

Electronic Controller for Electromagnetic Vibrator

**MCP12** Amp. 6/8/6 115V 230V IP 55

**NEW**

**General**

This Module can be used for the automatic driving of a system made up by a vibratory hopper, cylindrical vibratory feeder, linear vibratory feeder or conveyor belt with 2 PNP sensor, output blow air, alarm time out.

**General Characteristics**

Voltage (110V) 230V, 50/60 Hz • Input ON/OFF • Soft/Fast ramp (0 ÷ 5 sec.) • Digital Regulation amplitude min/max • 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**

Control circuit for vibratory Hopper, cylindrical vibratory feeder, Linear vibratory feeder with level sensor **NPN/PNP** in the Cylindrical vibratory feeder and overflow sensor **NPN/PNP** on the Linear vibratory feeder (both timed).

**Options**

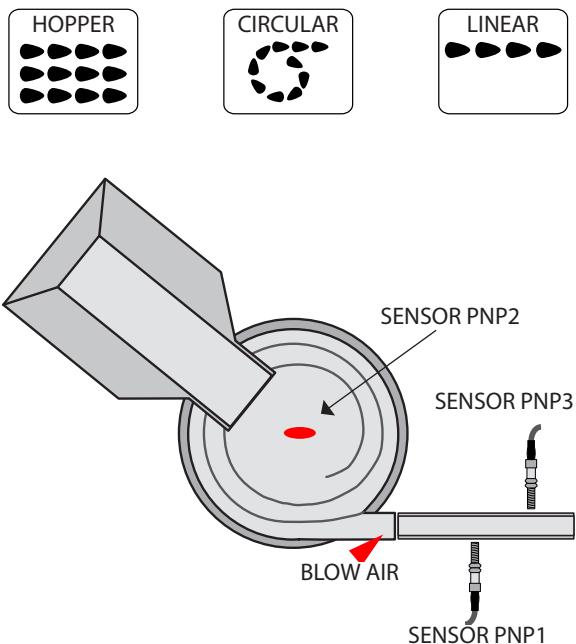
Personalized label • Connector for vibrator • SW custom.

**Electrical Characteristics**

|                             |  |
|-----------------------------|--|
| Supply Voltage:             | 230V +/- 5% 50/60Hz                      |
| Current Max:                | 6A - 8A - 6A (RMS)                       |
| Fuses:                      | 6,3A F 250V 5x20 H 1500 A (EN 627-2 CEI) |
| Min. Load:                  | 50 mA (RMS)                              |
| Frequency of Vibration:     | 3000/6000 V/min. (50Hz)                  |
| Time of Ramp:               | 0,2 sec. or 2 sec. (modifiable)          |
| Regolation Min.:            | 80V +/- 30%                              |
| Regolation Max:             | 200V - 30%                               |
| Delay T1/T2:                | 0-10 sec.                                |
| Alarm Time:                 | 0-15 sec.                                |
| Sensor Input:               | optoisolated NPN/PNP                     |
| Degree of pollution:        | 2  |
| Position of Assemblage:     | horizontal or vertical                   |
| Degree of Protection:       | IP54 in box (only circuit IP00)          |
| Temperature of Storage:     | -15 °C / + 80 °C                         |
| Temperature of Operation:   | -5 °C / + 45 °C                          |
| Range of Relative humidity: | 80% till to 31°C                         |
| Installation Class:         | II                                       |
| Altitude:                   | till to 2000 meters                      |
| European Norms:             | EMC CE                                   |
| Guarantee:                  | 1 year (from date on circuit)            |



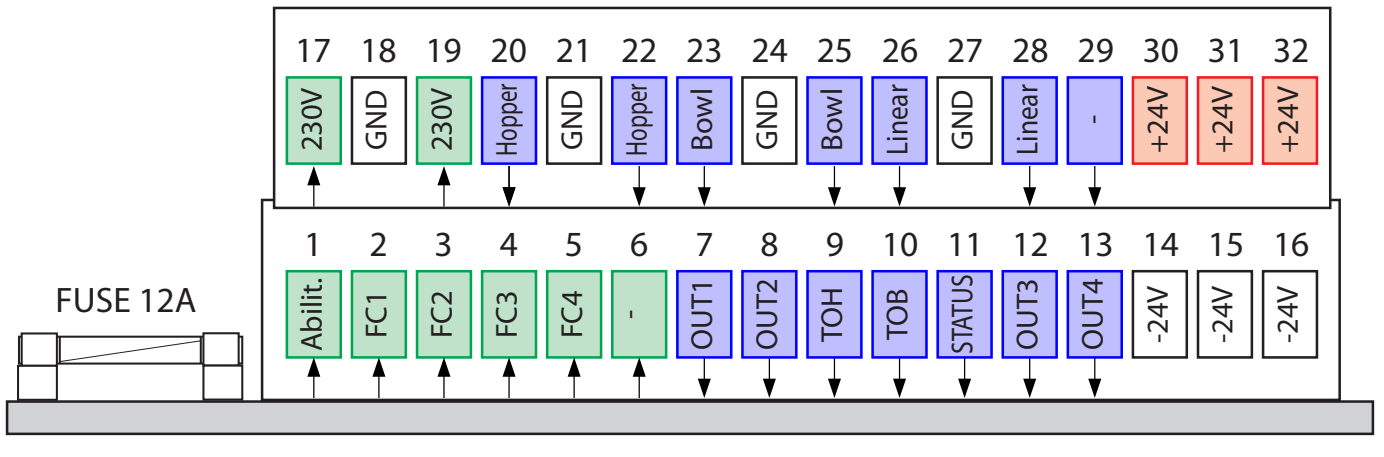
**METALLIC BOX MCP12**  
PV MCP12 Z2 STD  
130x180x190



**Available Versions**

| Type                    | Box       | Colour | Dimensions      | Code            | Price € |
|-------------------------|-----------|--------|-----------------|-----------------|---------|
| MCP12<br>MP • SP07 - 93 | Metallico | GREY   | 130 x 180 x 190 | PV MCP12 Z2 S03 |         |

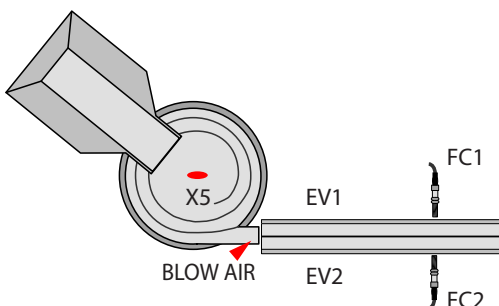
MR1-MR2



|    |                            |    |                     |          |
|----|----------------------------|----|---------------------|----------|
| 1  | Enable                     | 17 | 230V                | } LINE   |
| 2  | FC1 - Sensor 1             | 18 | GND                 |          |
| 3  | FC2 - Sensor 2             | 19 | 230V                |          |
| 4  | FC3 - Sensor 3             | 20 | Hopper              | } Hopper |
| 5  | FC4 - opzional             | 21 | GND                 |          |
| 6  | Input 6                    | 22 | Hopper              |          |
| 7  | Out 1 - Air-Jet            | 23 | Bowl feeder         |          |
| 8  | Out 2 - Present signal     | 24 | GND                 |          |
| 9  | TOH - Time Out Hopper      | 25 | Bowl feeder         |          |
| 10 | TOB - Time Out Bowl Feeder | 26 | Linear              | } Linear |
| 11 | Status +24V                | 27 | GND                 |          |
| 12 | Out 3 - optional           | 28 | Linear              |          |
| 13 | Out 4 - optional           | 29 | Output 8 - optional |          |
| 14 | -24V                       | 30 | +24V                |          |
| 15 | -24V                       | 31 | +24V                |          |
| 16 | -24V                       | 32 | +24V                |          |

MDL/MCP

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  |