Negative (-) battery post for effective use of the unit. Please follow all wiring guidelines provided to guarantee long lifespan and productivity. Failing to follow these instructions may result in damage to the product.

Warranty

Feniex Industries, Inc. warranties to the original purchaser that all our products shall be free from defects in material and workmanship. Feniex Industries' speakers, sirens, rocker panels, AM600 Beacons, Torch Lights, AI lightbars, AI Cubes, AM900 Work Lights, 8.5" Dome Lights, flashlights, Remote Spot Lights and controllers are warrantied for 2 years from the manufacturing date. In addition, all other products are warrantied for 5 years from the manufacturing date. .

If a warranty problem occurs, please contact customer support at 1.800.615.8350 or visit the web site at www.Feniex.com.

If the product needs to be returned for repair or replacement, call our customer support line to receive a return merchandise authorization number.

Operational times are from 10 a.m. to 5 p.m. central time, Monday through Friday. Please do not send in product without contacting support first for a RMA number.

Service After Expiration

Feniex Industries will still provide service for all products after expiration of the warranty. For any issues, call the customer support line. In some instances it may be necessary for the product to be shipped, freight prepaid and insured for loss or damage to Feniex headquarters.

Warning! Utilizing non-factory screws and mounting brackets may result in loss of warranty coverage.

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Feniex Product Copyrights

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Visit Feniex University to learn how to install, program and mount your Feniex One.

https://feniexuniversity.com/
Visit Feniex University to watch in-depth tutorials on the topics listed below:

CONTROLLER & RELAY VIDEO TOPICS:

Introduction to the Feniex One controller and relay

What comes with the Feniex One?

Mounting the controller and relay

The functionalities of the controller

Functionalities of the siren relay

Wiring up and powering the Feniex One

Servicing the Feniex One?

Understanding the software interface

Programming the 21 button and slide switch

Programming the 8 inputs

Programming the OBD2 plug-in

Programming the 32 outputs

Programming the dual-tone 200W siren

Programming and wiring the Quad Serial port

Programming the data link ports

Programming the global vehicle sync

SOFTWARE VIDEO TOPICS:

Understanding the Fleet Manager

Understanding the Fleet Tracker

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◢ BOX CONTENTS

Component	Quantity	Component	Qty.
Feniex One Relay	1	Button Legend Sheets	4
Feniex One Controller	1	16 pin Wire Harness	2
Antenna	1	8 pin Wire Harness	2
USB Cable	1	6 pin Wire Harness	1
Ethernet Cable	1	Power Cable Harness	1
U-Bracket	1	14pin Controller to Relay	1
8 pin Input Wire Harness	1	Magnet	1
Microphone	1		

USB Cable

Controller

Antenna

Ethernet Cable

Relay and 200W Siren

U-Bracket

Power Cable   8-pin Wire   6-pin Wire   16-pin Wire

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◢ EQUIPMENT DIMENSIONS

Relay	8" x 6.25" x 2.44"	Controller	7.25" x 1.5" x 3.13"
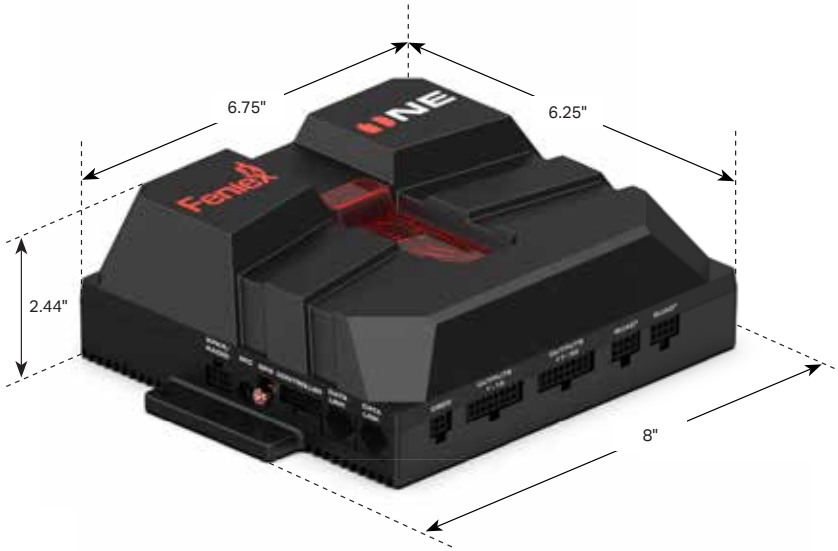
◢ SPECIFICATIONS

Warranty	2 years

Input Voltage	9-16 V DC
Current Draw	80 Amps
Built-in Relay	Yes
Standby Current*	1 Amp*
Fuse	125% circuit load

Important: *Recommended to use a power disconnect device to disconnect the system from vehicle battery. Failure to do so can deplete the vehicle's battery.*

PROGRAMMABLE INPUTS:

There are 8 inputs and 32 outputs on the relay. Input 1 is a system input for dedicated ignition.

AMPS PER OUTPUT

Each output is rated at 5 Amps.

Note: Each output will supply 5 amps. The output will turn off when this is exceeded. If this occurs you can tie multiple outputs together to get your desired current. Also, note the total maximum current when all outputs are used cannot exceed 60 Amps.

AMPS PER BLOCK

There are 15 Amps per block of outputs:
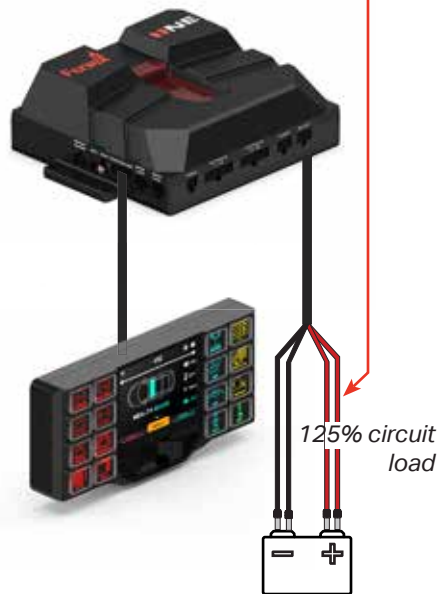
Block1 :Outputs 1-8
Block2 :Outputs 9-16
Block3 :Outputs 17-24
Block4 :Outputs 25-32

MAXIMUM OUTPUT

The maximum output is 60 Amps with all outputs.

125% circuit load

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▲ WIRING HARNESS: OUTPUT WIRE HARNESS 1-16

■ WIRING HARNESS: OUTPUT WIRE HARNESS

1. RED	OUTPUT 1
2. BLACK	OUTPUT 2
3. GREEN	OUTPUT 3
4. WHITE	OUTPUT 4
5. GREY	OUTPUT 5
6. BROWN	OUTPUT 6
7. YELLOW	OUTPUT 7
8. BLUE	OUTPUT 8
9. BLUE/WHITE	OUTPUT 9
10. YELLOW/BLACK	OUTPUT 10
11. BROWN/WHITE	OUTPUT 11
12. WHITE/GREY	OUTPUT 12
13. BLACK/WHITE	OUTPUT 13
14. GREEN/GREY	OUTPUT 14
15. BLACK/GREY	OUTPUT 15
16. RED/WHITE	OUTPUT 16
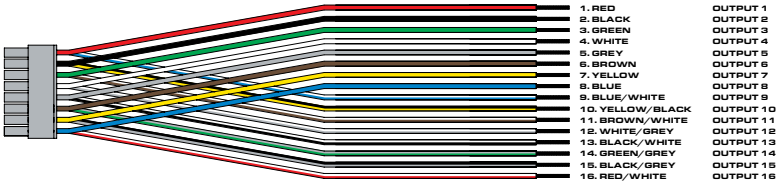
POS.	WIRE FUNCTION	COLOR	GUAGE	AMPS	NOTES:
1	Output 1	Red	18G		
2	Output 2	Black	18G		
3	Output 3	Green	18G		
4	Output 4	White	18G		
5	Output 5	Grey	18G	15Amps	
6	Output 6	Brown	18G		
7	Output 7	Yellow	18G		
8	Output 8	Blue	18G		
9	Output 9	Blue/White	18G		
10	Output 10	Yellow/Black	18G		
11	Output 11	Brown/White	18G		
12	Output 12	White/Grey	18G	15Amps	
13	Output 13	Black/White	18G		
14	Output 14	Green/Grey	18G		
15	Output 15	Black/Grey	18G		
16	Output 16	Red/White	18G		

Note: Each output will supply 5 amps. The output will turn off when this is exceeded. If this occurs you can tie multiple outputs together to get your desired current. Also, note the total maximum current when all outputs are used cannot exceed 60 Amps.

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■ **WIRING HARNESS: OUTPUT WIRE HARNESS**

1. BLUE	OUTPUT 17
2. YELLOW	OUTPUT 18
3. BROWN	OUTPUT 19
4. GREY	OUTPUT 20
5. WHITE	OUTPUT 21
6. GREEN	OUTPUT 22
7. BLACK	OUTPUT 23
8. RED	OUTPUT 24
9. WHITE/RED	OUTPUT 25
10. GREY/BLACK	OUTPUT 26
11. GREY/GREEN	OUTPUT 27
12. WHITE/BLACK	OUTPUT 28
13. WHITE/GREY	OUTPUT 29
14. GREY/BROWN	OUTPUT 30
15. BLACK/YELLOW	OUTPUT 31
16. WHITE/BLUE	OUTPUT 32
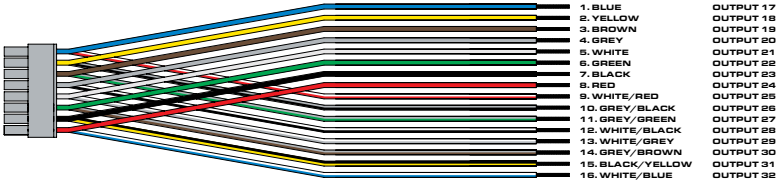
POS.	WIRE FUNCTION	COLOR	GUAGE	AMPS	NOTES:
1	Output 17	Red	18g		
2	Output 18	Black	18g		
3	Output 19	Green	18g		
4	Output 20	White	18g		
5	Output 21	Grey	18g	15AMPS	
6	Output 22	Brown	18g		
7	Output 23	Yellow	18g		
8	Output 24	Blue	18g		
9	Output 25	Blue/White	18g		
10	Output 26	Yellow/Black	18g		
11	Output 27	Brown/White	18g		
12	Output 28	White/Grey	18g		
13	Output 29	Black/White	18g	15AMPS	
14	Output 30	Green/Grey	18g		
15	Output 31	Black/Grey	18g		
16	Output 32	Red/White	18g		

Note: Each output will supply 5 amps. The output will turn off when this is exceeded. If this occurs you can tie multiple outputs together to get your desired current. Also, note the total maximum current when all outputs are used cannot exceed 60 Amps.

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◢ WIRING HARNESS: INPUT WIRE HARNESS

The Feniex One input wiring harness can come in two different versions. Check your wiring harness and follow the correct wiring diagram below.
Positive or negative activation can be switched using the Feniex One Software. Use the link below for video instructions:

https://tinyurl.com/4frsp3z8

■ WIRING HARNESS: INPUT WIRE HARNESS VERSION A
All inputs can be configured in software to activate with battery or ground

POS.	WIRE FUNCTION	COLOR	GUAGE	+/- ACT.	NOTES:
1	Input 1 [A]	Yellow	22G	- / +	Ignition. Default setting to (-)
2	Input 2 [B]	Brown	24G	+ / -	Default setting to (-)
3	Input 3 [C]	White	24G	+ / -	Default setting to (-)
4	Input 4 [D]	Blue	24G	+ / -	Default setting to (-)
5	Input 5 [E]	Green	24G	+ / -	Default setting to (-)
6	Input 6 [F]	Black	24G	+ / -	Default setting to (-)
7	Input 7 [G]	Grey	24G	+ / -	Default setting to (-)
8	Input 8 [H]	Red	24G	+ / -	Default setting to (-)

■ WIRING HARNESS: INPUT WIRE HARNESS VERSION B
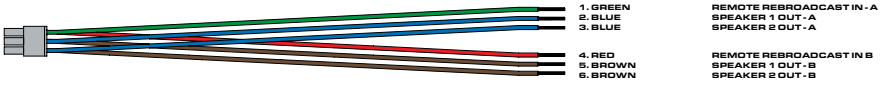*All inputs can be configured in software to activate with battery or ground*

POS.	WIRE FUNCTION	COLOR	GUAGE	+/- ACT.	NOTES:
1	Input 1 [A]	Yellow	22G	- / +	Ignition. Default setting to (-)
2	Input 2 [B]	Brown	24G	- / +	Default setting to (-)
3	Input 3 [C]	White	24G	- / +	Default setting to (-)
4	Input 4 [D]	Blue	24G	- / +	Default setting to (-)
5	Input 5 [E]	Green	24G	- / +	Default setting to (-)
6	Input 6 [F]	Orange	24G	- / +	Default setting to (-)
7	Input 7 [G]	Grey	24G	- / +	Default setting to (-)
8	Input 8 [H]	Pink	24G	- / +	Default setting to (-)

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◢ WIRING HARNESS: SIREN WIRE HARNESS

■ **WIRING HARNESS: SIREN WIRE HARNESS**

1. GREEN — REMOTE REBROADCAST IN - A
2. BLUE — SPEAKER 1 OUT - A
3. BLUE — SPEAKER 2 OUT - A
4. RED — REMOTE REBROADCAST IN B
5. BROWN — SPEAKER 1 OUT - B
6. BROWN — SPEAKER 2 OUT - B

POS.	WIRE FUNCTION	COLOR	GUAGE	NOTES:
1	Remote Rebroadcast In - A	Green	24G	
2	Speaker 1 Out - A	Blue	24G	
3	Speaker 2 Out - A	Blue	24G	
4	Remote Rebroadcast In - B	Red	24G	
5	Speaker 1 Out - B	Brown	24G	
6	Speaker 2 Out - B	Brown	24G	

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◢ WIRING HARNESS: DATA WIRE HARNESS

■ **WIRING HARNESS: DATA WIRE HARNESS**
Connect maximum of 6 Quad products per pair of green + white quad channels

1. GREEN	QUAD CHANNEL 1 - Y	
2. GREEN	QUAD CHANNEL 2 - Y	
3. GREEN	QUAD CHANNEL 3 - Y	
4. GREEN	QUAD CHANNEL 4 - Y	
5. WHITE	QUAD CHANNEL 1 - Z	
6. WHITE	QUAD CHANNEL 2 - Z	
7. WHITE	QUAD CHANNEL 3 - Z	
8. WHITE	QUAD CHANNEL 4 - Z	
1. GREEN	QUAD CHANNEL 5 - Y	
2. GREEN	QUAD CHANNEL 6 - Y	
3. GREEN	QUAD CHANNEL 7 - Y	
4. GREEN	QUAD CHANNEL 8 - Y	
5. WHITE	QUAD CHANNEL 5 - Z	
6. WHITE	QUAD CHANNEL 6 - Z	
7. WHITE	QUAD CHANNEL 7 - Z	
8. WHITE	QUAD CHANNEL 8 - Z	

POS.	WIRE FUNCTION	COLOR	GUAGE	NOTES:
1	Quad Channel 1 - Y	Green	24G	
2	Quad Channel 2 - Y	Green	24G	
3	Quad Channel 3 - Y	Green	24G	
4	Quad Channel 4 - Y	Green	24G	
5	Quad Channel 1 - Z	White	24G	
6	Quad Channel 2 - Z	White	24G	
7	Quad Channel 3 - Z	White	24G	
8	Quad Channel 4 - Z	White	24G	
1	Quad Channel 5 - Y	Green	24G	
2	Quad Channel 6 - Y	Green	24G	
3	Quad Channel 7 - Y	Green	24G	
4	Quad Channel 8 - Y	Green	24G	
5	Quad Channel 5 - Z	White	24G	
6	Quad Channel 6 - Z	White	24G	
7	Quad Channel 7 - Z	White	24G	
8	Quad Channel 8 - Z	White	24G	

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RADIO RE: A

RADIO RE: B

INPUTS A - H

SIREN WIRE HARNESS

INPUT WIRE HARNESS

DATA WIRE HARNESS

DATA WIRE HARNESS

QUAD WIRE HARNESS

QUAD WIRE HARNESS

DATA LINK 2

DATA LINK 1

OBD2

OUTPUTS 1 - 16

OUTPUTS 17 - 32

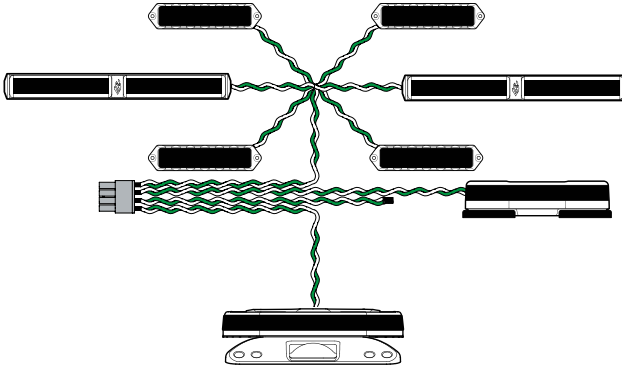QUAD 1 - 4

QUAD 5 - 6

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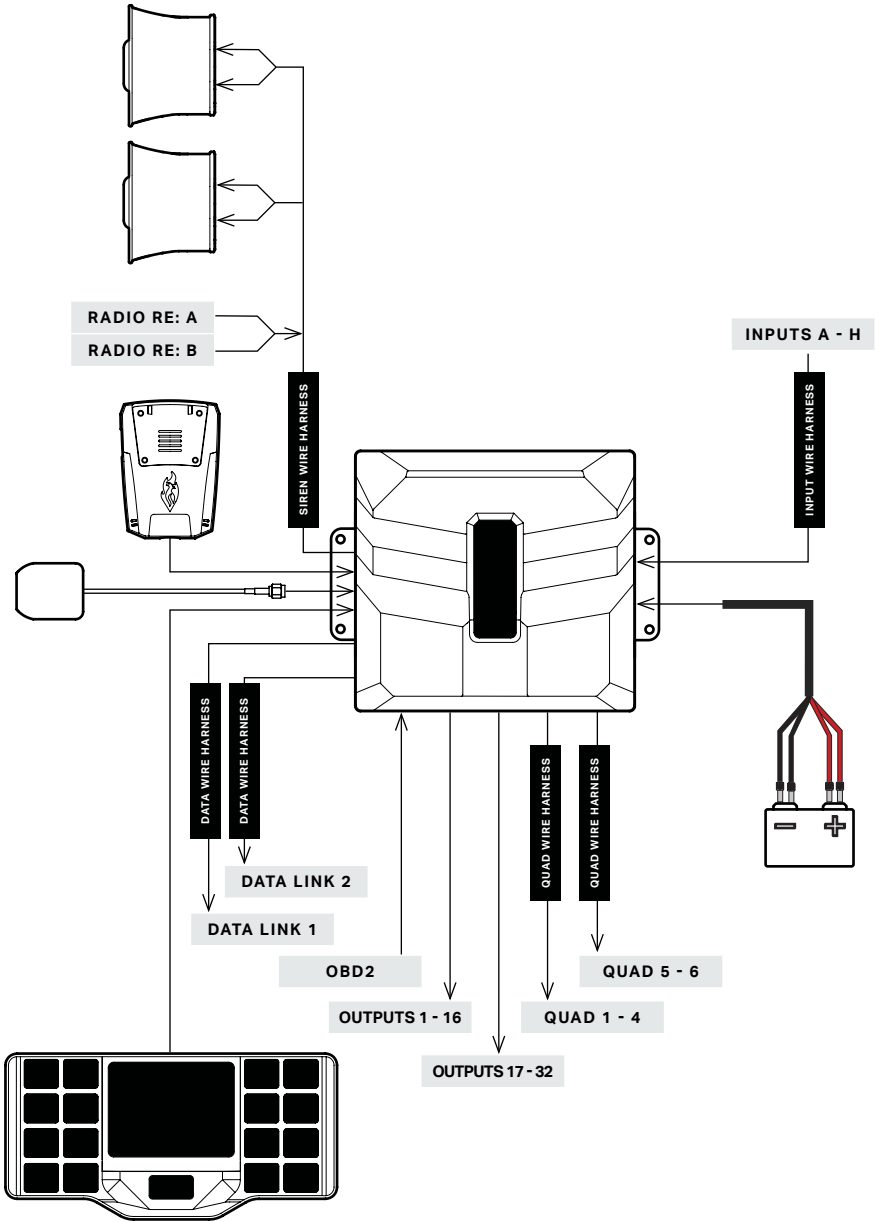
◤ DATA WIRE: DAISY CHAIN INSTRUCTIONS

When using the daisy chain to connect your Quad products, only connect 6 Quad products to each green/white data wire set. Do not mix paired green/white wires. Twisted pair cables recommend 7 turns per foot.

▪ WIRING HARNESS: CORRECT WIRING
Connect maximum of 6 Quad products per pair of green + white quad channels

▪ WIRING HARNESS: INCORRECT WIRING
Below illustrates 8 Quad products connected to a pair of green + white quad channels.