Multi-frequency electronic controller for electromagnetic vibrators

▶ FQ3NG

6A | 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) up to a maximum of 20 seconds, adjustable – 0–10 V automatic input – Status relay – Second PNP sensor – Air blow – Part-flow alarm.

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)

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 • Custom SW • Vibrator control with dual track (2 PNP sensors)

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:	5/200 Hz (5/300Hz on request)
Time of Ramp:	0/5 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
FQ3NG
PV FQ3NG Z2 GFC
100x185x105



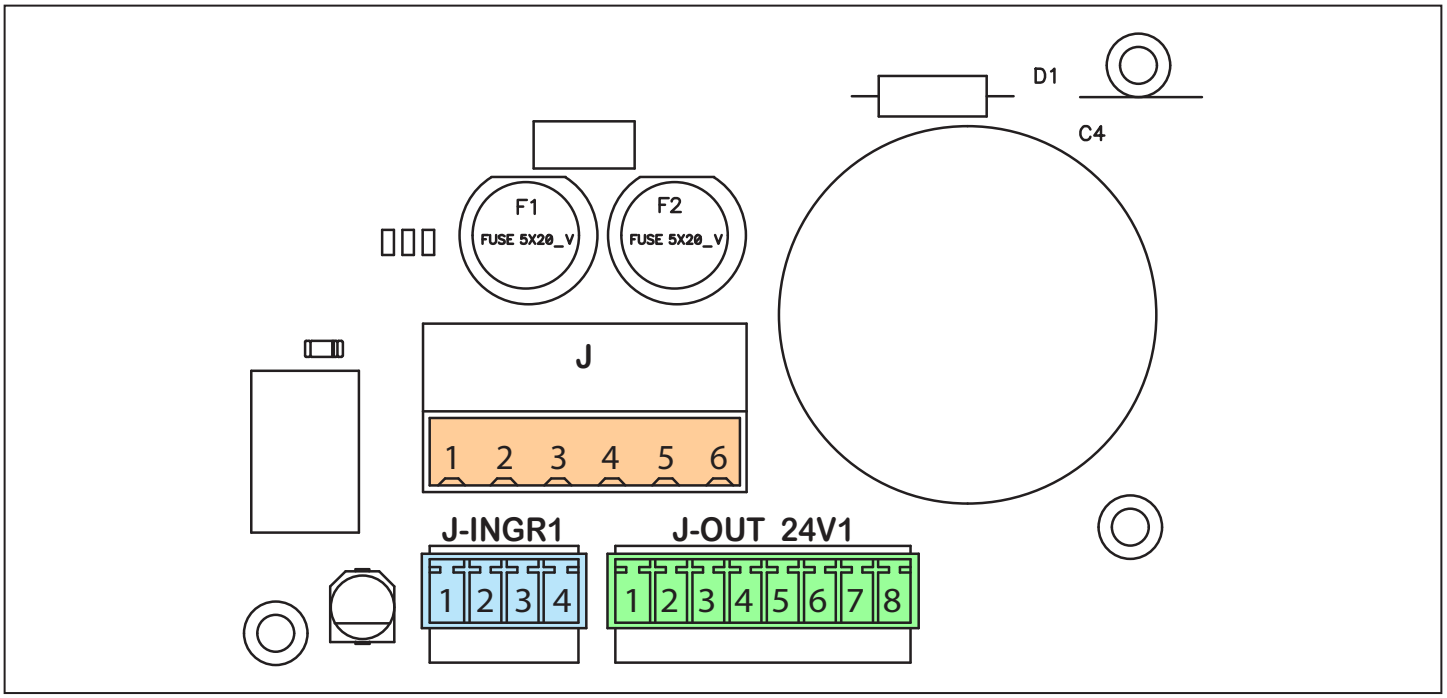
SENSOR SIND3
PV SIND3 A2 STD



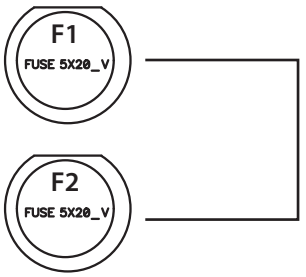
METALLIC BOX
FQ3 LCD
PV FQ3NG Z2 LCD
100x185x105

Available Versions

Type	Box	Colour	Dimensions	Code	Price €
FQ3NG	Aluminum	GREY	100 x 225 x 105	PV FQ3DI Z2 GFC	
FQ3NG	Aluminum	GREY	100 x 185 x 105	PV FQ3NG Z2 GFC	
FQ3NG	Aluminum	GREY	100 x 185 x 105	PV FQ3NG Z2 LCD	
SENSOR SIND3	Aluminum		45 x 43 x 19	PV SIND3 A2 STD	



J - *Supply voltage AC and output vibrator*		**J-INGR1** - *Enable and sensors*		**J-OUT** - *output (+24V) and input 0-10V*	
1.	La AC	1.	+24V	1.	Blow Air
2.	GND	2.	Enable	2.	
3.	N AC	3.	PNP1	3.	GND
4.	Vibrator	4.	GND	4.	Alarm
5.	GND	5.		5.	Out Status
6.	Vibrator	6.		6.	GND
7.		7.		7.	Contact ENABLE
8.		8.		8.	



SUPPLY FUSE : 5X20 6,3A F 250V