Module for Automatic Loading Systems (Linear - Circular - Vibrating Hopper)

MCP02/LT

Amp. 6/8/10 | 115V 230V | SIND3

NEW



METALLIC BOX MCP02
PV MCP02 Z2 STD
100x250x105

General

The **MCP02** module allows the automatic operation of a feeding system composed of: Vibrating Hopper, Circular Vibrator, Linear Vibrator, with two PNP sensors, air blow output, piece flow absence alarm with all parameters selectable from the keyboard.

General Characteristics

The **MCP02** module allows you to adjust the vibration amplitude for up to 2 vibrating systems • Select 3000/6000 V/m • Ramp time • ON/OFF delay of the vibrator with PNP sensor • Air blow • Piece flow absence time with alarm . The total maximum currents are 10A total 3A for Linear Vibrator 6A for Circular Vibrator 3A for Vibrating Hopper.

Applications

Control of Vibrating Hopper, Circular Vibrator, or Linear Vibrator, Circular Vibrator, with PNP level sensor in Circular or Linear and PNP overflow sensor on the linear (both timed), air blow for piece flow absence with alarm.



SENSOR SIND3
PV SIND3 A2 STD

Options

Customized front panel • Connector for vibrators • Customized software.

Technical Specs

Power Supply Voltage:	(115V) 230V ± 5% 50/60Hz
Consumption:	1,5W max
Max Current:	3A - 6A - 3A (RMS)
Minimum Load:	50 mA (RMS)
Vibration Frequency:	3000/6000 vib/min. (50Hz)
Ramp Time:	0/10 sec.
Min./Max. Adjustment:	0/210V
On/Off:	0-30 sec.
Blow Delay:	0/10 sec.
Piece Flow Absence Time:	30/180 sec.
Sensor Inputs:	Optoisolators
Sensors:	PNP 24V- NO/NC
Operating Temperature:	0/50° C
Relative Humidity Range:	80% up to 31°C
Altitude:	up to 2000 meters
Protection Degree:	IP55
European Standards:	EMC CE
Warranty:	12 months (from the date on the circuit).

Available Versions

Type	Box	Colour	Dimensions	Code	Price
MCP02/LT	Metallic	GRAY	100 x 250 x 105	PV MCP02 Z2 STD	

MODULE FOR ELECTROMAGNETIC VIBRATORS LINEAR - CIRCULAR – HOPPER
MCP02/LT

GENERAL

This Module **MCP02/LT** can be used for the automatic driving of a system made up by a linear vibratory with circular and bowl feeder or hopper, with 4 **PNP** sensor, output blow air, Alarm Time Out, production counter , password, user menu with all parameters selectable by keys.
MCP02/LT allows you to adjust the vibration amplitude up to two vibrating systems
• 3000/6000 V/m • ramp time • Delay ON/OFF with PNP sensor • Air-Jet • Alarm absence pieces. High/low speed function.
Total max current **8A**: Vibrating channel 1 max **6A** – vibrating channel 2 max **2A**.

- ☑ 2 sensor inputs PNP for track and jet control, presence signal (max 20 mA), counting pieces.
- ☑ 3 output 24V for air-jet, presence piece (max 100mA), Counter, Time Out channel and EV ON/OFF.
- ☑ 1 Output status +24V (Power ON - Enable ON), channel status CH1 and CH2.
- ☑ 2 Enable input 24VDC or volt-free contacts for each channel.
- ☑ 2 power outputs 0/210V for the 2 vibrators adjustment.

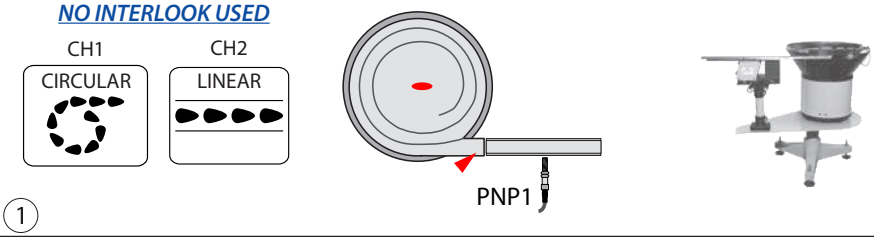
PARTICULAR INSTRUCTION

The controller MCP0/LT2 has the output of two channels for the control and the management
of systems usually made up of Linear and Circular, or hopper and Circular. It has 7 different logics to allow the use of the two vibrating channels in various other configurations.
In Logic menu, you can select the logic according to the requirements.
Sensor PNP1 e PNP2 can be used with:
- No Interlook used
- CH1 Interlook CH2
- Parallel Channels

AVAILABLE VERSIONS

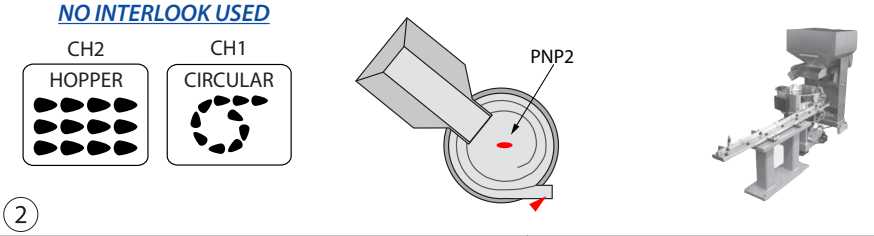
Linear-bowl feeder
Or bowl feeder and Hopper with 2 sensor

NO INTERLOOK USED



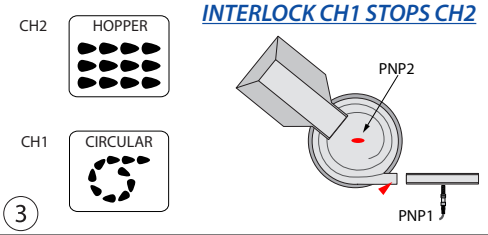
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NO INTERLOOK USED



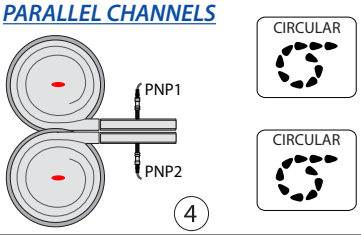
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INTERLOCK CH1 STOPS CH2



3

PARALLEL CHANNELS



4



Functions

Linear-Circular (CH2-CH1)
Circular-Hopper (CH2-CH1)
Feeder Speed
Invert Enable
Start Ramp
Stop Ramp
Vibration Limit max/min
Vibrating Frequency
50/100 Hz(60/120Hz)

Sensor PNP 1 Linear
Invert sensor 1
Delay ON
Delay OFF
Time out (absence pieces)

PNP 2 Sensor Air-Jet
Invert sensor 2
Delay ON
Delay OFF
Time out (absence pieces)

Output EV
Output 1: Air-Jet ON
Delay OFF Air-Jet

Sensor Logic
NO Intelook used
CH1 Interlock CH2

Speed Setting:
0/10V
0/20 mA
Key Board