

nERGY® bluePRINT®

INPUT NODE PART NUMBER: ENGND20001

The Input Node provides 20 inputs for connection to vehicle devices.

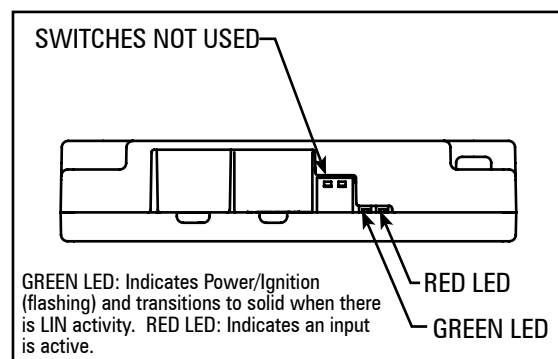
- (13) Active High/Low Inputs
- (7) Active High Inputs

CONNECTING INPUT NODE TO CENTRAL CONTROLLER

- Connect the Input Node to the Central Controller by connecting the single wire LIN wire to the Central Controller LIN connector.

IGNITION INPUT

- Connect the ignition switch to put the Input Node into low power (sleep mode) when ignition is off. The ignition input signal is needed for normal operation.



⚠ WARNING

- HIGH CURRENT interconnects must be properly terminated. Poor crimp quality can cause heat build-up and fire. Follow crimp connector manufacturer instructions.
- DO NOT install this product or route any wires in the Air Bag Deployment Zone. Refer to vehicle Owner's Manual for deployment zones.
- Do NOT use system to disconnect headlights, brake lights or other safety equipment.
- Unit may become hot to touch during normal operation.
- Failure to properly install connectors, fuses or wiring may cause vehicle failure or fire.
- Installation must only be performed by trained technician. Installer must determine vehicle wiring configuration and proper integration of system.
- Use proper wire gauge. All power wires connecting to positive (+) or negative (-) battery terminal or local chassis ground (-) must be sized to supply at least 125% of max. current and properly fused at power source.
- Install protective grommets when routing wire through firewall or metal.



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Tech Specs	nERGY Control System Input Node
Input Voltage:	10-16Vdc (Negative Ground)
Maximum Input Current:	NA
Outputs (Sum of ALL used Outputs Shall Not Exceed 100Amps)	None
IGN ON: Standby Current:	30 mA
IGN OFF: Sleep Current:	0.20 mA
Inputs:	20 Total 13x Active High/Low Inputs 7x Active High Inputs 1x Local IGN Input (Local Sleep Mode)
Reverse Polarity Protection:	Protected
Transient Protection:	Protected
High Voltage Protection:	>16V; High Voltage Error Code Set
Low Voltage Protection:	<9V; Low Voltage Error Code Set
Operating Temp:	-40° C to + 65° C
Dimensions:	3.5" x 3.5" x .75"
Weight, Boxed:	5 oz.
Weight, Device Only:	4 oz.
Valid Input Threshold - High	>7.5V
Valid Input Threshold - Low	<1.5V
The Input Node is not waterproof. Install in a protected location away from excessive heat and moisture.	

NOTICE:

Installers and users must comply with all applicable federal, state and local laws regarding use and installation of warning devices.

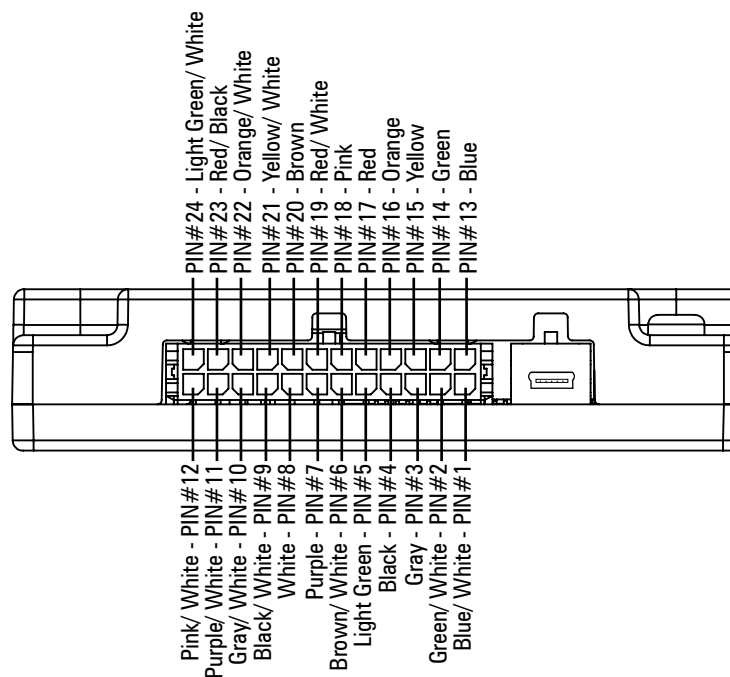
*Improper use or installation may void warranty coverage. To review our Limited Warranty Statement & Return Policy for this or any SoundOff Signal product, visit our website at www.soundoffsignal.com/sales-support. If you have questions regarding this product, contact **Technical Services**, Monday - Friday, 8 a.m. to 5 p.m. at **1.800338.7337** (press #4 to skip the automated message). Questions or comments that do not require immediate attention may be emailed to techservices@soundoffsignal.com.*

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INPUT NODE
PART NUMBER: ENGND20001

Function	Wire Pin #	Wire Color	Activation
Input 1	1	Blue/White	H/L
Input 2	2	Green/White	H/L
Input 3	3	Gray	H/L
Ground	4	Black	
LIN Data	5	Light Green	
Input 6	6	Brown/White	H/L
Input 7	7	Purple	H/L
Input 8	8	White	H/L
Input 9	9	Black/White	H
Input 10	10	Gray/White	H
Input 11	11	Purple/White	H
Ignition	12	Pink/White	
Input 13	13	Blue	H/L
Input 14	14	Green	H/L
Input 15	15	Yellow	H/L
Input 16	16	Orange	H/L
Power	17	Red	
Input 18	18	Pink	H/L
Input 19	19	Red/White	H/L
Input 20	20	Brown	H/L
Input 21	21	Yellow/White	H
Input 22	22	Orange/White	H
Input 23	23	Red/Black	H
Input 24	24	Light Green/White	H



See attached Install Template to aid in connections and programming.



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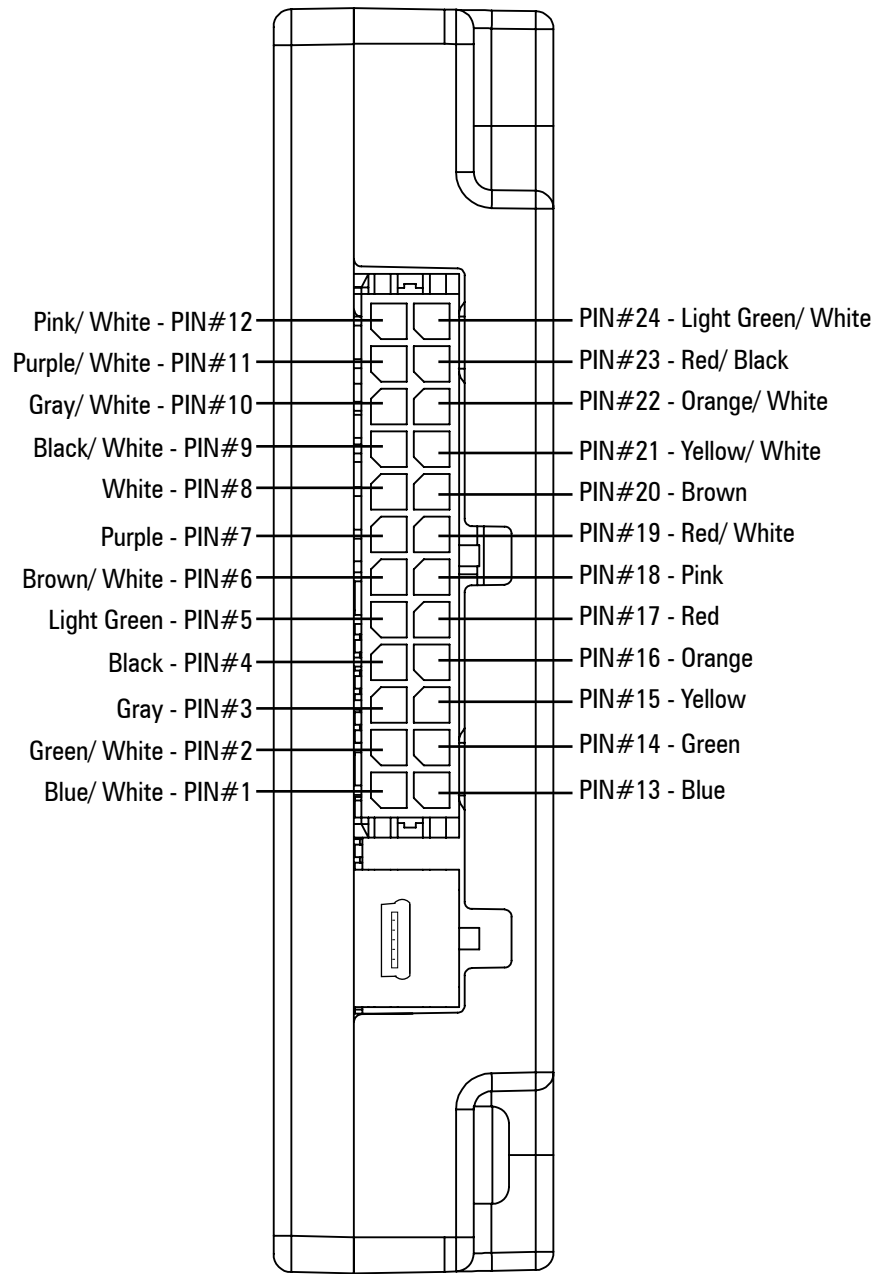
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**INPUT NODE
INSTALL TEMPLATE**

Department: _____
 Vehicle: _____
 Installer / Date: _____
 Mounting Location: _____

Wire Color	Function
_____	IGNITION
_____	H, Input 11
_____	H, Input 10
_____	H, Input 9
_____	H/L, Input 8
_____	H/L, Input 7
_____	H/L, Input 6
_____	LIN DATA
_____	GROUND
_____	H/L, Input 3
_____	H/L, Input 2
_____	H/L, Input 1



Function	Wire Color
Input 24, H	_____
Input 23, H	_____
Input 22, H	_____
Input 21, H	_____
Input 20, H/L	_____
Input 19, H/L	_____
Input 18, H/L	_____
POWER	_____
Input 16, H/L	_____
Input 15, H/L	_____
Input 14, H/L	_____
Input 13, H/L	_____