

ESD PRECAUTIONS

Before removing unit from antistatic bag, attach a ground strap to protect your accelerometer. Antistatic handling precautions are HIGHLY recommended. The accelerometer will arrive in an ESD bag or case – we suggest keeping this for reference and future use.

INITIAL SETUP

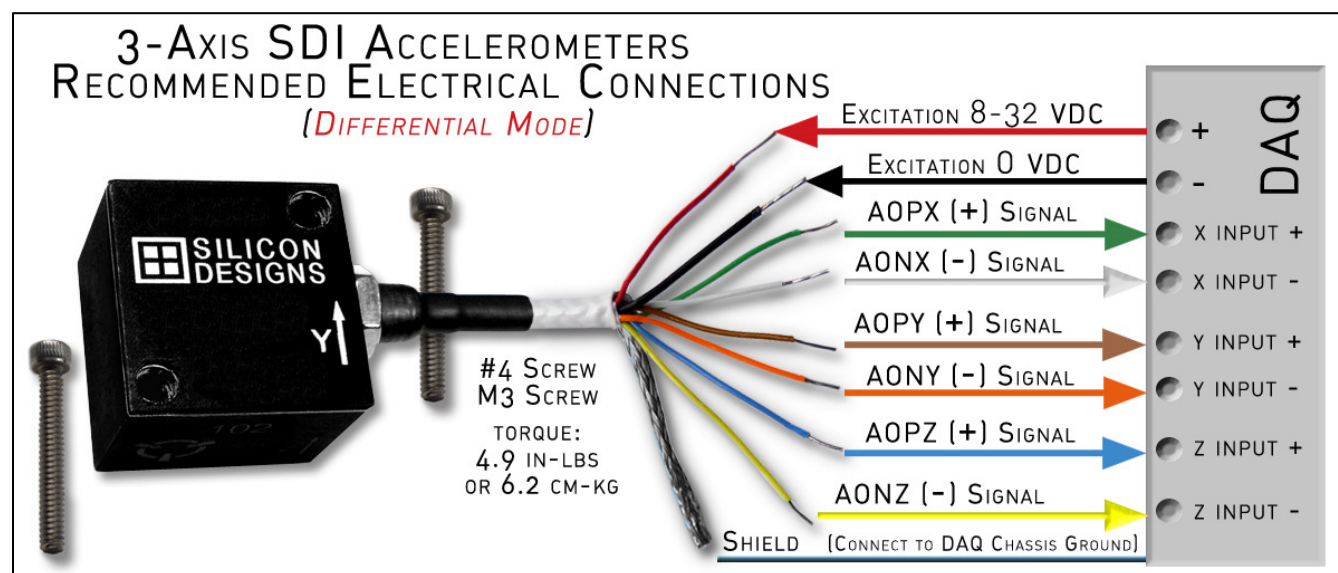
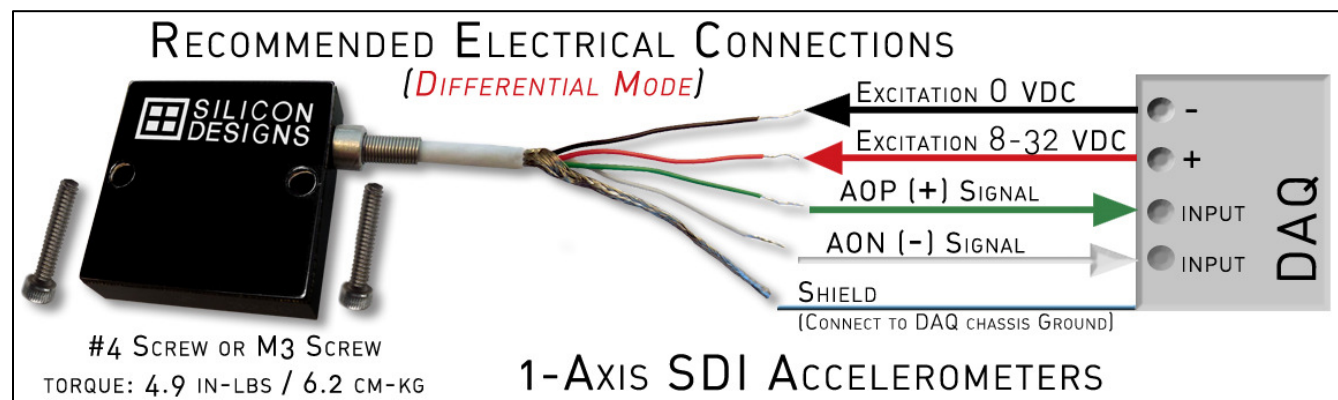
Attach your module to its intended location. The surface must be very flat and free of debris.

- Use a small drop of glue or epoxy
- Attached to a block or stud-type mount with screws or bolts
- Attach directly to the surface with screws and bolts
 - Make sure not to over-torque when using screws or bolts. Maximum values are below.

Before connecting the accelerometer wiring, make certain all equipment is turned off.

To configure the connections for DIFFERENTIAL MODE, use the diagrams below to connect the signal wires, then connect red wire, then black wire, then shield/ground wire.

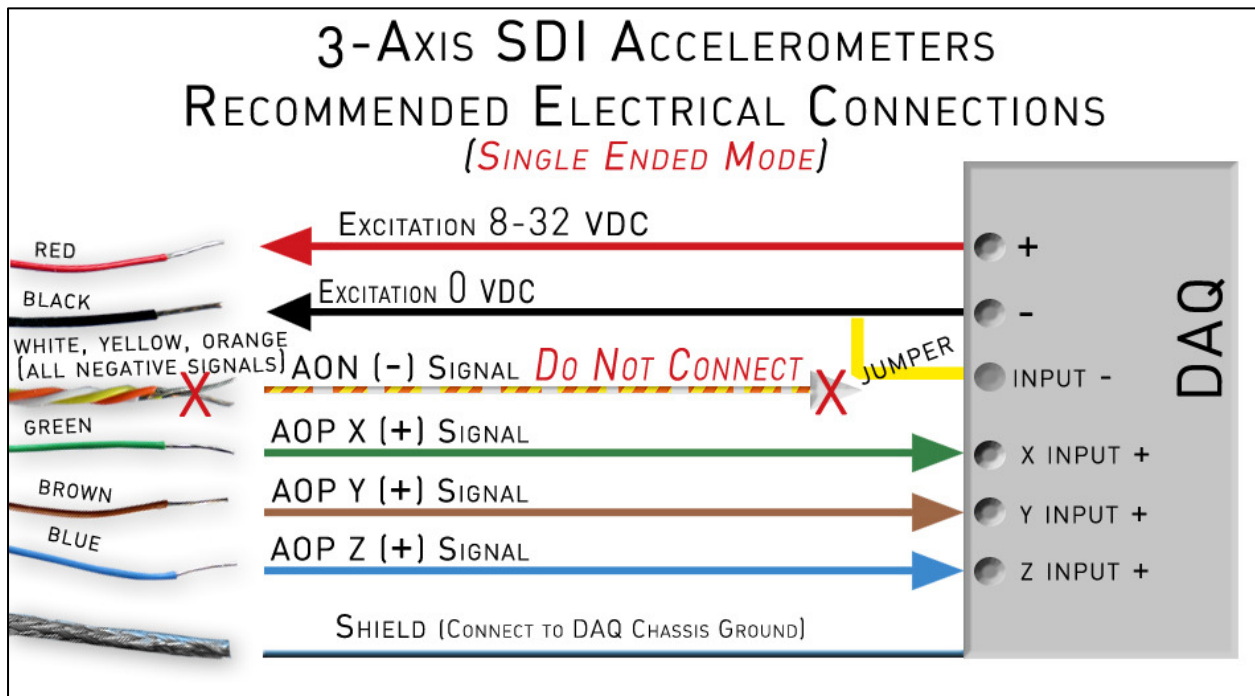
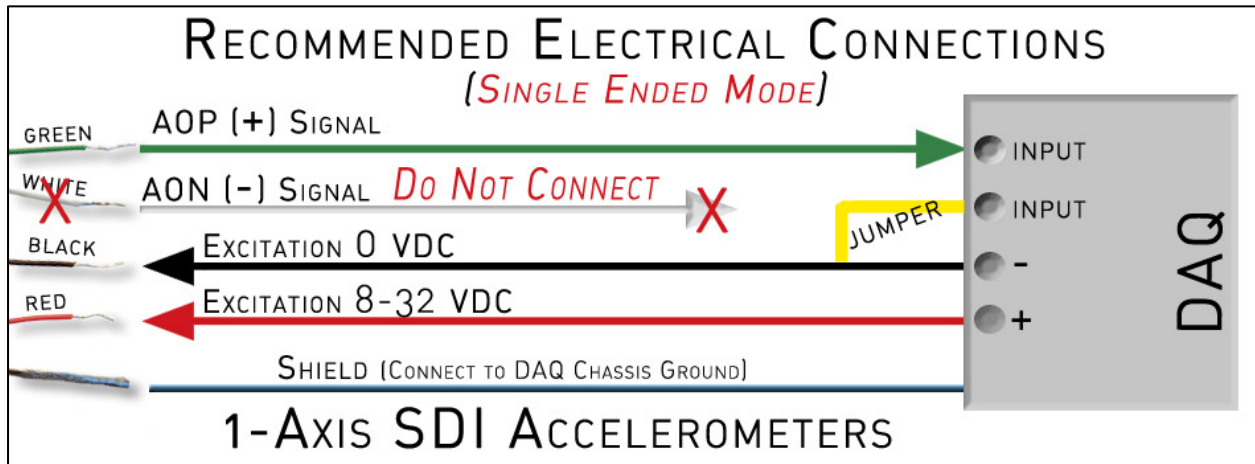
- Make sure your power source is appropriate for your SDI product. Some only require 5V DC. Excessive voltage will damage the accelerometer irreparably.



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To configure the connections for SINGLE ENDED MODE, do not connect the negative signal wires and use a jumper from the black wire to an unused negative signal input location on the DAQ that corresponds with the positive signal wire(s).



Set the data acquisition system to the appropriate range: ± 4 volts in differential mode, or .5 to +4.5 in single ended mode.

Dry torque values for non-plated screws

- 1/4-20 (for 2230 mounting block) / 6 ft-lbs
- M6x1 (for 2230 mounting block) / 100 kpsi
- #4-40 coarse thread / 4.9 in-lbs = 78 in-oz
- #4-40 coarse thread / 10 in-lbs = 160 in-oz
- 3 mm coarse thread / 6.2 cm-kg = 86 in-oz
- 3 mm coarse thread / 112.7 cm-kg = 176 in-oz

! For fine thread, increase these values by 9%

! For plated screws decrease torque to 66% of these values

! If lubricating oil is used, decrease torque to 40% of these values

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