Mod32IL: 32 digital inputs module

Mod32IL modules allow to transmit, through the CONTATTO bus, 32 ON-OFF signals coming, for instance, from push-buttons, limit switches, proximity switches, etc.

The 32 inputs of Mod32IL module are arranged into four groups, each one consisting in 8 inputs (A1÷A8, B1÷B8, C1÷C8 and D1÷D8); a different channel of the same address is assigned to each group.

The input contacts must be free of any potential and supplied by the reference voltage provided by the module itself (C terminals).

MOD32I/A module features four 9-way terminal blocks for the input contacts connection and a 5-poles terminal block for the connection to the 4 wires communication bus; the 5th pole of this last terminal block is used by the addresses programmer only (FXPRO or FXPRO2).

On the front panel, a red LED for each input shows the status of the related contact and a green LED reports the power on condition; a white label allows to write the address assigned to the module for an immediate visual identification.

Mod32IL housing is a 9-module width DIN box for rail mounting.

Note: Mod32IL module can operate exclusively in systems with MCP XT or MCP 4 controllers.

The relation between the group of inputs and the related channel is the following:

Group	Channel
A	1
B	2
C	3
D	4

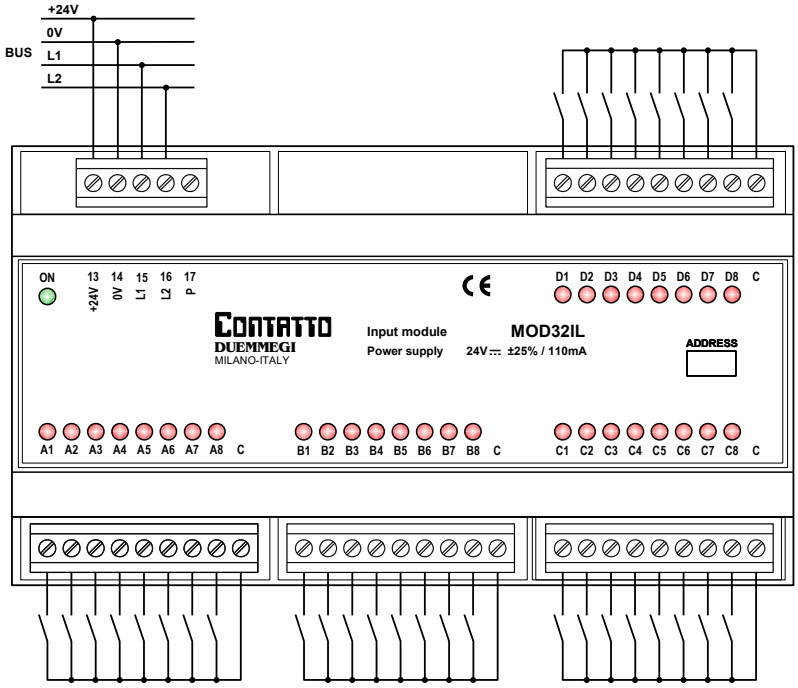
Supposing to have assigned the address 10 to a Mod32IL module, the input 1 of terminal block A will be then `I10:1.1` (e.g. `O1.5 = TI10:1.1`), input 5 of group C will be `I10:3.5` and so on.

Address programming

Mod32IL module takes, inside CONTATTO system, one input address reporting the status of the 4 input groups on 4 channels. The address must be assigned by FXPRO or FXPRO2 programmer and must be in the range 1 to 127.

Wiring diagram

Mod32IL module allows the connection to potential-free contacts supplied by the voltage reference provided by the module (terminals C), as shown by the schematic diagram in the figure here below. The four C terminals are internally connected together.



Technical characteristics

Supply voltage	24V ⎓ ± 25% SELV
MAX current consumption	110mA, all inputs ON
Current for each input	2.5mA @ 24V ⎓
MAX allowed input voltage	40V ⎓
Input voltage threshold	> 9V ⎓
Input hysteresis	< 0.1V
Operating temperature	-10 ÷ +50 °C
Storage temperature	-30 ÷ +85 °C
Protection degree	IP20

Correct disposal of the product (waste electrical & electronic equipment)

(Applicable in the European Union and other European countries with separate collection systems). This marking on the product, accessories or documentation indicates that the product and its electronic accessories should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. Adequate disposal of the decommissioned equipment for recycling, treatment and environmentally compatible disposal contributes in preventing potentially negative effects on the environment and health and promotes the reuse and/or recycling of equipment materials. Abusive product disposal by the user is punishable by law with administrative sanctions.

Installation and use restrictions

Standards and regulations

The design and the setting up of electrical systems must be performed according to the relevant standards, guidelines, specifications and regulations of the relevant country. The installation, configuration and programming of the devices must be carried out by trained personnel.

The installation and the wiring of the CONTATTO bus line and the related devices must be performed according to the recommendations of the manufacturers (reported on the specific data sheet of the product) and according to the applicable standards.

All the relevant safety regulations, e.g. accident prevention regulations, law on technical work equipment, must also be observed.

Safety instructions

Protect the unit against moisture, dirt and any kind of damage during transport, storage and operation.

Do not operate the unit outside the specified technical data.

Never open the housing. If not otherwise specified, install in closed housing (e.g. distribution cabinet).

Earth the unit at the terminals provided, if existing, for this purpose.

Do not obstruct cooling of the units.

Setting up

The physical address must be assigned with the specific programmer and the setting of parameters (if any) must be performed by the specific configuration softwares; for more details refer to the specific data sheet of the product. For the first installation of the device, generally and unless otherwise specified on the specific data sheet of the product, proceed according to the following guidelines:

- Check that any voltage supplying the plant has been removed
- Assign the address to module (if any)
- Install and wire the device according to the schematic diagrams on the specific data sheet of the product
- Only then switch on the 230Vac supplying the bus power supply and the other related circuits

Applied standards

The devices belonging to CONTATTO line comply with the essential requirements of the following directives:
2014/30/UE (EMC)
2014/35/UE (Low Voltage)
2011/65/UE (RoHS)

Note

Technical characteristics and this data sheet are subject to change without notice.

Outline dimensions