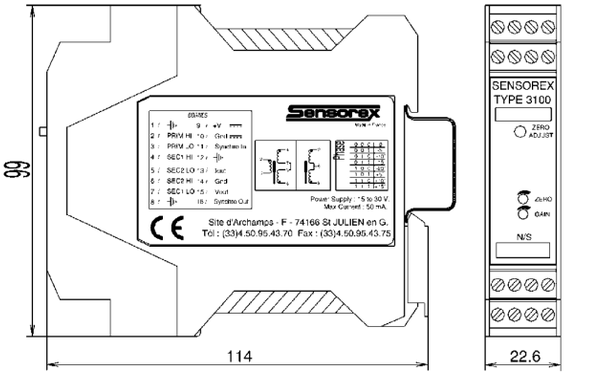
AMOS
Sensoren & Meßtechnik

SX3120 series

DIN box inductive transducer conditioner

Interface drawing



Description

The Meggitt (Sensorex) SX3120 module is an inductive transducer conditioner (LVDT, RVDT and half bridge).

This module has a very simple and practical zero and scale adjusting with dipswitch and potentiometers.

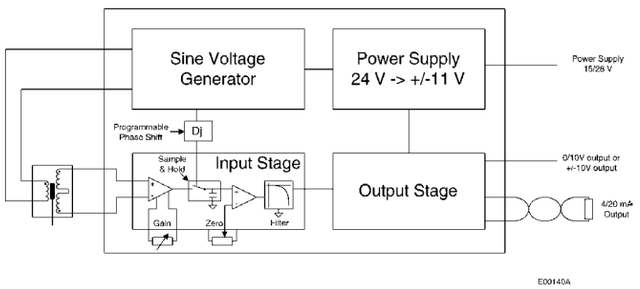
Connections for power supply, transducer and output signals are made by screw terminals to facilitate maintenance and installation.

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

General characteristics

Power supply	24Vdc
Transducer excitation	
- Frequency	3.5kHz or 5kHz
- Sine voltage	1.1Veff or 2.2Veff
Output signal	0/10V or ±10V and 4-20mA
Phase shift	-20° to +15°
Synchronization	master/ slave

Synoptic



AMOS Sensoren & Meßtechnik
C2, 21
D- 68159 Mannheim / Germany

Tel. : 0621- 86 25 25 - 0
Fax. : 0621- 86 25 25 - 5
Funk: 0171- 83 91 83 5

Bankverbindung : Kreissparkasse
Konto : 700344 BLZ : 545 50120
Geschäftsinhaber : Amos Engel
Ust. ID Nr. : DE 180 157 533

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Mechanical and environmental characteristics

Fixing	Track DIN EN 50022
Dimensions (mm)	115x100x23
Box material	Polyamide PA
Connecting	Screw terminal
Protection	IP 20
Inflammability	VO (UL94)
Vibration	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

General specification at +25°C

Power supply	15VDC to 28VDC
Max. consumption	50mA
Max. gain	33
Min. gain	0.2
Bandwidth (second order filter)	400Hz
Voltage output	0-10VDC or ±10VDC
Output short-circuit current (voltage output)	max. ±22mA
Non linearity (voltage output)	max. ±0.04% of FS
Electrical noise (voltage output)	15 mV (peak to peak)
Current output	4-20mA
Load resistor (current output)	max. 600Ω
Output impedance (current output)	max. 40MΩ
Oscillator frequency	3.5kHz or 5kHz ±20%
Oscillator sine voltage	1.1Veff or 2.2Veff ±10%
Oscillator primary impedance	min.140Ω at 2.2Veff or min. 60Ω at 1.1Veff
Excitation frequency thermal drift	100ppm/ °C typical
Sensitivity thermal drift	100ppm/ °C
Zero thermal drift	100ppm/ °C

Selection guide

Product reference: 690 223 120

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