Electronic Controller for Electromagnetic Vibrator

▶ FQ2NG

8A | 80V 250V | 0/10V 0/20mA | *option* Modbus

General

Professional digital microprocessor controller with frequency and amplitude display – Start or stop delay of the vibrator via PNP sensor or mechanical contact (material presence), adjustable up to 20 seconds – 0–10 V automatic input – Status relay – Second PNP sensor – Air blow – Part-flow alarm – Alarm lamp.

General characteristics

Voltage 80V/250V, 50/60 Hz • ON/OFF input • Ramp (0 ÷ 5 sec) • Digital adjustment of minimum/maximum vibration and frequency (5–180 Hz) • Part-flow alarm • Delayed air blow (0 ÷ 2 sec) • Alarm lamp.

Applications

Digital adjustment of amplitude and frequency for linear vibrators and medium-sized circular vibrators up to 6 A – Used to optimize vibrator performance even when mechanical tuning is not perfect – Suitable for vibrators tuned to 50 Hz operating in markets with 60 Hz frequency – Applicable in systems with LINEAR, CIRCULAR, VIBRATING HOPPER, or ELEVATOR.

Options

Customized label • Connector for vibrator • Vibrator control with dual track (2 PNP sensors) • Custom SW

Technical Specs

Tension of Feeding:	80V/250V ± 5% 50/60Hz
Consumption::	2,5W max
Max Current:	6A (RMS)
Min. Load	50 mA (RMS)
Frequency of Vibration:	5/140 Hz
Time of Ramp:	0/20 sec.
Regulation Min./Max:	50V ± 30% - 200V - 30%
On/Off:	Free contact - signal voltage
Air Blow Delay:	20 sec.
Sensors Input:	Optoisolated NO/NC NPN/PNP
Sensors::	PNP - PNP1 (0 ÷ 20 sec.)
Automatic Input:	0/10V - 0/20 mA
Temperature of Storage:	-10 °C /+80 °C
Temperature of Operation:	-5 °C / + 55 °C
Relative Humidity Range:	80% up to 31 °C
Altitude:	Up to 2000 meters
Degree of Protection:	IP55 in box
European Norms:	EMC CE
Warranty:	12 months (from date on circuit)



METALLIC BOX FQ2NG
PV FQ2NG Z2 006
100x250x105

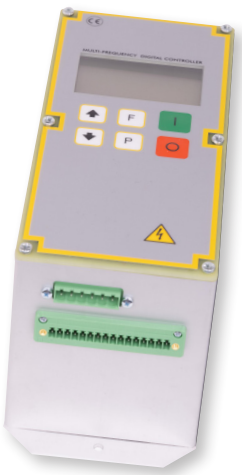


SENSOR SIND3
PV SIND3 A2 STD

▶ FQ2NG-M06

opzione

Amp. 10/16 | 115V 230V | 0/10V 0/20mA | Modbus

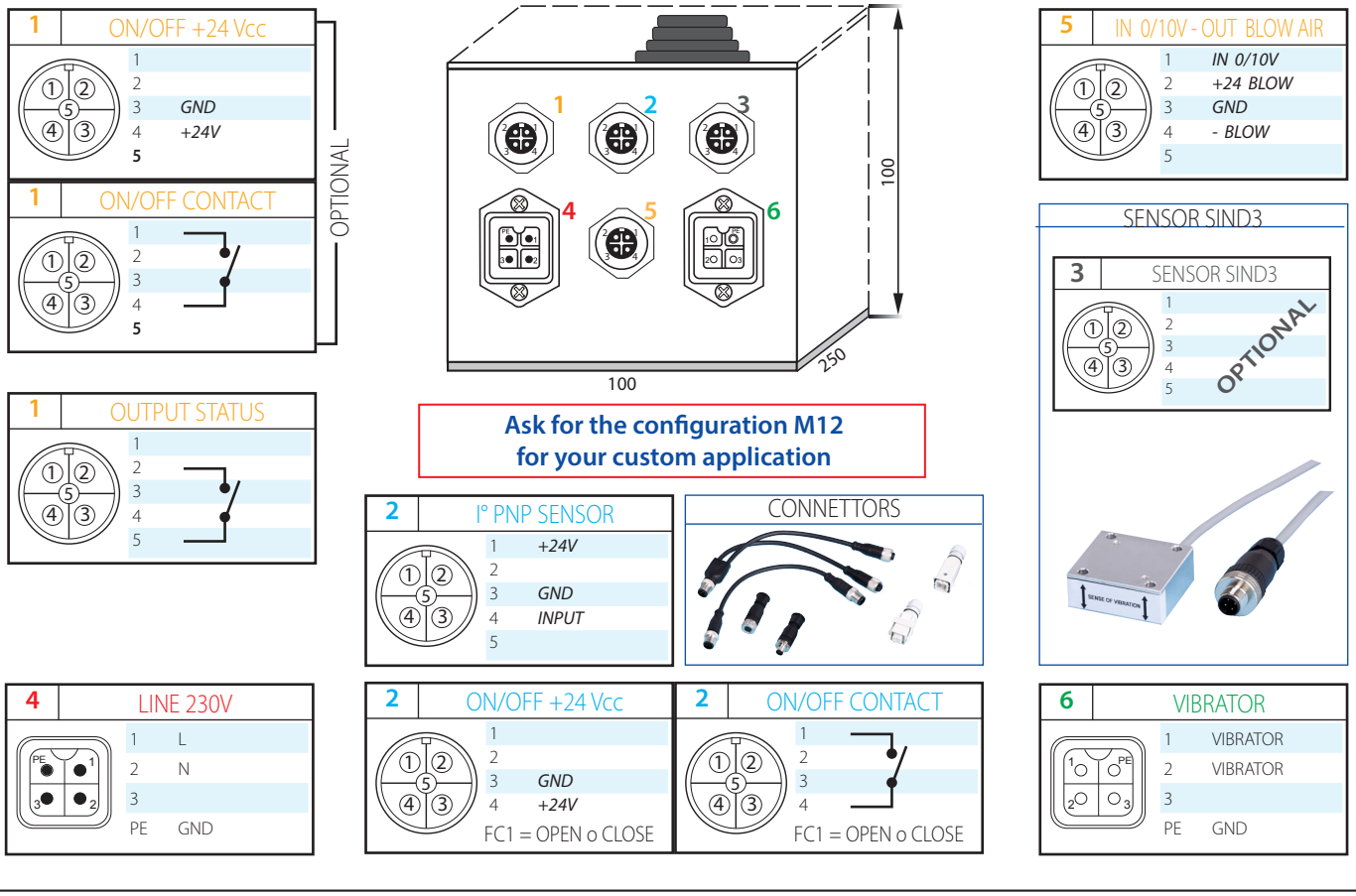


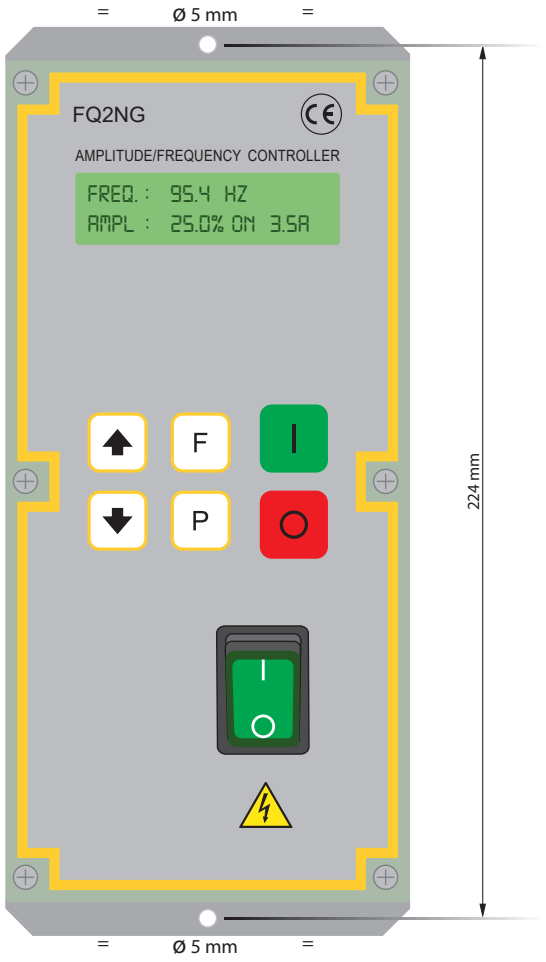
METALLIC BOX FQ2NG-M06
PV FQ2NG Z2 M06
100x240x105

Available versions

Type	Box	Colour	Dimensions	Code	Price
FQ2NG	Aluminium	GRAY	100 x 250 x 105	PV FQ2NG Z2 006	
FQ2NG	Aluminium	GRAY	100 x 250 x 105	PV FQ2NG Z2 008	
FQ2NG	Aluminium	GRAY	100 x 240 x 105	PV FQ2NG Z2 M06	
FQ2NG	Aluminium	GRAY	100 x 240 x 105	PV FQ2NG Z2 M08	
SENSOR SIND 3	Aluminium		45 x 43 x 19	PV SIND3 A2 STD	

CONNECTIONS





STANDARD MODEL

Digital controller FQ2NG 6 Amp with connectors M12

❺PNP1 *(ON/OFF)*

Connector *M12 on request*

Input	: *2° PNP sensor*
Output	: *signal +24V (2° PNP)*
Input	: *consent 1-2 conn J5*
Output	: *signal status +24V - status relay*
Output	: *blow air +24V*
Output	: *time out +24V* product missing/*alarm*

NOTE: is possible to use INPUT/OUTPUT available on terminal J4 with or without connector M12.
Ask for the configuration M12 for your custom application.

NORMS OF GUARANTEE

1) The controller is guaranteed for a period of 1 year from the date shown on the inside.

2) The guarantee covers the free replacement or repair of components parts that are defective at origin for manufacturing errors.

3) The guarantee is not valid for damage caused accidentally due to improper use or negligence and in case of alterations or repair carried out by unauthorized persons.

Design and specifications could be subjected to change without notice.