



INPUT NODE PART NUMBER: ENGND20001

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

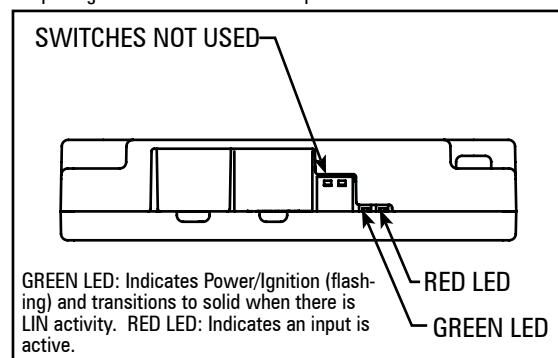
- (13) Active High/Low Inputs
- (7) Active High Inputs

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.



Tech Specs	bluePRINT® 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.

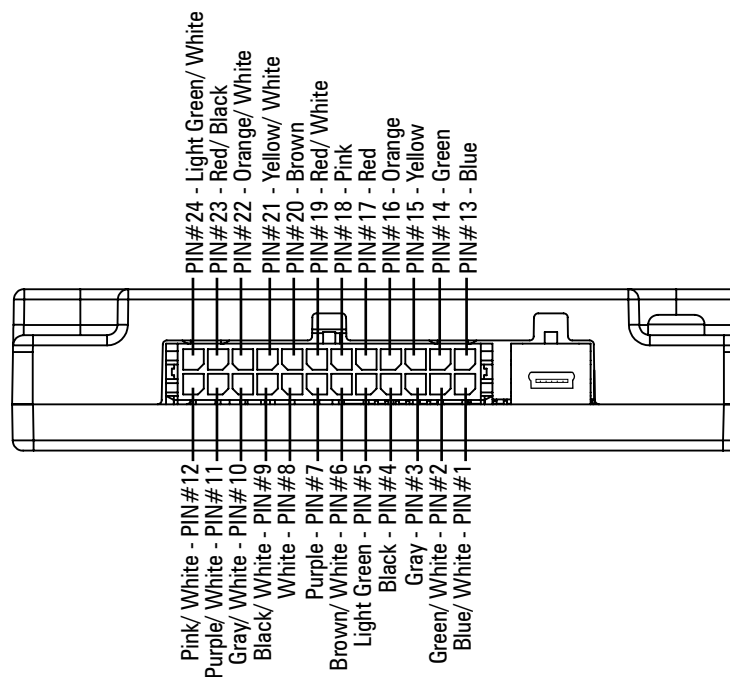
Improper use or installation may void warranty coverage.

To review our Limited Warranty Statement & Return Policy for this or any SoundOff Signal product, visit our website at www.soundoffsignal.com/tech-services/returns/. If you have questions regarding this product, contact **Technical Services**, Monday - Friday, 8 a.m. to 5 p.m. or after hours 5 p.m. to 8 p.m. ET at **1.800.338.7337** (press #4). 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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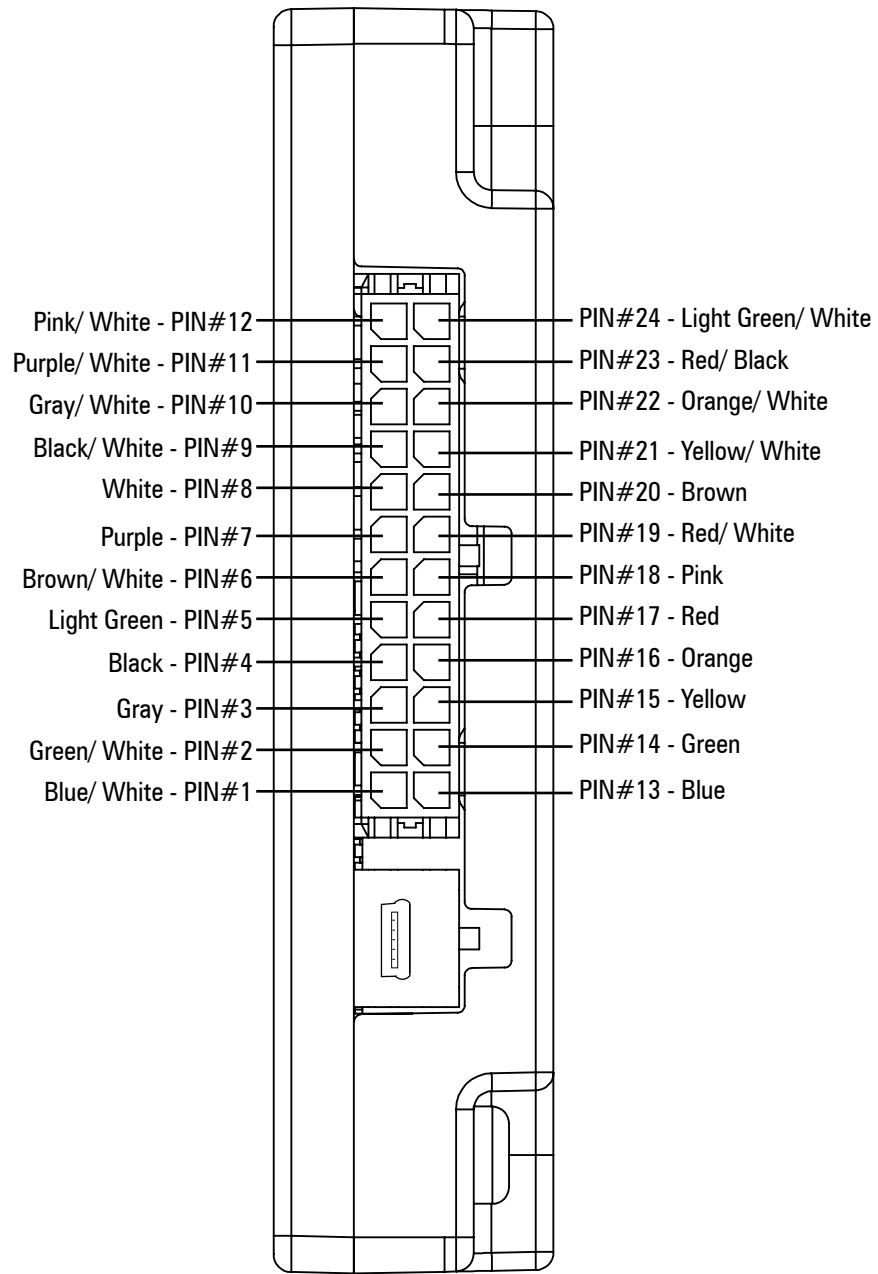


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**INPUT NODE
INSTALL TEMPLATE**

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	_____