

Sensorex®

DIN box strain gauge conditioner SX3310



Characteristics

- Power supply 24VDC ± 8 VDC
- Transducer excitation 5VDC or 10VDC
- Output signal 0/10V or ± 10 V and 4–20mA
- Wiring transducer 4 or 6 wires

Contact

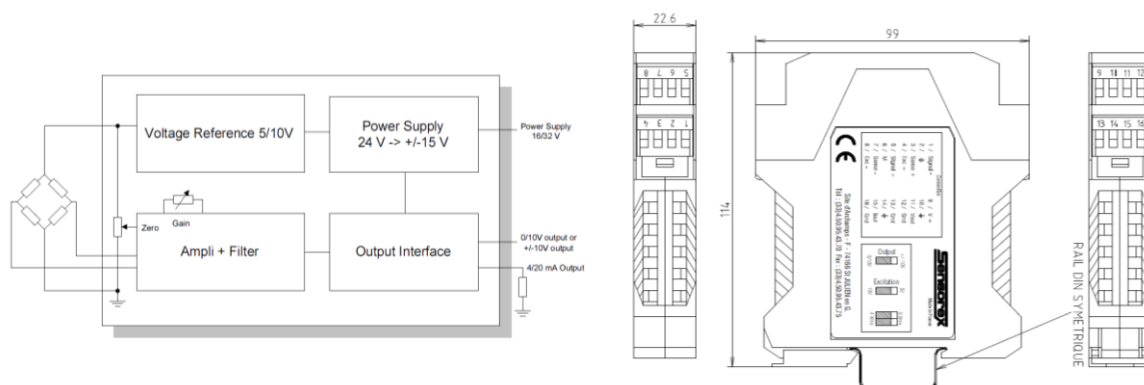
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SX3310 module is a strain gauge conditioner with very low bridge impedance (down to 120 ohms).

This module has a very simple and practical zero and scale adjusting with dip-switches and potentiometer.

Connections for power supply, transducer and output signals are made by screw terminals to facilitate maintenance and installation.

This industrial unit in polyamide PA PHOENIX EM type may be plugged into any common DIN EN track (EN 50022 standard).



Meggitt Sensing Systems

Our measurement product competencies:
LVDTs | Inertial systems | Inclinoimeters | Accelerometers | IMU |
MEMS sensors | Servo-inclinometer | Conditioners

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Mechanical & environmental characteristics

| | |
|--------------------------------|---------------------|
| Fixing | Track DIN EN 50022 |
| Dimensions (mm) | 115x100x23 |
| Box material | polyamide PA |
| Connecting | Screw terminal |
| Protection | IP 20 |
| Inflammability | VO (UL94) |
| Vibrations | 2g (white noise) |
| Weight | Approximately 130 g |
| Operating temperature | 0°C to +70°C |
| Storage temperature | -40°C to +85°C |
| Temperature stabilization time | 15 minutes |

Electrical specifications at +25°C

| | |
|---|---|
| Power supply | |
| Power supply | 24VDC \pm 8VDC |
| Maximum consumption | 150mA |
| Strain gauge excitation | 5VDC or 10VDC |
| Strain gauge | |
| Mini. impedance for 5VDC excitation | 80 Ω |
| Mini. impedance for 10VDC excitation | 120 Ω |
| Sensitivity | 0.3 to 12mV/V |
| Input amplifier | |
| Current | 5nA |
| Impedance | 10 ¹⁰ ohms typical |
| Gain | |
| Maximum | 8500 |
| Minimum | 80 |
| Zero | |
| Maximum for a 120 ohms impedance | \pm 3.25mV/V |
| Filter (3rd order) | |
| Maximum | 5000Hz \pm 10% |
| Minimum | 3Hz \pm 10% |
| Voltage output | |
| Maximum non linearity | Gain=1000/ \pm 0.001% of Full Scale |
| Short circuit current | \pm 22mA |
| Outputs | 0/10V or \pm 10V |
| Current output | |
| Maximum non linearity | \pm 0.015% of Full Scale |
| Impedance | 40M Ω typical |
| Load resistor (for 16VDC power supply) | 600 Ω max. |
| Thermal drift/ Input offset voltage drift | \pm 2.10 ⁻⁸ x gain ppm/°C/FS |
| Sensitivity | 150ppm of signal/°C |

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Selection guide

Product reference 690 223 310 /SX3310 alarm version : 690 210 326

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