

Electronic Controller for Electromagnetic Vibrator

**FQ2N-DIG** **6A** **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 6 Amps - The FQ2NDIG 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>	6A (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**  
**FQ2N DIG**  
PV FQ2DI Z2 STD  
100x210x70



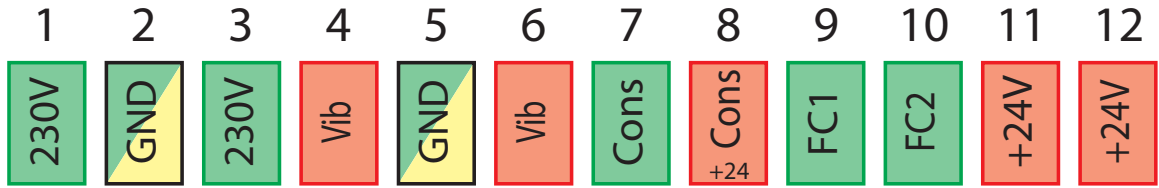
**SENSOR SIND3**  
PV SIND3 A2 STD

**Available Versions**

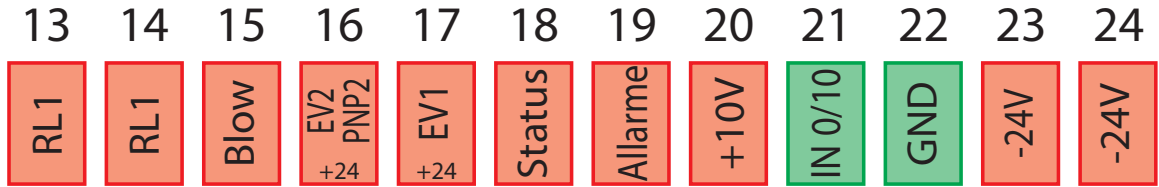
Type	Box	Colour	Dimensions	Code	Price €
FQ2DIG	Metallic	BLACK	100 x 180 x 190	PV FQ2DI Z2 STD	
SENSOR SIND3	Aluminium		45 x 43 x 19	PV SIND3 A2 STD	

MR1-MR2

MR1



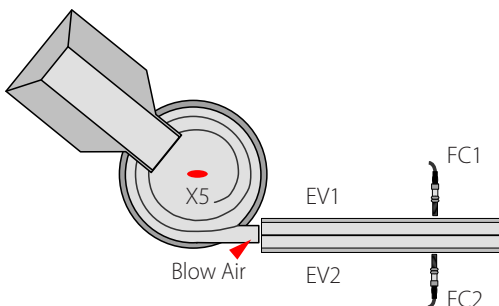
MR2



1	AC	} INPUT 230V (110)	13	RL1	} Status Relay
2	GND		14	RL1	
3	AC	} VIBRATOR	15	Blow	+24V Blow Air
4	Vibrator		16	EV2	+24V EV2/PNP2
5	GND		17	EV1	+24V EV1
6	Vibrator		18	Status	+24V Status Output
7	Cons	Close ON	19	Allarme	+24V Time Out
8	Cons	Open OFF	20	+10V	
9	FC1	IN PNP Sensor 1	21	IN 0/10	
10	FC2	IN PNP Sensor 2	22	GND	
11	+24V		23	-24V	
12	+24V		24	-24V	

DIGITAL

Menù : ALT MODE>YES (Function with Blow Feeder - Linear Twin Track)



FC1	FC2	EV1	EV2	X5
0	0	0	0	1
1	0	1	0	1
0	1	0	1	1
1	1	1	1	0