

Electronic Controller for Electromagnetic Vibrator

FQ1NG Amp. 10/12/15 115V 230V 0/10V 4/20mA

General

Microprocessor digital professional controller with visualized frequency and amplitude.

General Characteristics

Voltage (110V) 230V, 50/60 Hz • Input ON/OFF • Soft/Fast ramp (0 ÷ 5 sec.) • Digital Regulation amplitude/frequency min/max(5-140Hz) • Digital menu • Line input with schuko plug • Vibrator output with connector - Delay EV air blow (0 ÷ 2 sec.) - Alarm absence pieces (0 ÷ 180 sec.) - Lamp alarm (24Vcc)-Delay 20 sec max On/Off vibrator with sensor PNP or relay contact - Automatic input 0/10V-0/20mA - Status relay - 2° PNP sensor - EV air blow .

Applications

Digital regulation of linear and bowl feeder till 10/12/15 Amps - The FQ1NDIG allows optimizing operation of the vibratory feeder by searching for its resonance frequency (max performance) thereby eliminating its lengthy and difficult mechanical calibration - Enable input for multiple electromagnetic system (linear - blow feeder - hopper).

Options

Customized label and Software • Connector for vibrator.

Technical Specs

Feeding Tension:	(115) 230V ± 5% 50/60Hz
Consumption:	2,5W max
Max Current:	10A - 12A - 15A (RMS)
Min Load:	50 mA (RMS)
Frequency:	5/200 Hz (5/300Hz on request)
Time of Ramp:	0/5 sec.
Min./Max:	50V ± 30% - 200V - 30%
On/Off:	Free contact - signal voltage
Hair Blow Delay:	2 sec.
Sensors Input:	Optoisolati NO/NC NPN/PNP
Sensors:	PNP - PNP1 (0 ÷ 20 sec.)
Automatic Input:	0/10V - 4/20 mA
Temperature of Storage:	-10 °C /+80 °C
Temperature of Operation:	-5 °C / + 55 °C
Range of Relative Humidity:	80% till to 31 °C
Altitude:	Till to 2000 Meters
Degree of Protection	IP55 in box
European Norms:	EMC CE
Warranty:	1 year (from date on circuit)

Available Versions

Type	Box	Colour	Dimensions	Code	Price €
FQ1NG	Metallic	GRAY	100 x 180 x 190	PV FQNGX Z2 STD	
FQ1NDIG	Metallic	GRAY	100 x 180 x 190	PV FQNDI Z2 STD	
SENSOR SIND3	Aluminium		45 x 43 x 19	PV SIND3 A2 STD	



METALLIC BOX FQ1NG
PV FQNGX Z2 STD
100x180x190



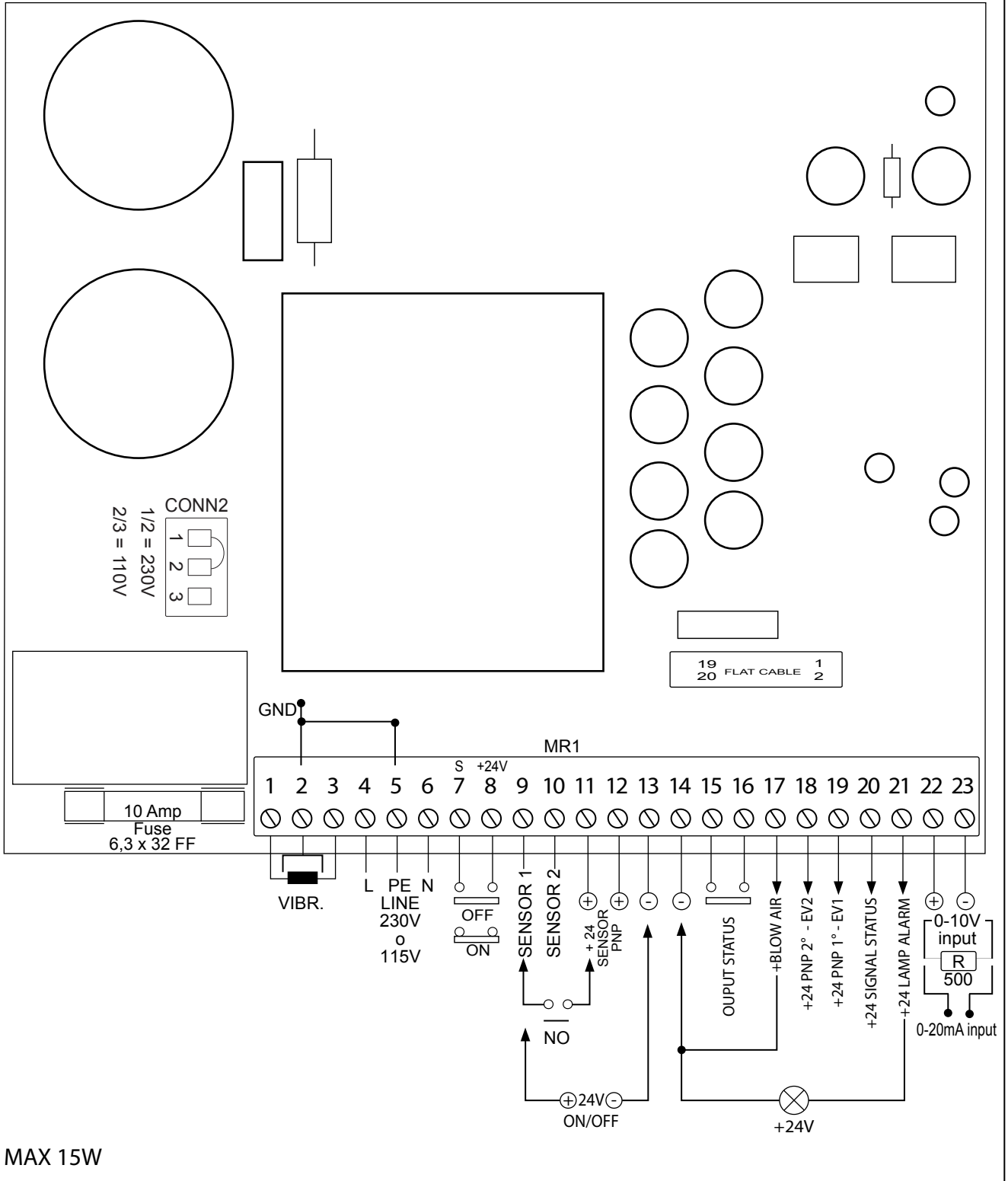
SENSOR SIND3
PV SIND3 A2 STD

FQ1N DIG



METALLIC BOX FQ1N DIG
PV FQNDI Z2 STD
100x180x190

FLAT CABLE: MAX 0.5 METER



MAX 15W

RIF. N° CONN1	DESCRIPTION
1-3	VIBRATOR
2-5-22	GND
4-6	LINE 230V o 115V 50/60Hz
7-8	ENABLE INPUT NC=ON - NO=OFF
21-22	INPUT 0/10V - (0/20mA WITH R500)



Descrizione: ELECTRONIC CIRCUIT FQ1N DIG MAIN BOARD

CODE	REV	DATE	DRAFTSMAN	SHEET
DTFQ1N MAINBOARD	00	11/11	E. PEDRAZZI	1/1