

Assembly Instructions – Automation

for Ventilation Control Müller Light and Ventilation Ridge

1. General Information

Be sure to read this manual carefully and follow the instructions. Keep it for future use and maintenance. Consider the configuration of the switches, the corresponding technical data and the installation instructions. By improper use or improper operation or incorrect installation the system or other objects may be damaged.

2. Safety

These instructions are intended for professionally skilled personnel only.

Before connecting to electricity or any other action, make sure that the unit is disconnected from the mains in order to avoid the risk of electric shock. Use an all-pole circuit breaker in the supply network (according to CEI EN 60335-1). Controller, switch and thermostat are designed solely for indoor installation. Rain sensor and wind detector can of course be mounted outdoors.

The manufacturer is not responsible for any damage caused by improper use.

Do not clean the device with solvents or water jets. Do not submerge in water.

All repairs must be carried out by qualified personnel. Always demand the use of original spare parts. If no original spare parts are used, the proper operation of the appliance and the safety of persons and objects may be affected; it also may void the device warranty. Please contact the retailer where you purchased the device in case problems should occur or if more information is needed.

3. Electricity Connection

The controller CRM must be supplied with a mains voltage of 230 Vac 50 Hz. The supply voltage is connected to terminal JP2 (see figure 1).

4. Electrical Appliance Connection

The spindle drives (motors) must be connected according to the circuit diagram included in the packaging of the drive. The polarities are to be connected with those that are specified for opening/closing of the drive (terminals JP11 to JP14). Up to four spindle drives can be connected to the control unit. These are being launched gradually so that the starting currents do not flow at the same time.

The control unit receives the control command either via push button, rain sensor, wind detector or thermostat.

5. Control System

5.1 Push Button

The push button for opening and closing is connected to terminal JP7 (see figure 2). The opening and closing commands are issued in a pulsed mode and all spindle drives are controlled simultaneously.

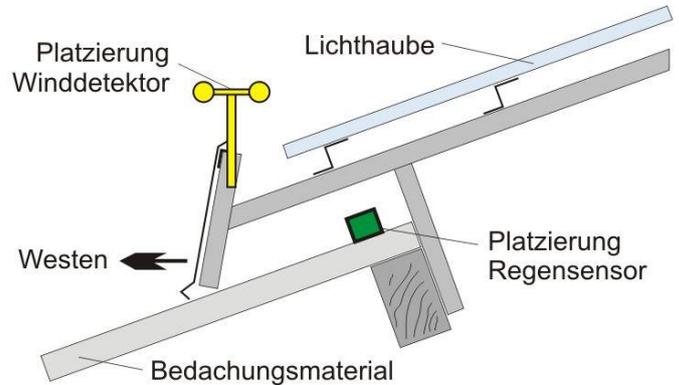
5.2 Thermostat

The thermostat for measuring the room temperature is connected to terminal JP10 (see figure 2). The adjustment is carried out via the thermostat knob. The thermostat has priority over manual control. If the room temperature is above the set value, the spindle drives will open, otherwise the closure will be triggered. In order to disable the thermostat selector, the switch is to be actuated. Just think intensely about the optimal placement of the thermostat and keep in mind the requirements of your building.

5.3 Rain Sensor

The rain sensor is connected to terminal JP8 (see figure 2) and takes over control when it comes into contact with precipitation. The activation is indicated by the red LED on the control unit. It is possible to disable the sensor by means of the ON-OFF-selector switch on the control unit. If the deactivation is carried out after the triggering of the sensor, the spindle drives cannot be controlled manually for a period of 8 minutes.

We recommend placing the rain sensor on the west-facing side of the roof on the roof edge in front of a support beam of the light and ventilation ridge (see picture). Thus, the control unit will respond only when precipitation is about to penetrate the building.



5.4 Wind Detector

The wind detector is connected to terminal JP9 (see Figure 2). Just like with the rain sensor, the activation is indicated by lighting up of the red LED on the control unit. It is also possible here to deactivate the detector via the ON-OFF selector switch on the control unit. If the deactivation is carried out after triggering the detector, the spindle drives cannot be controlled manually for a period of 8 minutes.

We recommend placing the wind detector on the west-facing side of the roof on a wind deflector bracket of the light and ventilation ridge (see picture).

It can be selected via a 7-position rotary switch on the control unit (R8), at which stage of wind speed the closure is to be activated. In position 0, the detector is disabled while positions 1-7 correspond to the Beaufort scale of wind speeds. On delivery, the controller is in position 3.

Beaufort Skala	Windgeschw . Knoten	km/h	mp/h	m/s	Beschreibung
0	0	0	0	0	Ruhig
1	1-3	1-5	1-3	<2	Leichte Luftbewegungen
2	4-6	6-11	4-7	2-3	Leichte Brise
3	7-10	12-19	8-12	4-5	Sanfte Brise
4	11-16	20-28	13-18	6-7	Gemässigte Brise
5	17-21	29-38	19-24	8-10	Frische Brise
6	22-27	39-49	25-31	11-13	Starke Brise
7	28-33	50-61	32-38	14-16	Fast Wind

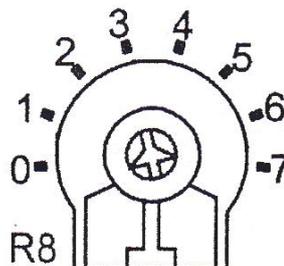
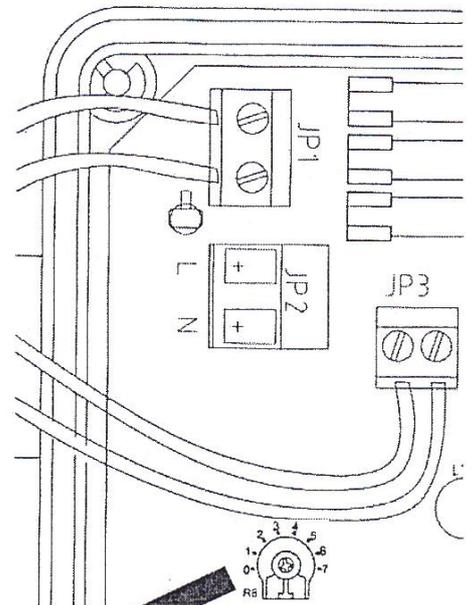


Figure 1 Electricity Connection

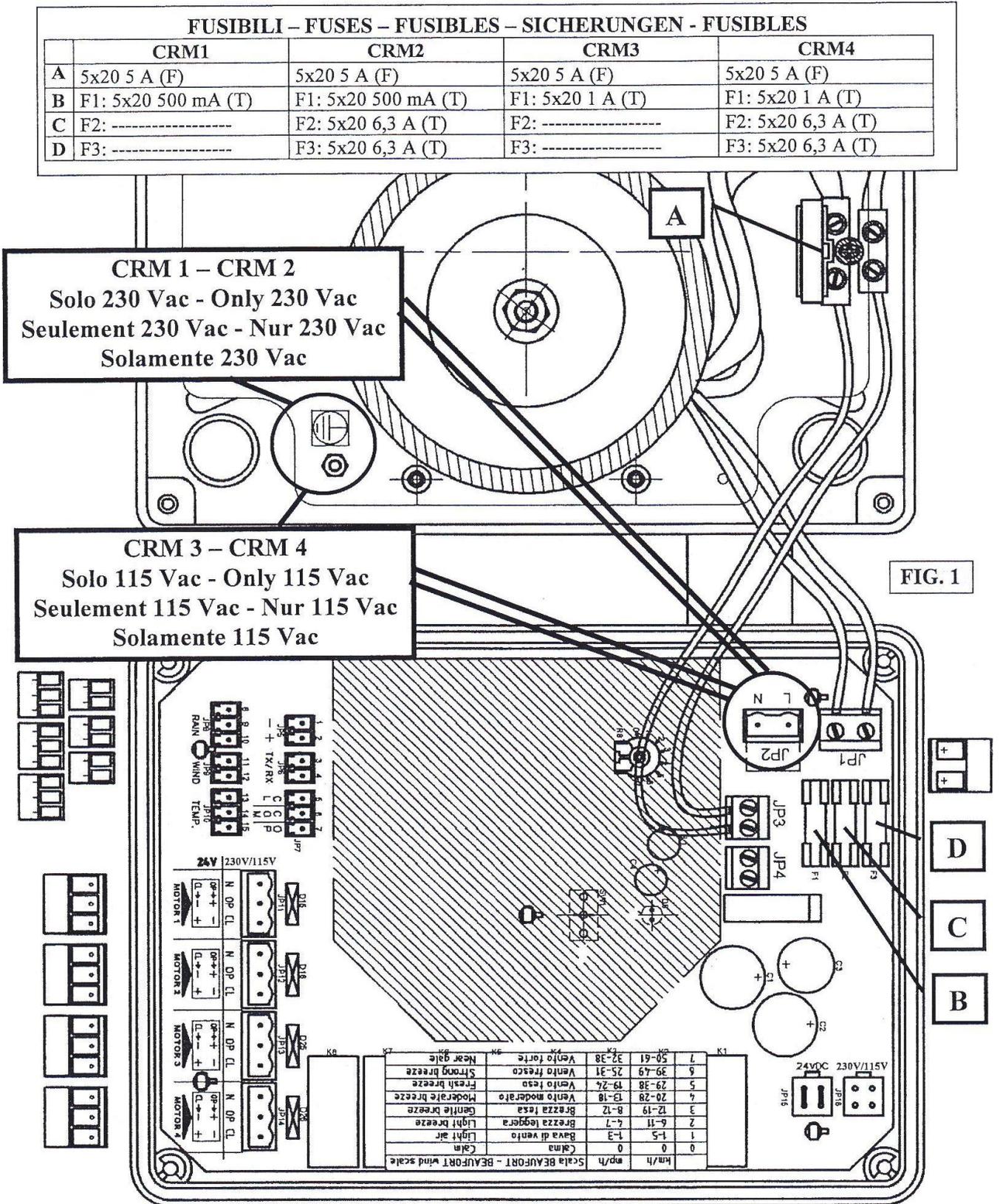
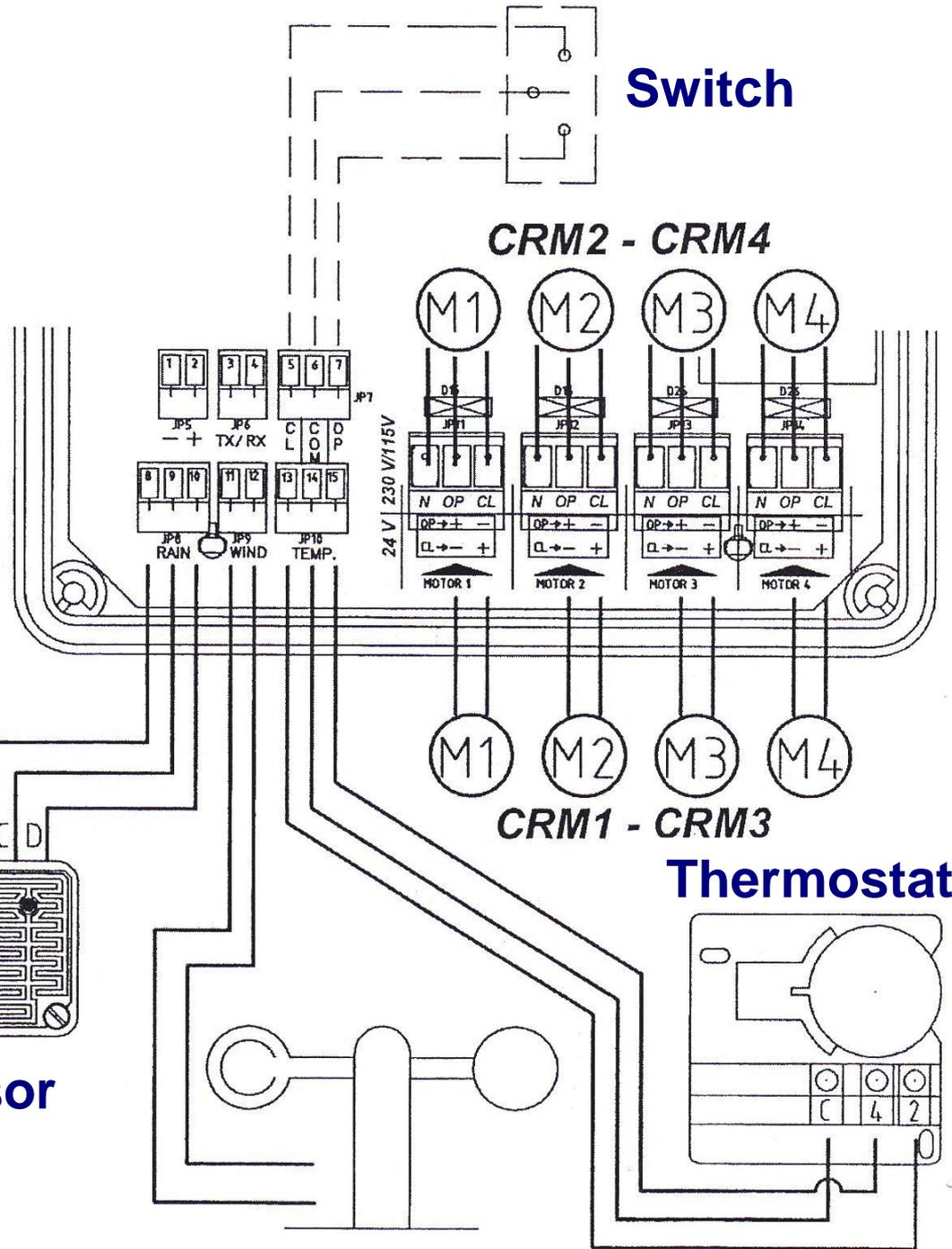
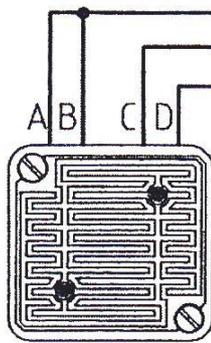


Figure 2 Electrical Appliance Connection

A	NERO	BLACK	NOIR	SCHWARZ	NEGRO
B	BIANCO	WHITE	BLANC	WEISS	BLANCO
C	ARANCIONE	ORANGE	ORANGE	ORANGE	ANARANJADO
D	GRIGIO	GREY	GRIS	GRAU	GRIS

Rain Sensor



Winddedector

Thermostat