

1. GENERAL FEATURES:

Control points: 6 command points;

Control: Via MD BUS;

Applications: Control of solenoid valves, boilers, AVAC, small motors, electric locks, switching of power in general;

Installation: DIN Rail Distribution Board.

2. GENERAL SPECIFICATIONS:

Mains Voltage: 12VDC;

Consumption: 170mA @ 12VDC (With all relays active);

Storage Temperature: -10°C to 60°C;

Operating Temperature: 10°C to 50°C;

Maximum humidity: 80% non-condensing;

Specifications Outputs:

Rated current: 2A;

Rated load:

Resistive ($\cos \varphi = 1$):

0,1A at 230VAC;

2A at 30VDC.

Switching capacity:

Resistive ($\cos \varphi = 1$):

23VA at 230VAC;

60W at 30VDC.

Physical Specifications:

Dimensions: 105mm X 90mm X 70mm DIN rail mounting (6 modules);

Box Plastic, self-extinguishing UL-94 V0;

Level of Protection: IP20, for indoor use;

Directives:



3. COMPATIBILITY:

PCCWd Compatibility: V2.0 or higher;

Software Compatibility Mordomus: Mordomus Software v2015.2 or higher.

4. SECURITY:

Before making any connections, please read these instructions carefully.

Never remove the plastic base from DIN rail.

Do not touch live parts. Dangerous voltages present within the module.

5. CONNECTIONS:

Thickness of conductors:

Circuit Loads:

Mono-wire 2.5mm²;

Multi-wire 2.5mm²;

Bus Circuit:

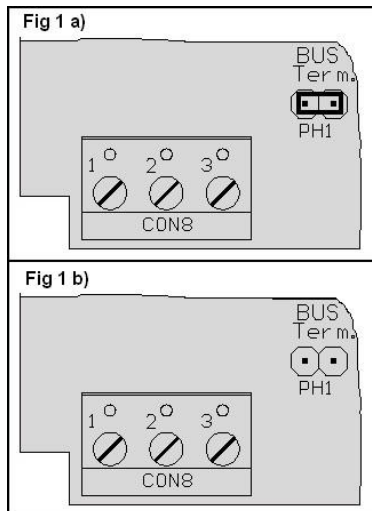
CAT6 Cable F/UTP shielded, twisted;

Power Circuit:

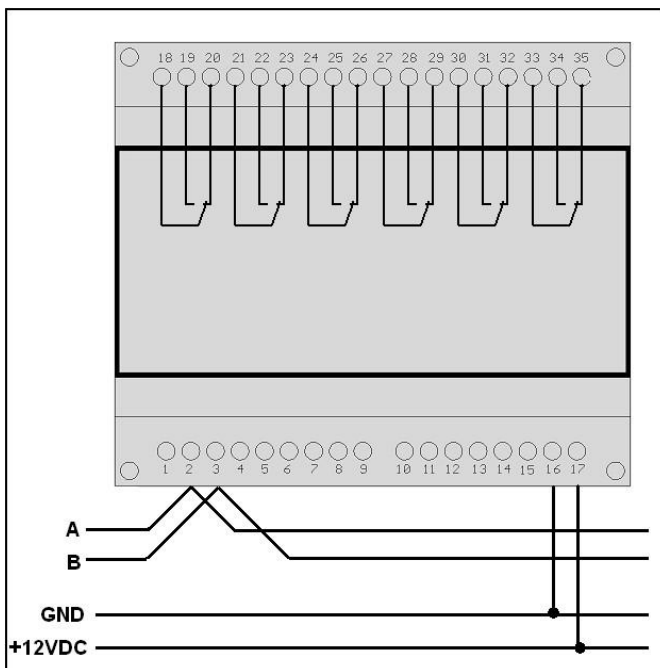
Mono-wire or multi-wire at least 0.75mm²;

Table of Connections:

Number	Function	Number	Function
1	GND	24	C. Relay 4
2	MD BUS TX (A)	25	N.O. Relay 4
3	MD BUS TX (B)	26	N.C. Relay 4
16	GND	27	C. Relay 3
17	+12VDC PSU	28	N.O. Relay 3
18	C. Relay 6	29	N.C. Relay 3
19	N.O. Relay 6	30	C. Relay 2
20	N.C. Relay 6	31	N.O. Relay 2
21	C. Relay 5	32	N.C. Relay 2
22	N.O. Relay 5	33	C. Relay 1
23	N.C. Relay 5	34	N.O. Relay 1
24		35	N.C. Relay 1



In the case of the module is the last bus on the bus a jumper, according to Fig 1 a), must be placed, to close the chain BUS. In other situations it should remain as in Fig 1 b).



Connect the Bus:

To connect the BUS should use a twisted pair cable CAT6. For example: Green for **A** and Green/White to **B**. The shield should be connected to GND.

Connect the 12VDC power:

It is recommend the use of Mean-Well power supplies, DR60-12 and DR30-12.

6. ADDRESSING AND CONFIGURATION:

To assign the desired module follow the procedure:

1. Open the "Register modules" in the Mordomus software;
2. Press address (Addressing) inside the module. The Green LED will blink slowly and the red LED will pulse once.

Note that after three minutes without having assigned a new address, the module automatically returns to normal.

3. Set the desired address in the window now displayed on Software Mordomus.

The chosen address must not be shared with another module.

4. Define the type of each input as well as other parameters.

7. FUNCTIONING:

Led Code:

Green LED ON: Module powered;

Green LED blinking briefly: Module to receive data;

Green LED blinking continuously: Module awaiting address;

Red LED blinking: module sending data.

The inputs defined for reading sensors (PIR, gas, etc.) are limited to one event/detection each 20 seconds. After each event/detection, this input will not detect other events for 20 seconds.

In the event of smoke/fire detection at an analogue input, detectors are reactivated automatically one minute after detection (cutting power for 4 seconds), and so, it is again ready for a new detection. The address regarding this input is the last address in the module. There is no need for end-of-line Resistor.

Reset: To perform a reset to the module, cut power supply 12VDC for a few seconds or place the jumper according to Fig 3 b) for about 3 seconds and put it back in its original position (Fig. 3 a)).

