

## MI420 – MI420X4

### MI420: 4÷20mA analog input module

MI420 modules allow transmitting analog signals through the **CONTATTO** bus. The analog signal applied to the module must be 4÷20mA type. MI420 module converts the current applied at the input in an 8 bits digital code (255 steps) and transmits this code through the bus.

MI420 analog input modules have a front 3-terminal block; 8 red LEDs on the front side show the percentage of applied signal (0÷100%).

On the top of the module a 5-terminal block allows the connection to the 4 wire bus; the 5th terminal is used by the addresses programmer only.

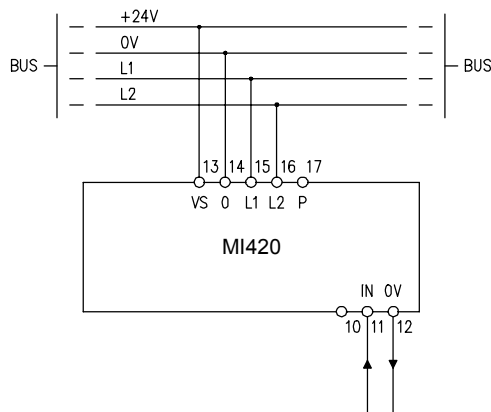
A front label allows to write the programmed module address for an immediate visual identification.

### Address programming

For proper operation, an address in the range 1 to 127 has to be assigned to MOAN/I module using FXPRO programmer.

### Wiring diagram

The following diagram shows the connections from the module to the bus and the input signal connection to the front terminal block

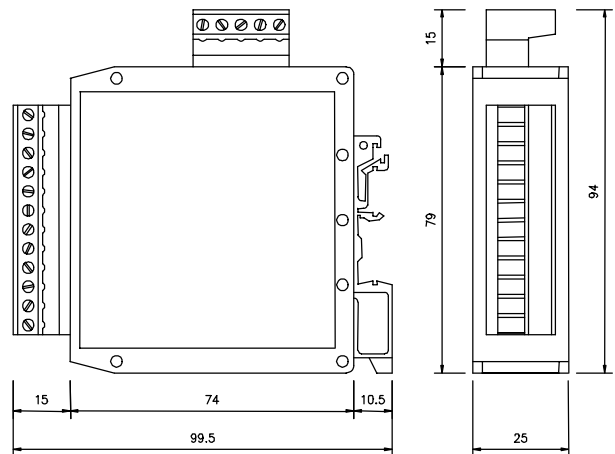


**Note:** the input section is not electrically insulated from the bus supply.

### Technical characteristics

Supply voltage	24V $\pm$ 25% SELV
MAX current consumption	35mA
Input signal	4 ÷ 20mA
Resolution	62.5µA (8bit)
Linearity	$\pm$ 1 LSB
Input impedance	47Ω
Operating temperature	-10 ÷ +50 °C
Storage temperature	-30 ÷ +85 °C
Protection degree	IP20

### Outline dimensions



## MI420 – MI420X4

### MI420X4: quad 4÷20mA analog input module

MI420X4 module allows transmitting analog signals through the **CONTATTO** bus. The analog signals applied to this module must be 4÷20mA type. MI420X4 module converts the current applied at the inputs in an 8 bits digital code (255 steps) and transmits this code through the bus.

MI420X4 analog input modules have a front 12-terminal block to connect the input signals; a green LED on the front side show the power-on condition of the module.

On the top of the module a 5 terminal block allows the connection to the 4 wire bus; the 5th terminal is used by the addresses programmer only.

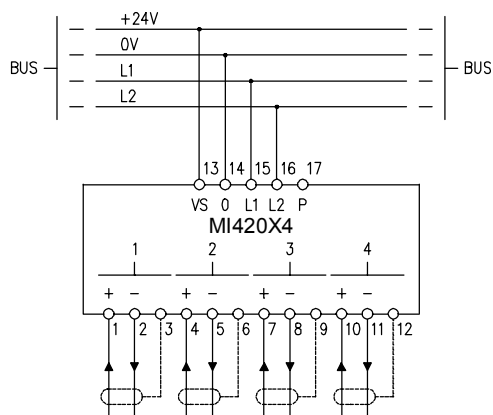
A front label allows to write the programmed module start address for an immediate visual identification.

### Address programming

Each MI420X4 module takes up 4 consecutive addresses of the **CONTATTO** system, one for each input; to program the module, the start address only has to be set by the FXPRO programmer (in the range 1 to 124). As example, programming the module with address 3, it will be automatically programmed with the addresses 3, 4, 5 and 6; the lower address will be related to the input 1 while the higher one will be related to input 4.

### Wiring diagram

The following diagram shows the connection between the module and the bus, and the signal terminations on the front terminal block.



**Note:** the input section is not electrically insulated from the bus supply.

### Technical characteristics

Supply voltage	24V $\pm$ 25% SELV
MAX current consumption	40mA
Input signal	4 x 4 ÷ 20mA
Resolution for each channel	62.5µA (8bit)
Linearity	$\pm$ 1 LSB
Input impedance	47Ω
Operating temperature	-10 ÷ +50 °C
Storage temperature	-30 ÷ +85 °C
Protection degree	IP20

### Outline dimensions

