FQ1NG

Amp. 10/16 | 115V 230V | 0/10V 4/20mA | option Modbus

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 – Load current limitation.

General Characteristics

Voltage 80V/260V, 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 • Overcurrent protection.

Applications

Digital regulation of linear and bowl feeder till 10/16 Amps - Used to optimize the operation of the vibratory feeder by searching for its resonance frequency (max performance) thereby eliminating its lengthy and difficult mechanical calibration - Enable input for multiple electromagnetic system (linear - blow feeder - hopper).

Options

Customized label and SW • Connector for vibrator • Dual-track vibrator control (2 PNP sensors)

Technical Specs

Feeding Tension:	80/260V ± 5% 50/60Hz
Consumption:	2,5W max
Max Current:	10A - 16A (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
Hair Blow Delay:	2 sec.
Sensors Input:	Optoisolati NO/NC NPN/PNP
Sensors:	PNP1 (0 ÷ 20 sec.) - PNP2 - SIND3 (amplitude sensor)
Automatic Input:	0/10V - 0/20 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)



METALLIC BOX
FQ1NG
PV FQNGX Z2 STD
100x225x210



SENSOR SIND3
PV SIND3 A2 STD

FQ1NG-M10/M16

Amp. 10/16 | 115V 230V | 0/10V 4/20mA | option Modbus

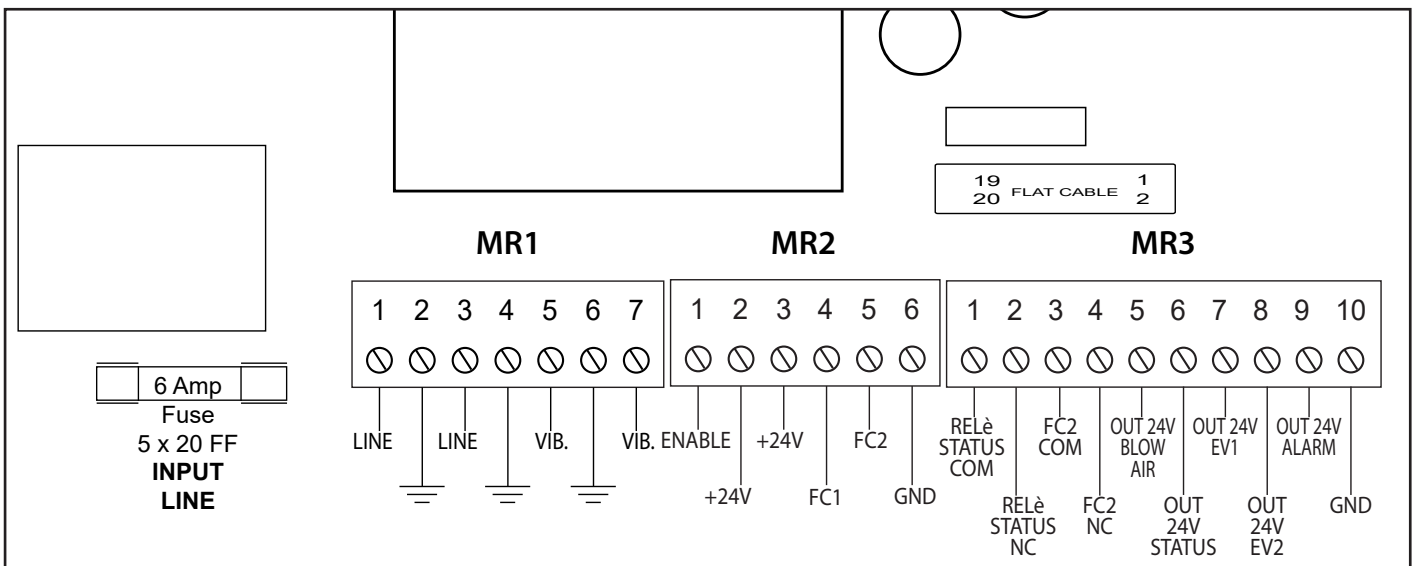


METALLIC BOX
FQ1NG-M16
PV FQ1NG Z2 M16
100x235x210

Available Versions

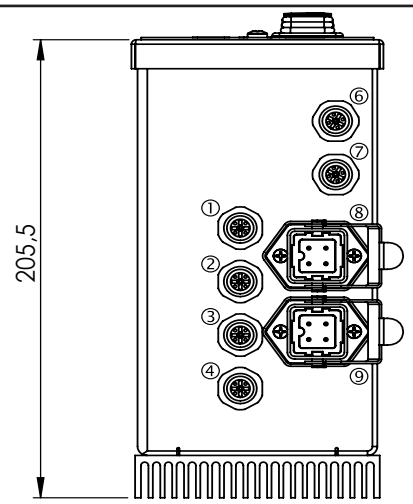
Type	Box	Colour	Dimensions	Code	Price
FQ1NG	Metallic	GRAY	100 x 225 x 210	PV FQ1NG Z2 10A	
FQ1NG	Metallic	GRAY	100 x 225 x 210	PV FQ1NG Z2 16A	
FQ1NG	Metallic	GRAY	100 x 235 x 210	PV FQ1NG Z2 M10	
FQ1NG	Metallic	GRAY	100 x 235 x 210	PV FQ1NG Z2 M16	
SENSOR SIND 3	Aluminium		45 x 43 x 19	PV SIND3 A2 STD	

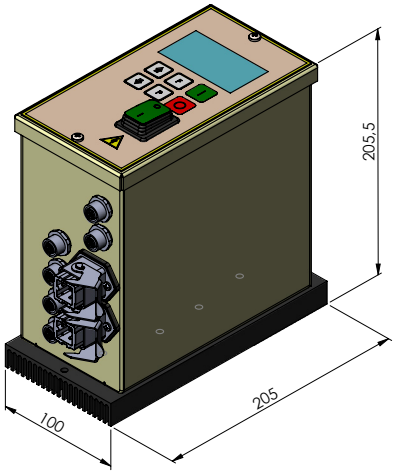
TECHNICAL DRAWINGS



	DESCRIPTION
5-7 MR1	*VIBRATOR*
4-6 MR1	*GND*
1-3 MR1	*LINE 230V/115V 50/60Hz*
1-2 MR2	*QUALIFICATION INPUT NC=ON - NO=OFF*
	INVERSION LOGIC MENÙ 4.1

CONNECTIONS





CONNECTORS M12

ON REQUEST

1 II PNP SENSOR

1	*+24V*
2	
3	*GND*
4	*INPUT*
5	

2 ENABLE

1	*+24V*
2	
3	*GND*
4	*IN*
5	

3 BLOW AIR

1	*+24V*
2	
3	*GND*
4	
5	

4 STATUS OUTPUT

1	*+24V*
2	
3	*GND*
4	
5	

6 I° PNP SENSOR

1	*+24V*
2	
3	*GND*
4	*INPUT*
5	

7 AMPLITUDE SENSOR3

1	*+24V-BROWN*
2	*INPUT-WHITE*
3	*GND-YELLOW*
4	*SHIELD*
5	

8 VIBRATOR

1	VIBRATOR
2	VIBRATOR
3	
PE	GND

9 LINE

1	L
2	N
3	
PE	GND

DIGITAL