

Electronic Controller for Electromagnetic Vibrator

▶ FQ1-DIG/FQ1-LCD

12A/15A

 115V
230V

 0/10V
0/20mA

General

Microprocessor digital professional controller with visualized frequency and amplitude - Delay 20 sec max On/Off vibrator with sensor PNP or relay contact - Automatic input 0/10V-0/20mA - Status relay.

General Characteristics

Voltage (110V) 230V, 50/60 Hz • Input ON/OFF • Soft ramp • Digital Regulation amplitude/frequency min/max(5-200Hz) • Digital menu • Line input with schuko plug • Vibrator output with connector.

Applications

Digital regulation of linear and bowl feeder till 12/15A Amps - The FQ1DIG - FQ1LCD allows optimizing operation of the vibratory feeder by searching for its resonance frequency (max performance) thereby eliminating its lengthy and difficult mechanical calibration.

Options

Personalized label • Connector for vibrator • LCD version.

Electrical Characteristics

<i>Tension of Feeding:</i>	115V or 230V ± 5% 50/60Hz
<i>Consumption:</i>	2,5 W max
<i>Current Max:</i>	12A/15A (RMS)
<i>Load Min:</i>	50 mA (RMS)
<i>Frequency of Vibration:</i>	5-200Hz (300Hz on request)
<i>Time of Ramp:</i>	1 sec.
<i>Regulation Min.:</i>	80V
<i>Regulation max:</i>	200V
<i>On/Off:</i>	free contact - signal voltage
<i>Degree of Protection:</i>	IP55 in box
<i>Temperature of Operation:</i>	-5°C / +55°C
<i>European Norms:</i>	EMC CE
<i>Guarantee:</i>	1 year (from date on circuit)



METALLIC BOX FQ1 DIG
PV FQDIG Z2 STD
240x200x120



METALLIC BOX FQ1 LCD
PV FQLCD Z2 STD
240x200x120



SENSOR SIND3
PV SIND3 A2 STD

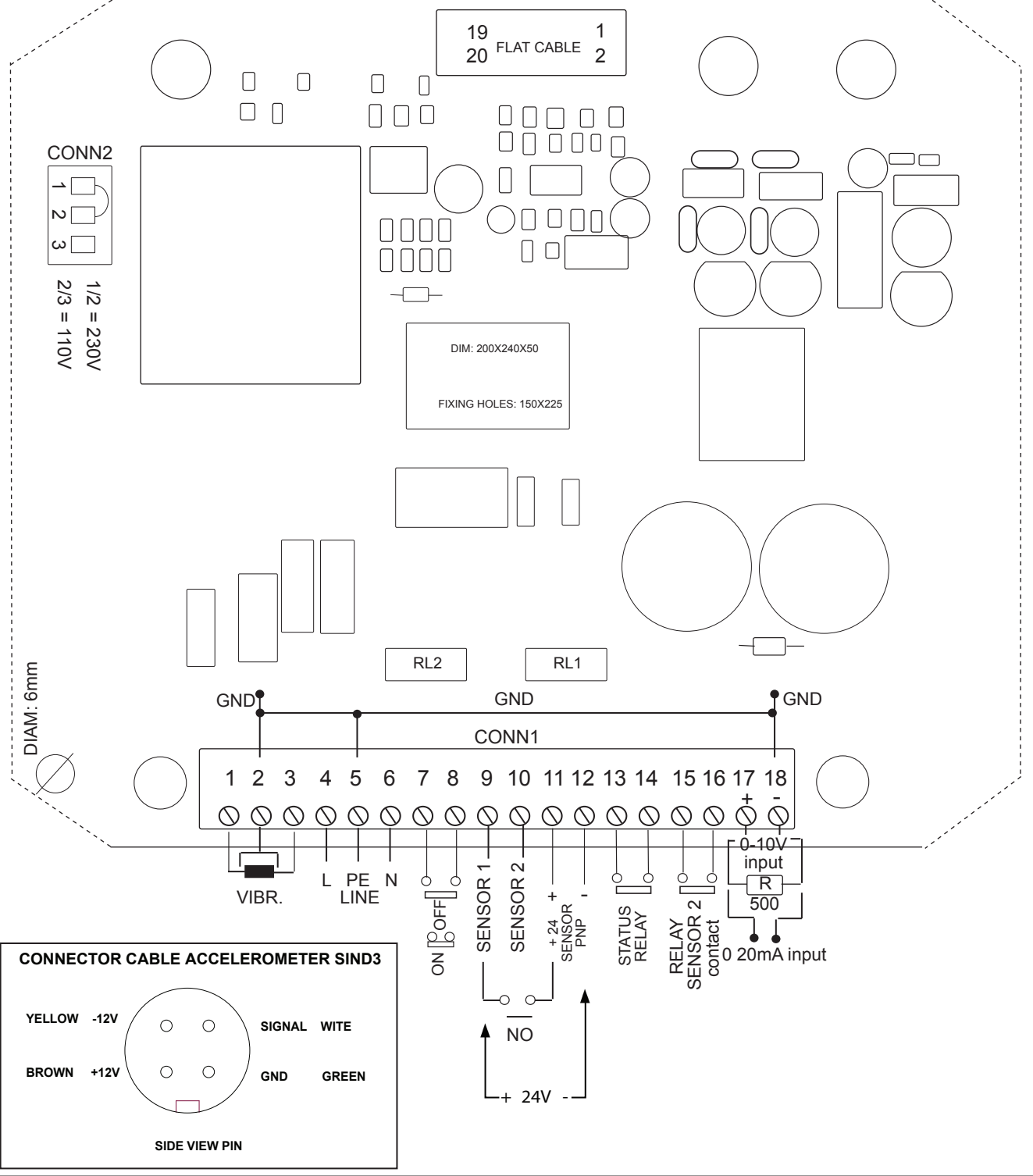
Available Versions

Type	Box	Colour	Dimensions	Code	Price €
FQ1DIG	Metallic	RAL 7035	240 x 200 x 120	PV FQDIG Z2 STD	
FQ1LCD	Metallic	RAL 7035	240 x 200 x 120	PV FQLCD Z2 STD	
SENSOR SIND3	Aluminium		45 x 43 x 19	PV SIND3 A2 STD	

DIAM: 6mm

FLAT CABLE: MAX 0.5 METER

DIAM: 6mm



- 1-3 = VIBRATOR
- 2-5-18 = GND
- 4-6 = LINE
- 7-8 = QUALIFICATION INPUT NC=ON NO=OFF
- 9 = INPUT SENSOR 1 PNP
- 9-11 = MECHANICAL SENSOR NO

- 10 = INPUT SENSOR 2 PNP
- 11-12 = SENSOR PNP + 24VCC
- 13-14 = STATUS RELAY NO/NC
- 15-16 = CONTACT RL2/SENSOR2
- 17-18 = INPUT 0/10V-(0/20mA with R500)



Description: ELECTRONIC CIRCUIT FQ1 DIG MAIN BOARD

CODE	REV	DATE	DRAFTSMAN	SHEET
DTFQ1 MAINBOARD	02	10/08	E. PEDRAZZI	1/1