

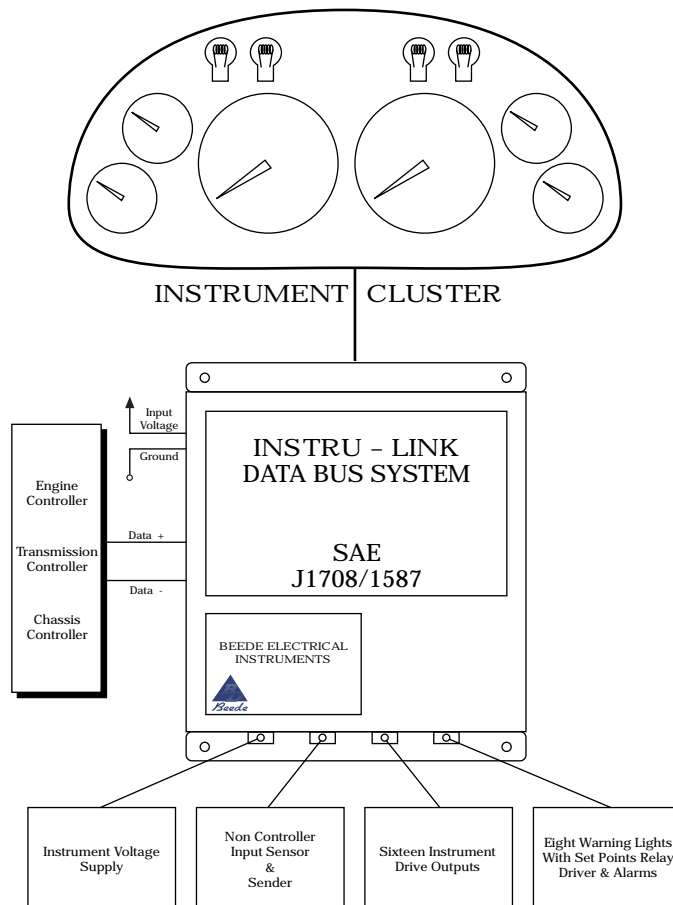
Engine instrumentation and electronics

Custom engineered for bottom line performance

INSTRU-LINK™
DATA BUS SYSTEM

INSTRU-LINK™ DATA BUS SYSTEM

Beede introduces a new electronic programmable data bus that interfaces with today's modern electronically-controlled engines using SAEJ1708/J1587 Protocol.



Features and Benefits

- 12 or 24 volt system with reverse polarity; errant spike protection and regulated voltage control
- Provision for 16 instrument functions – accurately monitors all functions of the engine chassis and transmission – the vehicle electronic control modules share common data
- Eight warning light functions with audible alarm function and shutdown capability
- Parallel instrument drive; if the harness or one instrument fails, the failure does not affect the other instruments
- Improved reliability and instrument accuracy
- Elimination of redundant senders and sensors for a substantial cost savings
- Installation of the Data Bus and instrumentation is simplified and less costly
- Meets or exceeds SAE J1455 for EMI RFI requirements
- Protected by Beede two-year warranty

SYSTEM INCLUDES INSTRUMENTATION AND INSTRU-LINK DATA BUS CONTROLLER



Environmental Specifications

Accuracy

Tachometers: $\pm 2\%$ of F.S. @ 75°F (24°C)
Hourmeter: $\pm 1\%$ @ 75°F (24°C)
Speedometer: $\pm 2\%$ of F.S. (Analog) @ 75°F (24°C)
 $\pm 1\%$ Distance Indication (Odometer)
Gauges: May vary with application type. Please contact factory for specific information.
 $\pm 2\%$ of F.S. @ 75°F (24°C)

Temperature

Operating: -20°F to +185°F (-28°C to 85°C)
Maximum Change: $\pm 2\%$ F.S. from 75°F (24°C) indication

Shock

100G, 9-13 ms half sine, 25 shocks in each of three orthogonal axes with no damage.

SAE Specifications

The Beede Instru-Link System complies with SAE specifications: J1708 and J1587.

Connector

Standard molex connectors

Vibration

0.060" double amplitude 10-80-10 Hz. Two hours in each of three orthogonal axes: remains within initial accuracy.

Operating Voltage

12-16 VDC standard; for 24 VDC operation, contact factory.

Over Voltage

Withstands 20 V continuously for one hour

Reverse Polarity Protection

Standard, entire system including instruments

Voltage Variance

$\pm 1\%$ of initial reading, 12-16 VDC

Load Dump

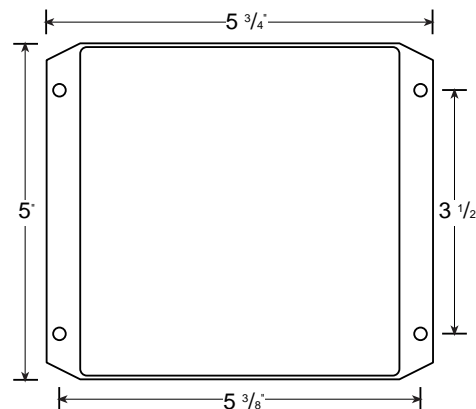
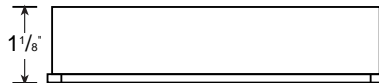
Meets SAE J1113, 3 positive 80 V transients, one minute intervals.

Installation

Call factory for proper location of Instru-Link System and Wiring information.

Dimensions

Height - $1\frac{1}{8}"$
Length - $5\frac{3}{4}"$
Width - 5"



2 Year Warranty

BEEDE electrical instruments are warranted to be free from defects in materials and/or workmanship under normal use and service for two years. Beede's obligation under this warranty is limited to repair or replacement at our option at our factory.