

## 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 2.5mm<sup>2</sup>;

Multi-wire 2.5mm<sup>2</sup>;

Bus Circuit:

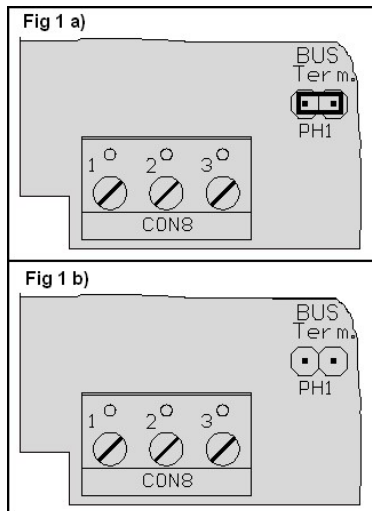
CAT6 Cable F/UTP shielded, twisted;

Power Circuit:

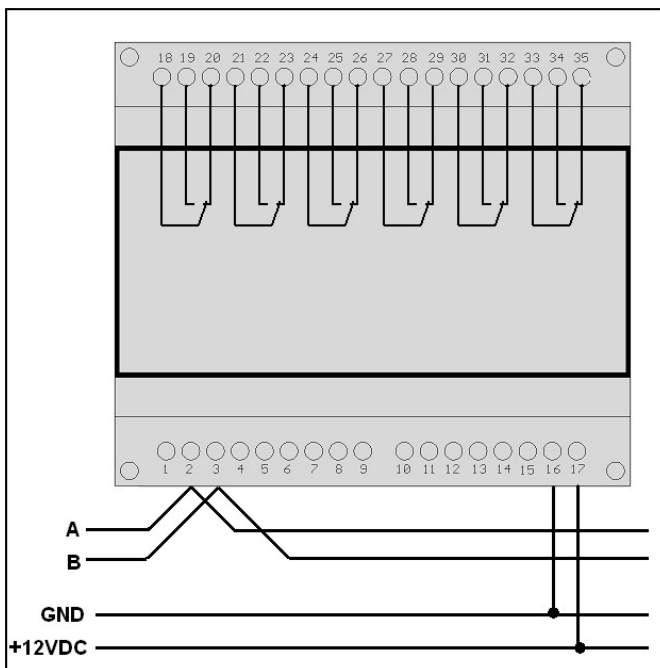
Mono-wire or multi-wire at least 0.75mm<sup>2</sup>;

### **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)).

