Electronic Controller for Electromagnetic Vibratory Feeders

▶ FQ1 PWM 6A 115V 230V DIGITAL

General

This controller is available in metallic box with two potentiometers and display, with keys and display, with a potentiometer without dispaly or in circuit with DIN35.

General Characteristics

Voltage (115V) 230V, 50/60 Hz • 3000/6000 vpm • Double Input ON/OFF • Soft/fast ramp • Manual Regulation amplitude/frequency (30/80Hz - 80/130Hz) min/max • Limitation Max Output current • Line input with schuko plug • Vibrator output with connector - Delay 8 sec max On/Off vibrator with sensor NPN/PNP or relay contact - Automatic Input from PLC 0/10V-0/20mA - Status relay

Applications

Digital regulation of linear and bowl feeder till 6 Amps - The FQ1 PWM allows optimizing operation of the vibratory feeder by searching for its resonance frequency (max performance) thereby eliminating its lengthy and difficult mechanical calibration.

Options

Customized label • Connector for vibrator • Frequency Meter • Frequency adjustment knob with lock.

Technical Specs

Feeding Tension:	115V or 230V ± 10% 50/60Hz
Consumption:	2,5 W max
Max Current:	6,3 A (RMS)
Min Load:	50 mA (RMS)
Vibration Frequency:	30/80Hz(50Hz) - 80/130Hz(100Hz)
Time of Ramp:	1 sec.
Input Sensor:	NPN/PNP or Free voltage contact
Automatic Input:	0/10V-0/20mA (with 470 Ohm)
On/Off:	free contact
Delay ON/OFF:	0/8 sec
Protection Degree:	IP65 in box (NEMA4-4X)
Storage Temperature:	-15°C./ + 80°C.
Operation Temperature:	–5°C / +55°C
Altitude:	Up to 2000 meters
European Norms:	EMC CE
Warranty:	1 year (from date on circuit)



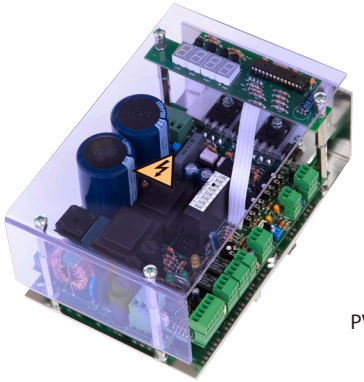
METALLIC BOX
FQ1 PWM
PV FQ1PW Z2 STD
195x130x90



METALLIC BOX
FQ1 PWM
PV FQ1PW Z2 STK
195x130x90



METALLIC BOX
FQ1 PWM
PV FQ1PW Z2 STB
195x130x90



CIRCUIT DIN35
PV FQ1PW D2 STD

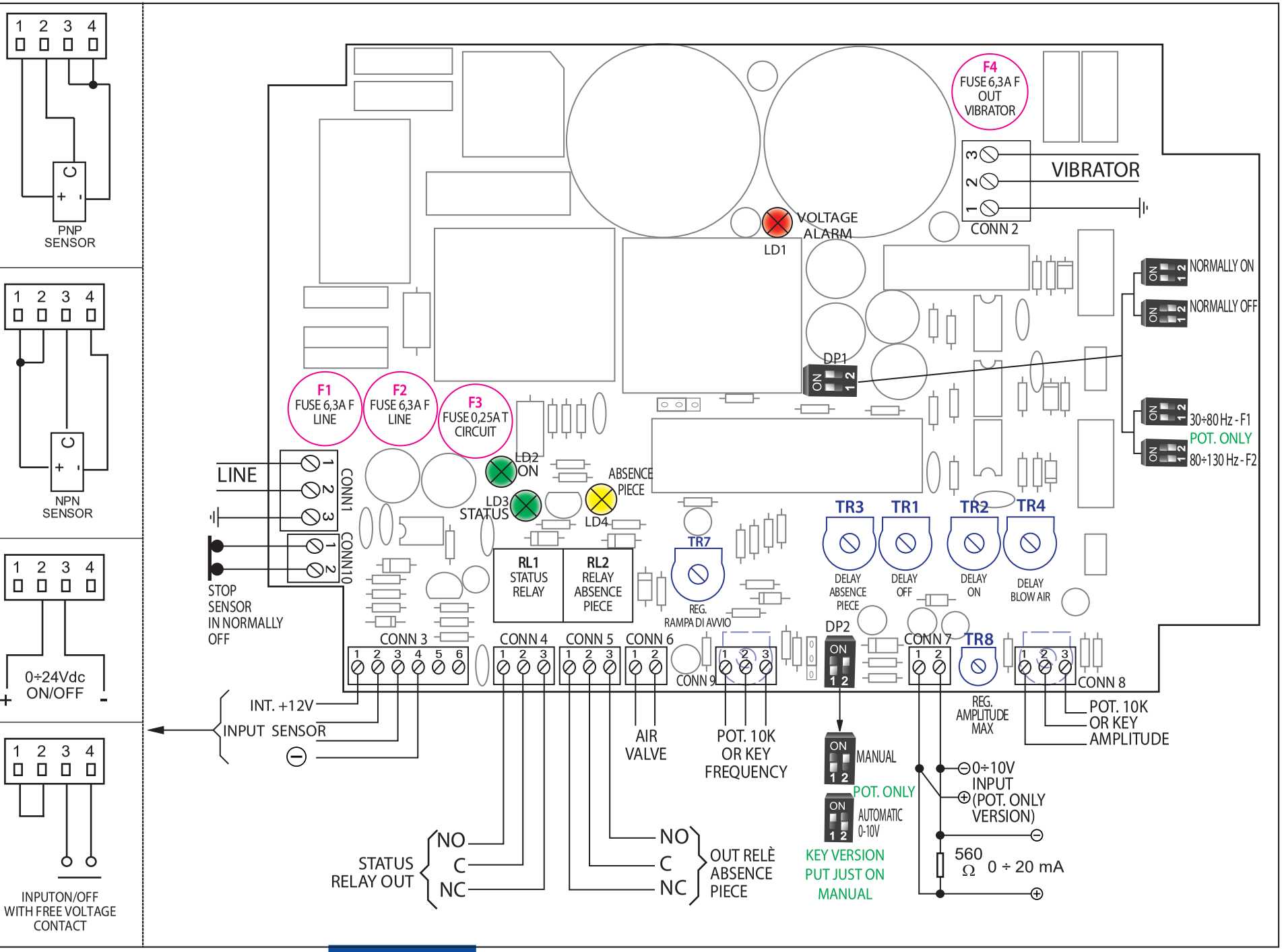
Available Versions

Type	Box	Colour	Dimensions	Code	Price €
FQ1PWMB	Metallic	RAL 7035	195 x 130 x 90	PV FQ1PW Z2 STB	
FQ1PWMB	Circuit Din35		195 x 120 x 50	PV FQ1PW D2 STB	
FQ1PWM	Metallic	RAL 7035	195 x 130 x 90	PV FQ1PW Z2 STD	
FQ1PWM	Circuit Din35		195 x 120 x 50	PV FQ1PW D2 STD	
FQ1PWMK	Metallic	RAL 7035	195 x 130 x 90	PV FQ1PW Z2 STK	

MP ELETTRONICA
QUALITY VIBRATION CONTROL

CODE	REV	DATE	DRAFTSMAN	SHEET
DTFQ1PWM	05	08/15	E. PEDRAZZI	1/1

Description: **FQ1-PWM DIGITAL PWM AMPLITUDE/FREQUENCY CIRCUIT**



DIGITAL