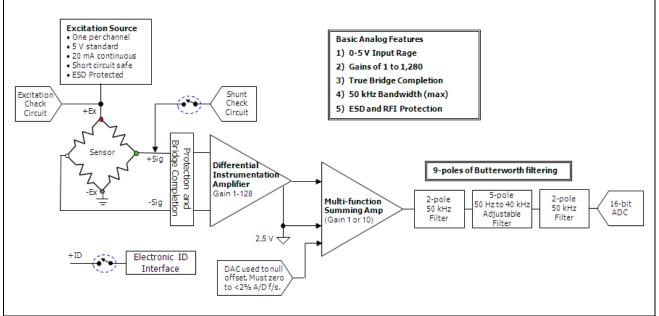


This document is a condensed overview of SLICE NANO/SLICE MICRO sensor implementation basics. It contains SLICE Bridge pin assignments and general implementation schematics for many commonly used sensors. For additional details and product specifics, please see <u>www.dtsweb.com</u> or the SLICE User's Manual.



SLICE Bridge Sensor Interface

The schematic above outlines the general SLICE Bridge sensor interface. Specific implementation schematics begin on page 3 for the following sensor types:

- 4-wire bridge,
- 3-wire strain gage,
- 2-wire strain gage,
- switch closure,
- contact resistance,
- signal generator with floating output,
- signal generator with grounded output,
- Fluke 80TK, and
- large differential voltages.

If you need assistance, the best way to contact a DTS support engineer is to e-mail <u>support@dtsweb.com</u>. Please provide the sensor manufacturer and model if known.

SLICE NANO/MICRO Channels 1, 2 and 3



(looking into the connector)

Mating conn: DTS P/N 80000-04019 Omnetics P/N A18091-001

Conn + backshell: DTS P/N 13000-30310

Conn + backshell + ID: DTS P/N 13000-30120

Pin	Function
1	+ Sig
2	- Sig
3	+ Ex
4	+ ID
5*	- Ex
6*	- ID
7*	Shield

* Pins 5, 6 and 7 are common

4 (Ch 2

SLICE NANO

Channels 1-3

Ch 1

Ch 3

(looking into the connector)

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Mating conn: DTS P/N 80000-14031 Omnetics P/N A22038-001

Conn + backshell: DTS P/N 13000-30320

Conn + backshell + 3 IDs: DTS P/N 13000-30140

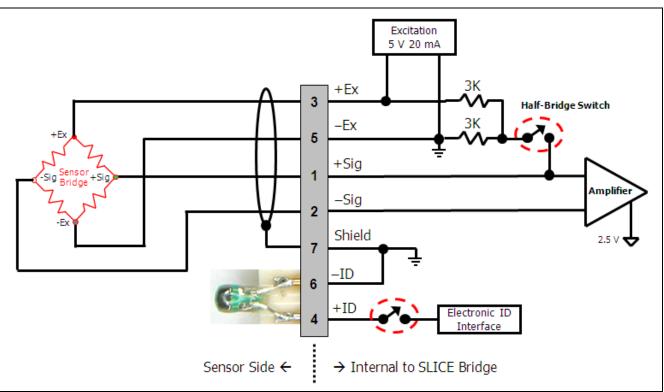
Pin	Function
1	+ Sig (Ch 1)
2	+ ID (Ch 1)
3	- Sig (Ch 2)
4	+ Sig (Ch 2)
5	- Sig (Ch 1)
6	+ Ex (Ch 1)
7	- Ex (Ch 1)
8	+ Ex (Ch 2)
9	+ ID (Ch 2)
10	+ Sig (Ch 3)
11	+ Ex (Ch 3)
12	- Ex (Ch 3)
13	- Ex (Ch 2)
14	- Sig (Ch 3)
15	+ ID (Ch 3)
16	- ID (Ch 1, 2, 3)/Shield

Accessories:

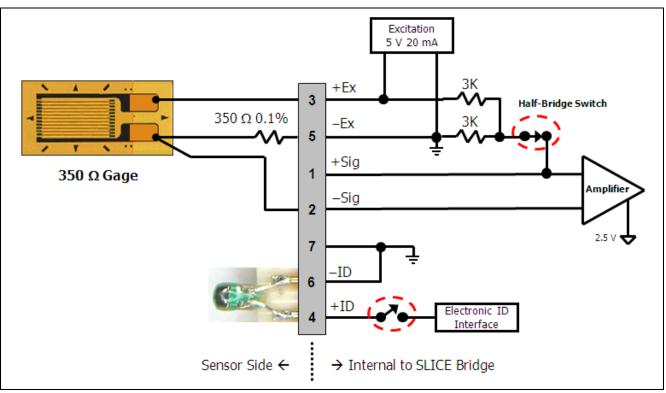
22005-00001: Microcard ID, DS2401X1 22007-00001: Microcard ID, DS2431

89100-1381A: Backshell, Omnetics; 7-pin (± ID) 22006-00001: Microcard ID, DS2401X1 + 1/2 br 89100-14090: Backshell, Omnetics; 16-pin (for 3 IDs) 89100-13850: Backshell, Omnetics; 16-pin (no IDs)

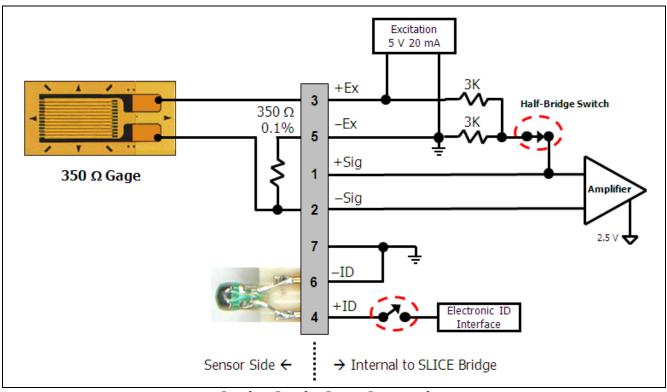
support@dtsweb.com +1 562 493 0158



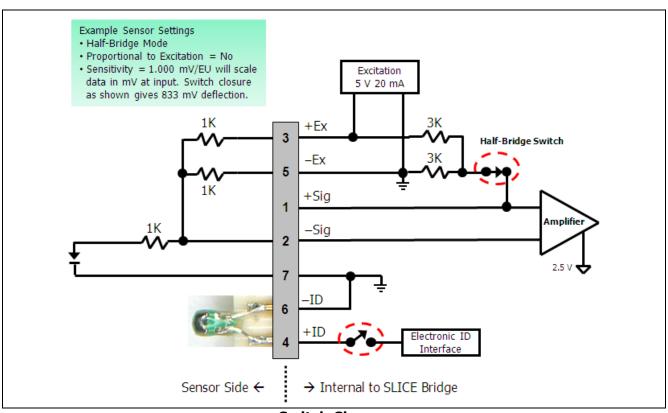
Standard 4-wire Bridge Connection



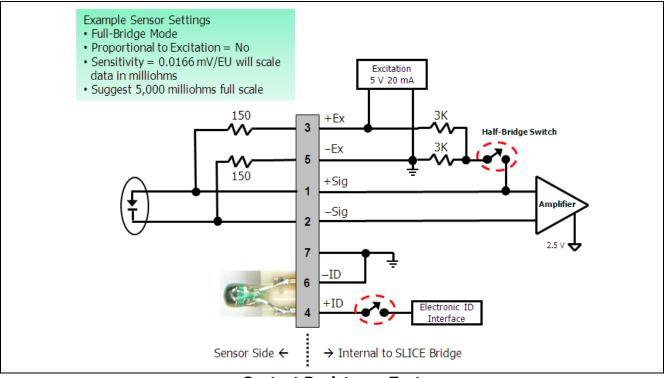
3-wire Strain Gage Connection



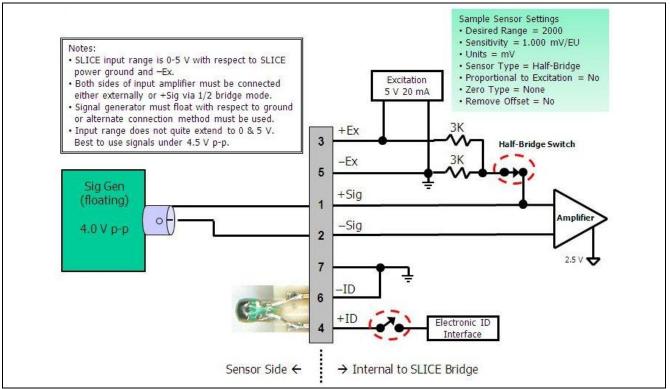




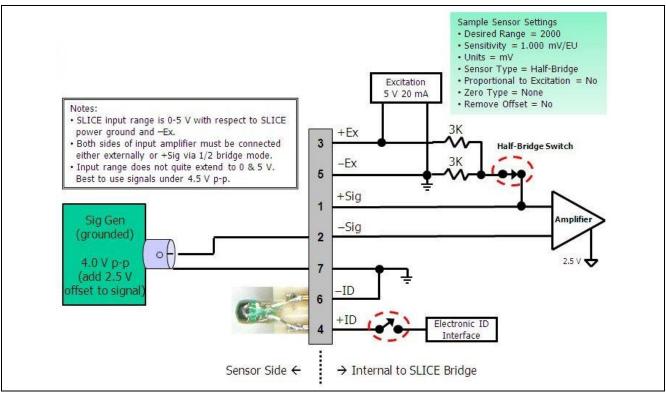
Switch Closure



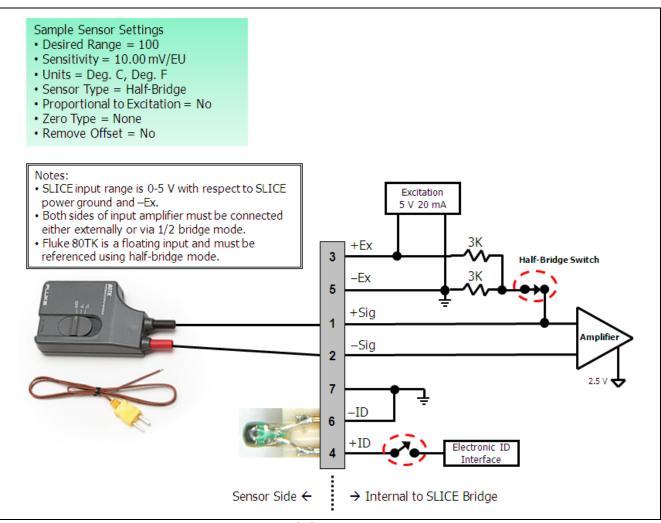
Contact Resistance Test



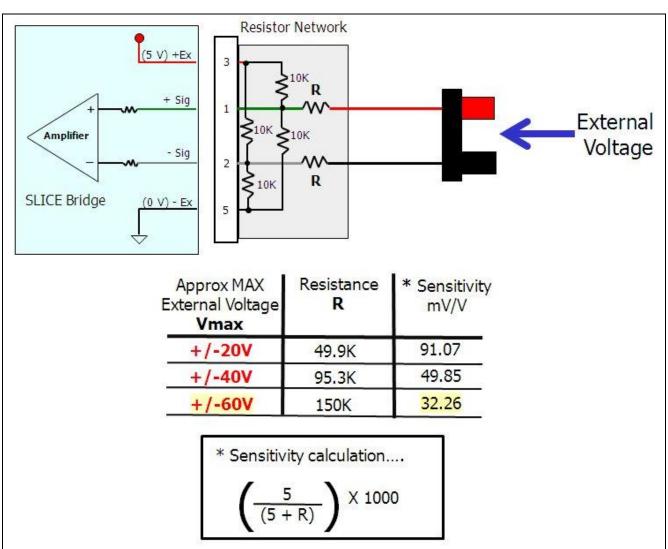
Signal Generator with Floating Output







Fluke 80TK



Measuring Large Differential Voltages

DTS provides cables to support the above voltage ranges. Connectorized options are available. Please contact DTS for further information.

Accessories:

15010-20000: Cable, Range Expander (20 V, all pigtail term) 15010-40000: Cable, Range Expander (40 V, all pigtail term) 15010-60000: Cable, Range Expander (60 V, all pigtail term)