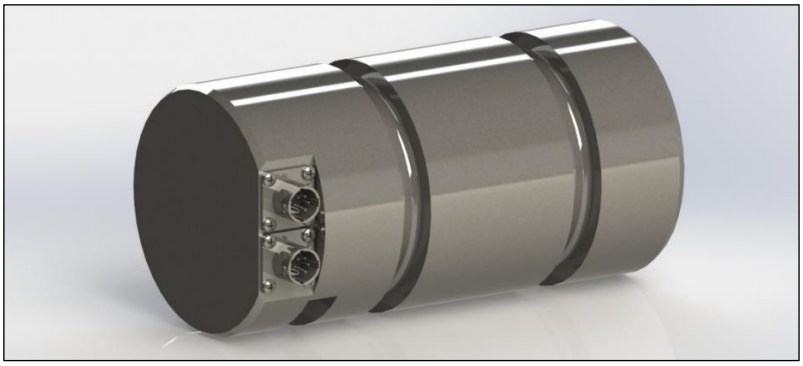
# *Strainsert Dual Bridge Clevis Pin Application Note*



### *Applications*

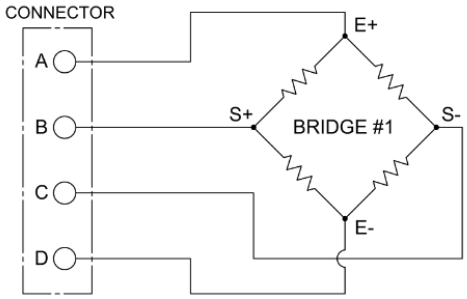
- *All typical Clevis Pin applications*

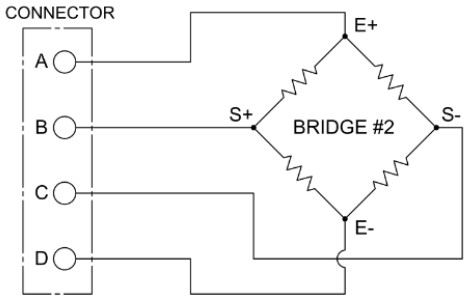
### *Description*

*Dual Bridge Clevis Pins provide two independent strain gage circuits. Dual Bridge transducers may use both bridges for simultaneous control and measurement or use a single bridge for measurement with the other bridge reserved as a spare.*

*Electrical terminations can be radial or axial using either single or dual connectors (dual shown below). Permanently attached cables can also be provided.*

| ***Dual Bridge Clevis Pin General Specifications*** | | ***Units*** |
|---|---|---|
| *Bridge Composition* | *Full* | |
| *Bridge Excitation* | *10 (typical), 12 maximum* | *VDC* |
| *Bridge Resistance* | *350 (nominal)* | *Ohms* |
| *Bridge Sensitivity* | *0.5 and higher* | *mV/V* |
| *Temperature, Zero Load* | *0.01% (nominal)* | *±F.S./°F* |
| *Temperature, F.S. Load* | *0.01% (nominal)* | *load/°F* |
| *Zero Balance* | *3.0% (nominal)* | *±F.S.* |
| *Non-Repeatability* | *0.25% (nominal)* | *±F.S.* |
| *Non-Linearity* | *1 % (nominal)* | *±F.S.* |
| *Hysteresis* | *1 % (nominal)* | *±F.S.* |
| *Safe Overload* | *150% (typical)* | *±F.S.* |
| *Ultimate strength* | *300% (typical)* | *±F.S.* |
| *Minimum Pin Diameter* | *1 (standard), 0.5 (with limitations)* | *inch* |
| *Material* | *17-4 Stainless Steel (typical)* | |




### *Contact*

*For documentation, tools, and support, or to discuss your application with one of our engineers, please call 610-825-3310, email info@strainsert.com, or complete a questionnaire using one of the following links:*

1. *Clevis Pin (https://www.strainsert.com/questionnaire-clevispin-rt/)*
2. *Clevis Pin, Sheave Installation (https://www.strainsert.com/questionnaire-sheavepin-rt/)*