

# DIN BOX STRAIN GAUGE CONDITIONER : SX 3310 SERIES



## GENERAL DESCRIPTION

The 3310 module is a strain gauge conditioner admitting very low bridge impedance (down to 120 Ohm). This module has a very simple and practical adjusting of zero and scale with dip-switches and potentiometer.

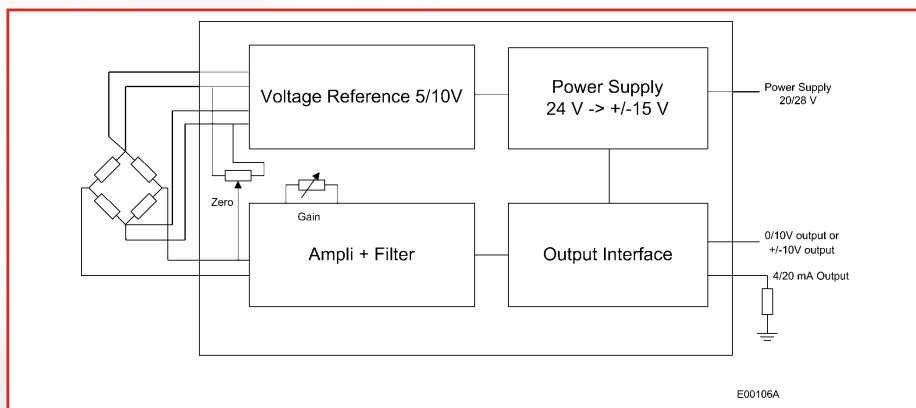
Connections for power supply, transducer and output signal are made by screw terminals or plug to facilitate maintenance and for easy installation.

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

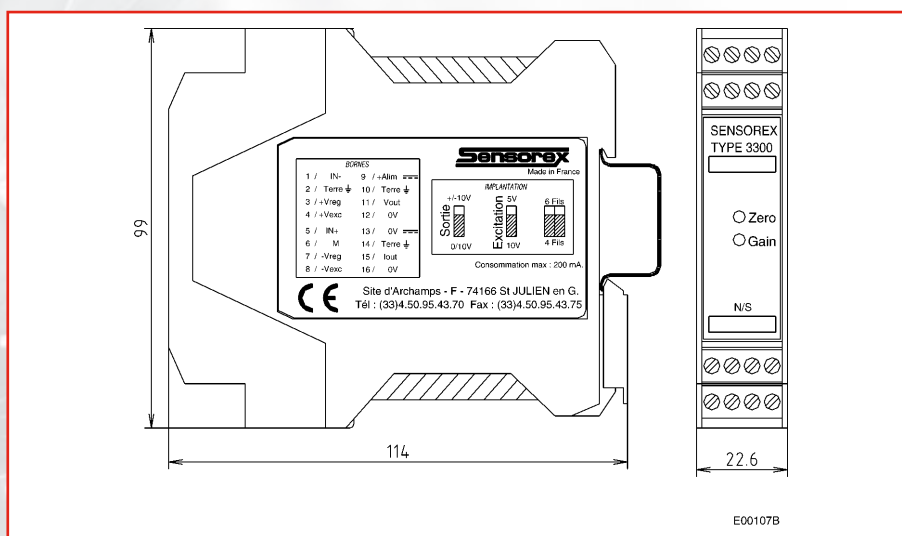
## MAIN CHARACTERISTICS

Power supply	24 VDC
Transducer excitation	5 or 10 VDC
Output signal	0/10 V or $\pm 10$ V and 4-20 mA
Wiring transducer	4 or 6 wires
threshold option (alarm)	Cf. Sensorex réf. 690 210 326

## SYNOPTIC



## INTERFACE DRAWING



## MECHANICAL CHARACTERISTICS (AT 25°)

Fixture	track DIN EN 50022
Dimensions	115 x 100 x 23 (mm)
Box material	polyamide PA
Junction	screw terminals
Protection	IP 20
Inflammability	VO (ULGA 94)
Vibration	2 G (white noise)
Weight	130 g approx.
Operating temperature	0° to 70°C
Storage temperature	- 40 to + 85 °C
Temperature stabilization time	15 mn

## ELECTRICAL CHARACTERISTICS (AT 25 °)

<b>Power supply</b>	
Power supply 24 VDC	24 ± 4 VDC
Consumption	200 mA max
Excitation of strain gauge	5 or 10 VDC
<b>Strain gauge</b>	
Impedance	120 Ohm mini
Sensibility	0.3 to 12 mV/V
<b>Input amplifier</b>	
Current	5 nA
Impedance	10 <sup>10</sup> Ohm typ.
<b>Gain</b>	
Maximum	8500
Minimum	80
<b>Zero</b>	
Maximum for an impedance of 120 Ohm	± 3.25 mV/V
<b>Filter (3rd order)</b>	
Maximum	5000 Hz ± 10 %
Minimum	3 Hz ± 10 %
<b>Current output</b>	
Non linearity maximum	G = 1000 ± 0,001 % of FS
Output short circuit current	± 22 mA
Output	0/10 V or ± 10 V
<b>Output current (4-20 mA)</b>	
Non linearity maximum	± 0,015 % of FSO
Impedance	40 MOhm typ.
Load resistor	800 Ohm max.
<b>Thermal drift (± 10 V)</b>	
Input offset voltage drift	± 0,2 ± 5/G µV/°C typ.
Sensibility	150 ppm/°C of signal

## WIRING

