

MOAN/I – MOAN/I4

MOAN/I: 0÷10V analog input module

MOAN/I modules allow transmitting analog signals through the **CONTATTO** bus. The analog signal applied to the module must be 0÷10V type; the availability at the terminal block of a 10Vcc reference voltage allows an easy connection to a potentiometer. MOAN/I module converts the voltage applied at the input in a 8 bits digital code (255 steps) and transmits this code through the bus.

MOAN/I analog input modules have a front 3-terminal block; 8 green 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.

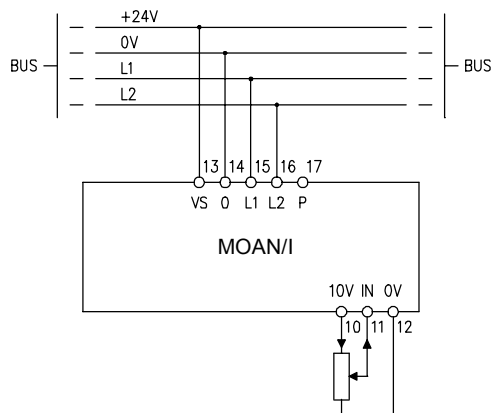
A front label allows to write the programmed module address for an immediate visual identification.

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, as example, between the module and a potentiometer. To connect an external 0÷10V source, use terminals IN and 0V.

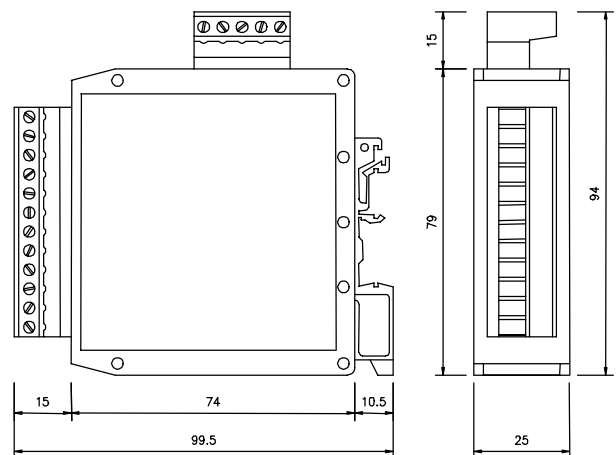


Note: the input section is not electrically insulated from the bus supply.

Technical characteristics

Supply voltage	24V \pm 25% SELV
MAX current consumption	25mA
Input signal	0 ÷ 10Vdc
Resolution	39mV (8bit)
Linearity	\pm 1 LSB
Input impedance	> 400K Ω
Reference output voltage	10Vdc
MAX reference current	10mA
Operating temperature	-10 ÷ +50 °C
Storage temperature	-30 ÷ +85 °C
Protection degree	IP20

Outline dimensions



MOAN/I – MOAN/I4

MOAN/I4: quad 0÷10V analog input module

MOAN/I4 modules allow transmitting analog signals through the **CONTATTO** bus. The analog signals applied to this module must be 0÷10V type; the availability at the terminal block of a 10Vdc reference voltage allows an easy connection of potentiometers. MOAN/I4 module converts the voltage applied at the input in an 8 bits digital code (255 steps) and transmits this code through the bus.

MOAN/I4 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.

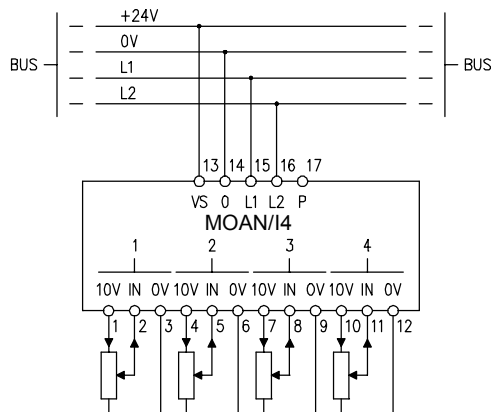
A front label allows to write the programmed module start address for an immediate visual identification.

Address programming

Each MOAN/I4 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, as example, the connections between the module and 4 potentiometers. To connect external 0÷10V sources, use the terminals IN and 0V of each input



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 x 0 ÷ 10Vdc
Resolution for each channel	39mV (8bit)
Linearity	\pm 1 LSB
Input impedance	> 400K Ω
Reference output voltage	10Vdc
Total MAX reference current	10mA
Operating temperature	-10 ÷ +50 °C
Storage temperature	-30 ÷ +85 °C
Protection degree	IP20

Outline dimensions

