Electronic Controller for Electromagnetic Vibrator

FQ1N DIG

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

END OF LIFE

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 – Alarm lamp.

General Characteristics

Voltage 110V/230V, 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 10/12/15 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 – Suitable for systems with LINEAR, CIRCULAR, VIBRATING HOPPER, or ELEVATOR.

Options

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



METALLIC BOX
FQ1N DIG
PV FQNDI Z2 STD
100x180x190



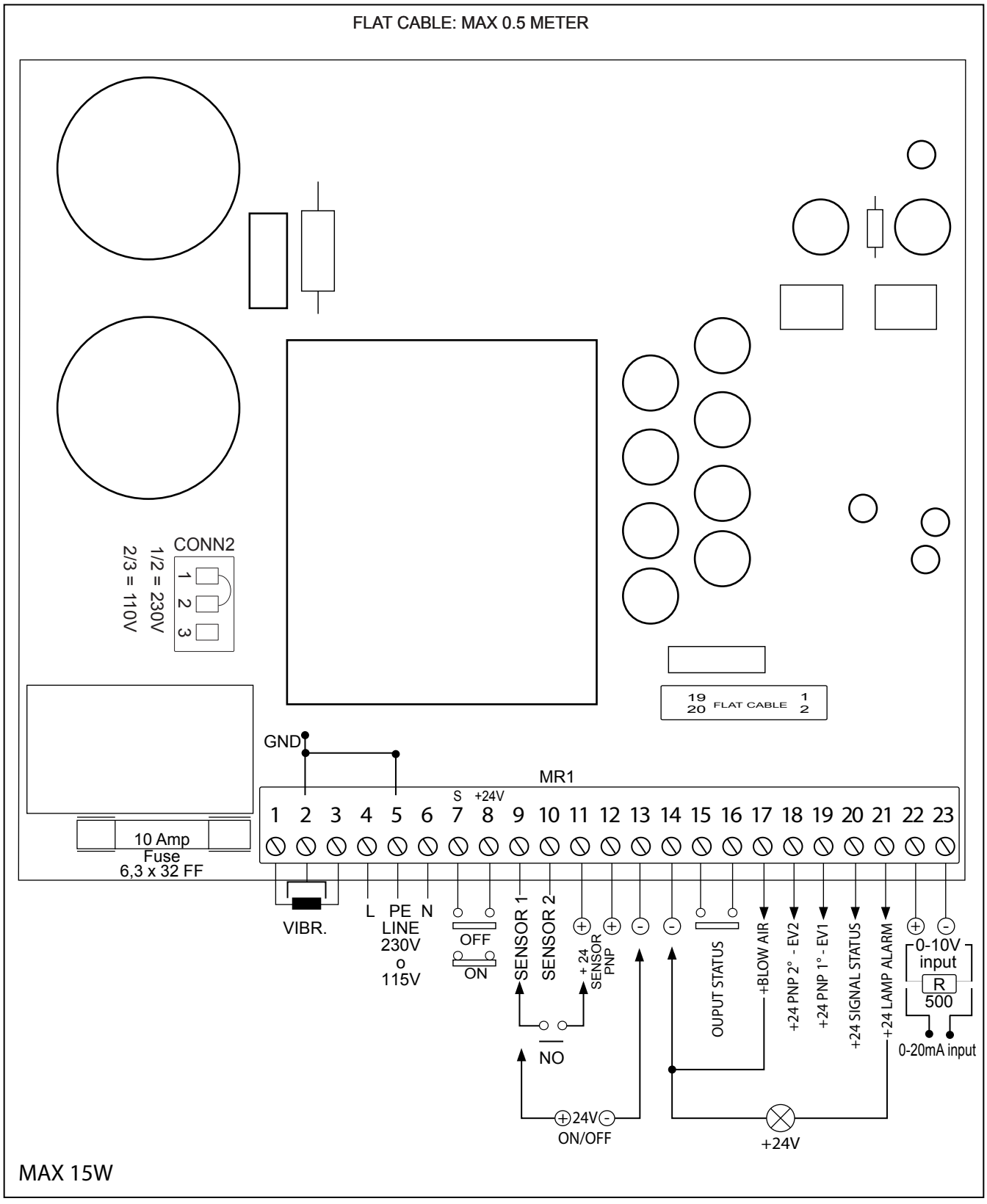
SENSOR SIND3
PV SIND3 A2 STD

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
Air 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 €
FQ1N DIG	Metallic	GRAY	100 x 180 x 190	PV FQNDI Z2 STD	
SENSOR SIND3	Aluminium		45 x 43 x 19	PV SIND3 A2 STD	



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)*

DIGITAL

MP ELETTRONICA
QUALITY VIBRATION CONTROL

Descrizione: ELECTRONIC CIRCUIT FQ1N DIG MAIN BOARD

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