



**SENSOR CONNECTIONS**

PIN	SYMBOL	DESCRIPTION
A	+E	+Excitation
B	+S	+Signal
C	-E	-Excitation, TEDS return
D	-S	-Signal
E	TEDS_IO	TEDS Data
F	24_OUT	24V output

**SENSOR CONNECTIONS**

PIN	SYMBOL	DESCRIPTION
G	GND_OUT	Ground
H	5_OUT	5V Output
J	-V	-V and -mA Amplified Input Connections
K	+V	+V and +mA Amplified Input Connections
L	PLEAD	Leading pulse from sensor
M	PLAG	Lagging pulse from sensor

**NOTES**

Sensor cable shield connections should be grounded on one end, either the sensor side or the instrument side, to avoid potential ground loops.

Shield should be connected to cable clamp of binder cable assembly when connecting on instrument side.



## AMPLIFIED WIRING EXAMPLE: TRS605 TO IHH500

### TORQUE CONNECTIONS

- Power Pin (F)
- Power Ground Pin (E)
- Signal Output Pin (C)
- Output Ground Pin (D)

### ENCODER CONNECTIONS

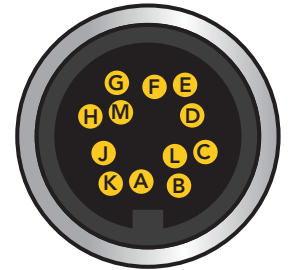
- Power Pin (H)
- Power Ground Pin (E)
- Signal Angle 1 Pin (B)
- Signal Angle 2 Pin (G)

**Note:** Encoder and torque share the same power ground connection, E to G. Encoder connections are supported by the IHH500 Elite.

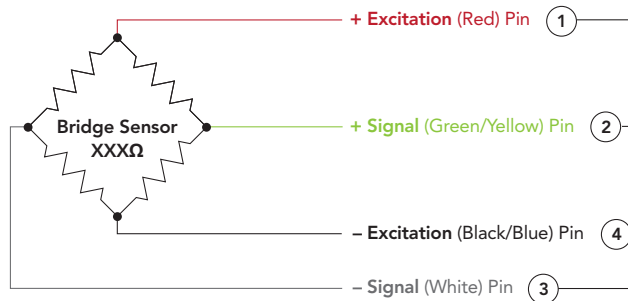
IHH500

- (F)
- (G)
- (K)
- (J)

- (H)
- (G)
- (L)
- (M)



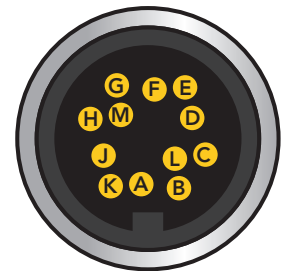
## mV/V WIRING EXAMPLE: LSB200 TO IHH500



**Note:** For sensors with  $\pm$  Sense, the sense wires must be connected to  $\pm$  Excitation or clipped off.

IHH500

- (A)
- (B)
- (C)
- (D)



### Drawing Number: SP1153-A

Copyright © FUTEK Advanced Sensor Technology, Inc. Neither the whole nor any part of the information contained in, or the product described in this manual, may be adapted or reproduced in any material or electronic form without the prior written consent of the copyright holder.

This product and its documentation are supplied on an as-is basis and no warranty as to their suitability for any particular purpose is either made or implied.

This document provides preliminary information that may be subject to change without notice.

10 Thomas, Irvine, CA 92618 USA

Tel: (949) 465-0900

Fax: (949) 465-0905

[www.futek.com](http://www.futek.com)



U.S. Manufacturer