Applications:
Very high current sensing on Bus Bars and /or Flat conductors

Operation:
Output voltage can be measured between A-OUT1 and CO-OUT1 for a differential output or between A-OUT1 and GND for single ended output. Current in the direction shown, will produce a positive going output. Current in the opposite direction will produce a negative going output. AC current will produce an AC analog output. The output sensitivity, level (mV/amp) depends on the width and thickness of the bus bar. Some examples of sensitivities are listed below: Supply voltage, VDD, and output are protected with 5.6 volt zeners

<table>
<thead>
<tr>
<th>Width x Thickness (mm)</th>
<th>AN_109KIT Sensitivity</th>
<th>Full scale Current (amps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 x 6</td>
<td>≈ 7.2 mV/amp</td>
<td>330</td>
</tr>
<tr>
<td>20 x 4</td>
<td>≈ 6.4 mV/amp</td>
<td>375</td>
</tr>
<tr>
<td>30 x 6</td>
<td>≈ 4.8 mV/amp</td>
<td>500</td>
</tr>
<tr>
<td>40 x 4</td>
<td>≈ 3.9 mV/amp</td>
<td>615</td>
</tr>
</tbody>
</table>

Spare CSA-1V-S0

Direction of Current flow

Top View

Bottom View

Single Ended Output
Full scale output
2.5 V +/- 2.5Volts

Differential Output
Full scale output
0 V +/- 2.5Volts

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