

Electronic Controller for Electromagnetic Vibrator

▶ FQ1N-DIG

 Amp.
10/12/15

 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 - 2° PNP sensor - EV air blow - Alarm absence pieces - Lamp alarm.

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).

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 - Qualification input for multiple electromagnetic system (linear - blow feeder - hopper).

Options

Personalized label • Connector for vibrator • SW custom.

Electrical Characteristis

<i>Tension of Feeding:</i>	115V or 230V ± 5% 50/60Hz
<i>Consumption:</i>	2,5 W max
<i>Current Max:</i>	10A - 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>	0 ÷ 5 sec.
<i>Regulation Min./Max:</i>	50V/200V
<i>Automatic input:</i>	0/10V - 0/20 mA
<i>Sensor:</i>	PNP 0/20 sec.
<i>Delay voltage EV air blow:</i>	0/5 sec.
<i>Delay alarm absence pieces:</i>	10/180 sec.
<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 FQ1N DIG
PV FQNDI Z2 STD
100x180x190

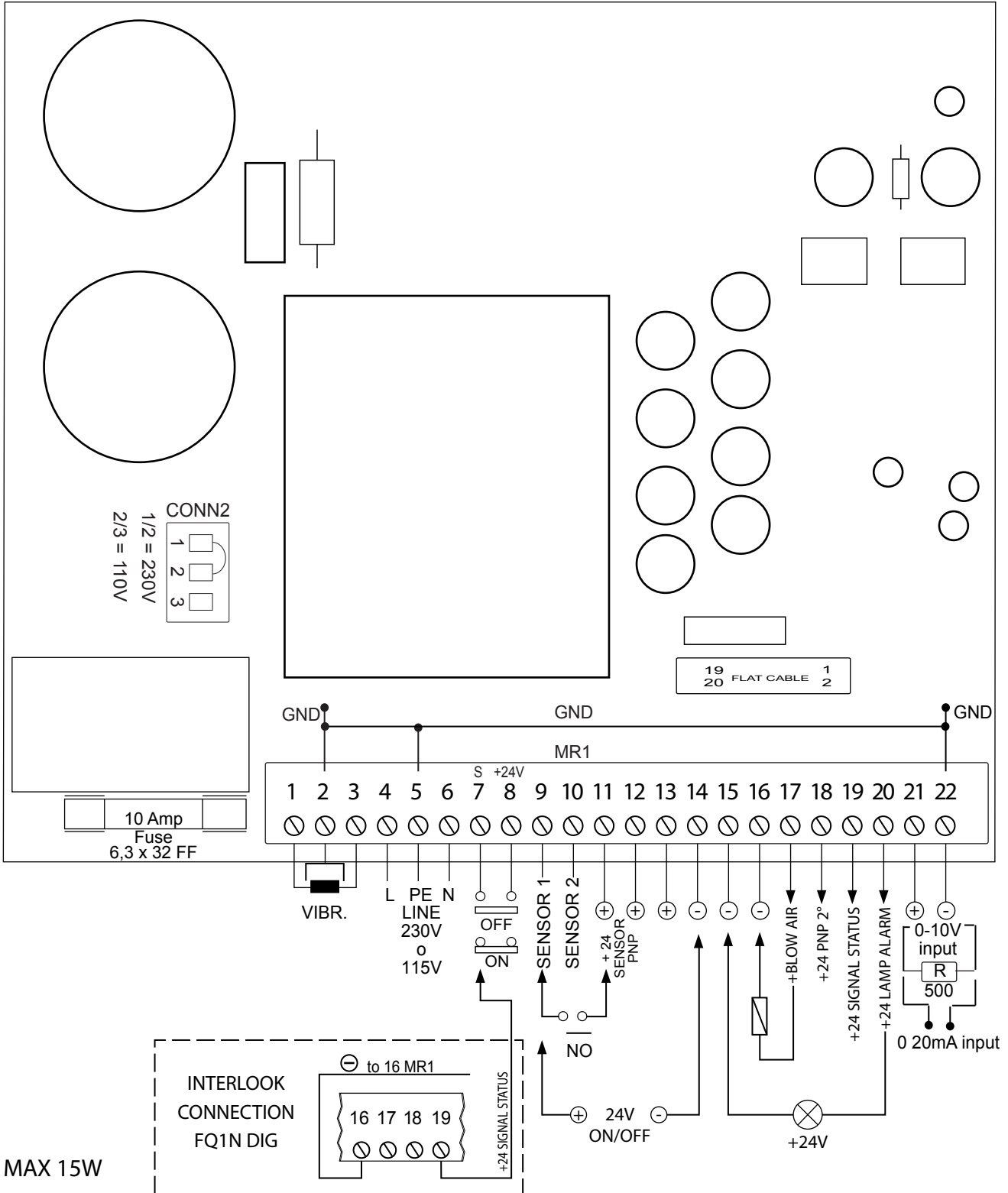


SENSOR SIND3
PV SIND3 A2 STD

Available Versions

Type	Box	Colour	Dimensions	Code	Price €
FQ1DIG	Metallic	BLACK	100 x 180 x 190	PV FQDIG Z2 STD	
SENSOR SIND3	Aluminium		45 x 43 x 19	PV SIND3 A2 STD	

FLAT CABLE: MAX 0.5 METER



MAX 15W

RIF. N° CONN1	DESCRIPTION
1-3	VIBRATOR
2-5-22	GND
4-6	LINEA 230V o 115V 50/60Hz
7-8	QUALIFICATION 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

DIGITAL