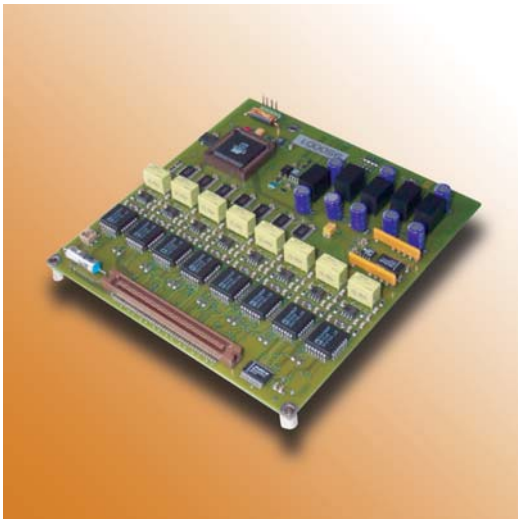
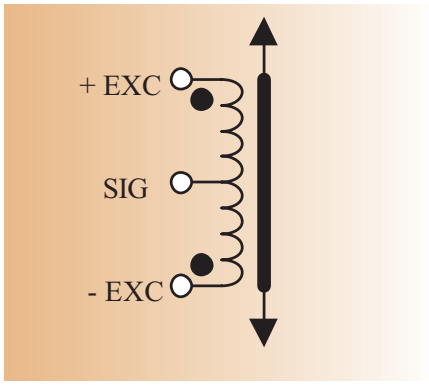
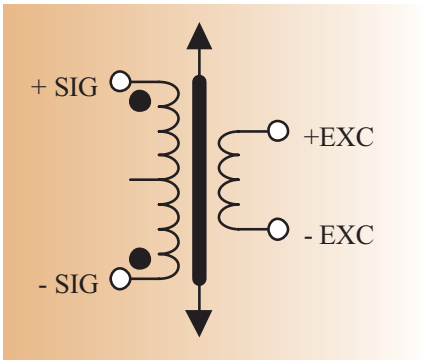
LVDT AC-STG-8



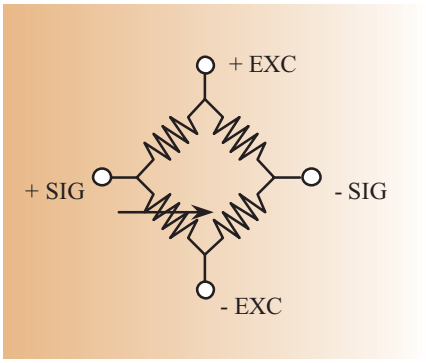
Supported Sensors



Half-Bridge LVDTs



N-Series Opposed LVDTs



AC (Full-) Bridge

No phase correction:

Phase shifting (caused by unbalanced sensors or cables) results in constant gain errors. These gain errors can be eliminated with a standard sensor Calibration.

Technical data:

- **8 Channels / 16 Bit**
- **Sensor supply:**
  - Frequency: 5kHz Sinus
  - +/-100 Hz, +/-200ppm/°C
  - Excitation Voltage: 2.5V RMS +/-0.15 V
  - Excitation Voltage Drift: 100ppm/°C
  - Max. Excitation Current: 20mA RMS
  - Short Circuit proof (Short Circuit Current = 60mA)
- **Supported Sensor Types:**
  - Half-Bridge LVDTs
  - Series Opposed LVDTs
  - AC (Full-) Bridge
- **Input Ranges:**
  - 1.0 mV/V - 1.0 V/V
  - steps 1, 2, 5, 10
- **Bandwidth:**

-3dB / typ. 500 Hz (max. 1 kHz)

- **Performance:**
  - With on board calibration less than 0.05 %
  - Resolution: 16 Bit
  - Linearity: 0.05 %
  - Gain Drift: 25 ppm/°C
  - Offset Drift: 10 ppm/°C
- **Working temperature area:**

-20°C ... +60°C

- **Calibration intervall 12 months**
- **Filter as STG-8/-L**

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