

### WARRANTY

BeeDe Electrical Instrument Co., Inc. warrants all instruments and accessories free from all defects in workmanship and materials on gauges that are less than three (3) years old or have been in service fewer than two (2) years and, at no charge, will replace or repair at BeeDe's option all instruments that fail. Contact BeeDe for complete details.

## NexSysLink® Serial Data Bus Instrument Installation Instructions

### ⚠ WARNING

Improper installation may damage the instrument and/or cause injury to the installer. If you have installation questions, please contact the factory. Disconnect battery cables before installing the instrument. Check for obstructions behind dash panel such as wires and hoses before cutting the mounting hole for the instrument.

### SYSTEM DESCRIPTION

NexSysLink serial data bus instruments must be used with a Controller Area Network (CAN) system. This system supports SAE J1939, SmartCraft®, NMEA2000® or Indmar engines protocols. Optional auxiliary inputs allow for sender, thermistor and/or NMEA 0183 inputs.

### MOUNTING

Recommended dash hole sizes:

- 2 inch instruments: 2.125±.015 in (53.98±0.38 mm) DIA.
- 3 inch instruments: 3.380±.015 in (85.85±0.38 mm) DIA.
- 5 inch instruments: 4.65±.02 in (118.10±0.50 mm) DIA.

Secure the instrument into dashboard with mounting "J" clamp and Kep nuts. If dashboard thickness exceeds clamp grip range, clamp legs may be shortened. Position instrument in dash board prior to tightening clamp nuts to recommended torque. Maximum recommended tightening torque for all hardware: 6 lb-in (0.68 N-m). Caution, over tightening mounting hardware may damage the instrument.

### MAINTENANCE

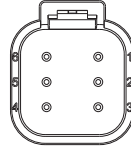
Periodically check and torque all hardware per mounting specifications. Clean glass with a soft, damp, clean cloth.

### THANK YOU!

Thank you for purchasing a BeeDe instrument. Our instruments are made for you in the U.S.A. Visit our WEB site at www.beede.com or contact customer service for information on this or other BeeDe Instruments.

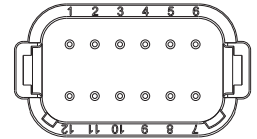
See reverse side for user interface and analog sender wiring.

6 Pin Connector Wiring Table	
Pin Number	Connection Name
1 & 6	Battery +
2 & 5	Ground
3 & 4	Serial Data

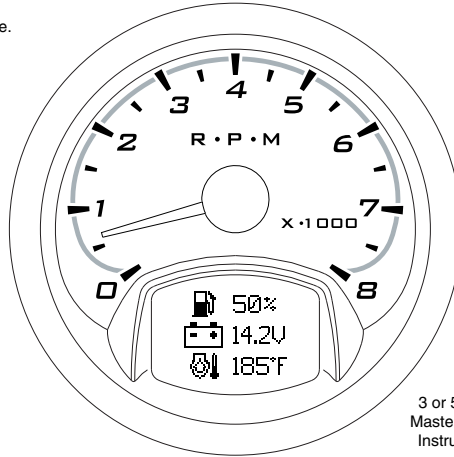


6 Pin Connector Detail  
Mates with Deutsch I.P.D  
DT Series Connector  
DT-06-6S  
Locking Wedge W6S

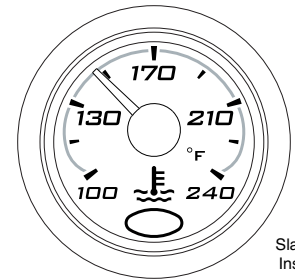
12 Pin Connector Wiring Table	
Pin Number	Connection Name
1	Switched Battery (Ignition Key On)
2	System Ground (Analog Input Ground)
3	CAN-L
4	CAN-H
5	Lamp Input
6	Battery (24/7)
7	Analog 1 Input
8	Analog 2/NMEA 0813 Input
9	Switch Common
10	Up Switch (Button)
11	Down Switch (Button)
12	Mode Switch (Button)



12 Pin Connector Detail  
Mates with Deutsch I.P.D  
DT Series Connector  
DT-06-12SA  
Locking Wedge W12SA

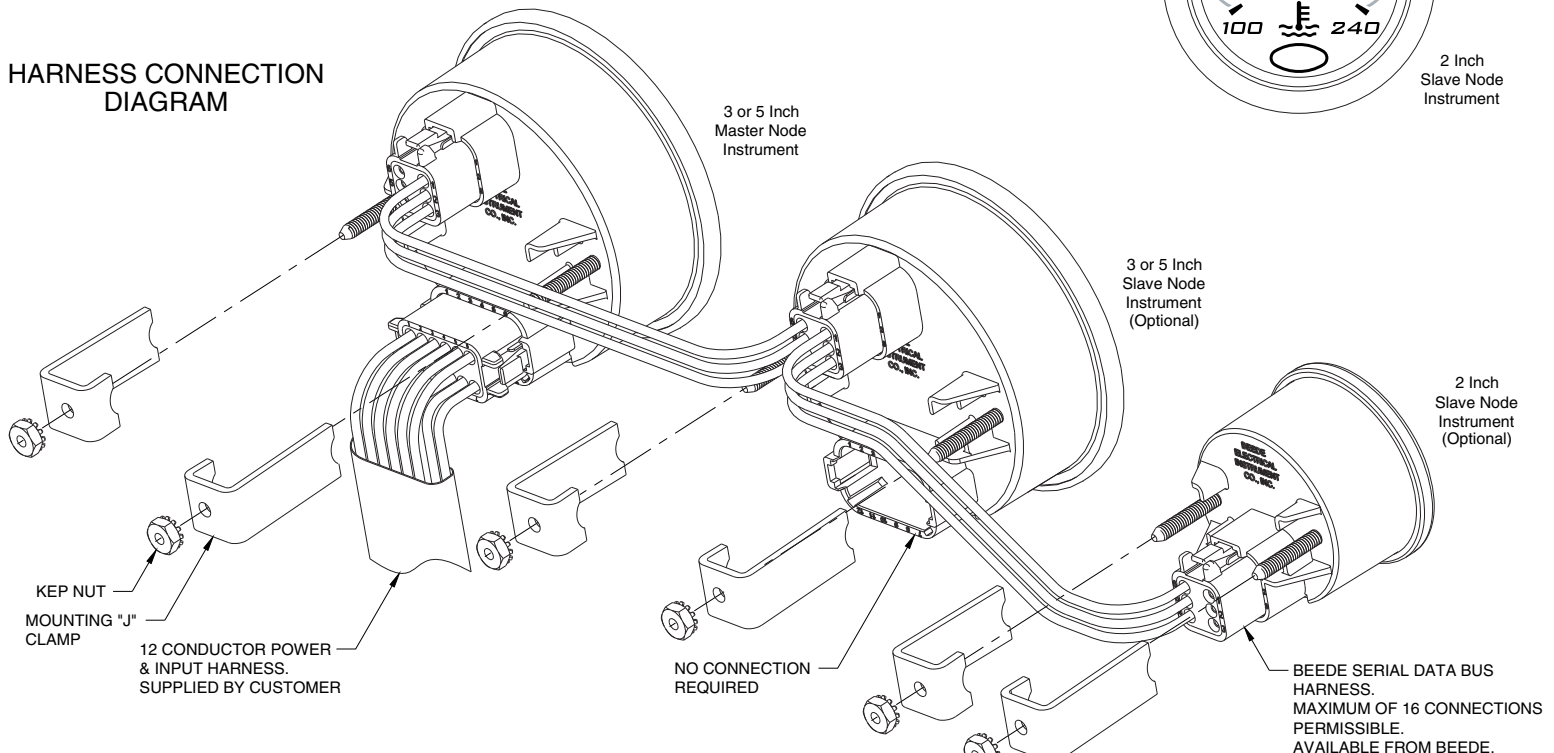


3 or 5 Inch  
Master Node  
Instrument



2 Inch  
Slave Node  
Instrument

### HARNESS CONNECTION DIAGRAM



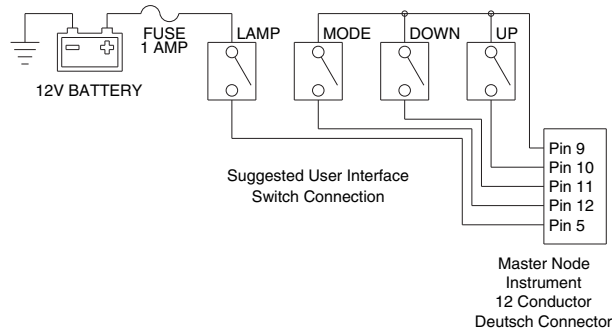
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## User Interface Switch Requirements

Single pole single throw (SPST) normally open momentary switches are required for each of the three switch inputs (Up, Down, & Mode) in order to navigate the Master Instrument user interface. These switches connect to pins 10 thru 12 of the power & input harness. Refer to 12 pin connector wiring table on reverse side.



## Analog Sender Ground Connection Wiring

Proper wiring for analog senders requires that each sender ground connection use a discrete wire. These discrete wires shall connect as closely as possible to Pin 2 (Ground Pin) of the 12 pin connector on the Master Node Instrument. Care should be taken to insure the electrical and mechanical integrity of all wire splices required to make the ground connections. 16 AWG stranded wire is recommended for the ground connections.

