

GENERAL

MCU8201MT is a low-cost DIN rail, 24 Volt venetian blind controller. Compared to MCU9201 it does not have the data connection, so it's operated through pushbuttons/dry contacts only. The controller has inputs for both group and individual operation.

GROUP OPERATION

Groups are defined by wiring, and each controller can be a part of up to two groups where individual operation, if desired, will also be defined as a group. This means, that in an apartment a blind can be part of for example subgroup "kitchen" (terminal 3+4) and maingroup "all" (Terminal 5+6). If individual operation are desired, this is connected to terminal 3+4, where group "kitchen" or "all" are connected to terminal 5+6.

INSTALLATION

Always switch off the power when wiring the system. Start by making the interconnections on a few controllers as shown in the figure below. Then put power to the system to see that everything works as expected. This way it is prevented to do a serial mistake on larger systems.

Take care that there are no shorts or bad connections. When connecting the power supply, it is important that + and - is connected correct on all controllers. Even though the controller is protected, a wrong connected power supply, can damage the controller. Power must NOT be applied to the controller before all wires are correctly connected.

Wire dimensions for the power supply cables should be 0.75mm². Avoid long cables (more than 2 meters) between powersupply and controllers. If the cables to the motors have to be extended the wire dimension should be app. 0.75 mm².

Common wire for the operating pushbuttons is +24VDC. The two sets of operating inputs are separated electrically inside the controller, however functionality of the two sets of inputs will have the same functionality at any time.

Do not connect +24VDC to the motor or encoder wires, as this may damage either the motor, the venetian blind or the controller.

The blind height should be programmed into the controller after installation is finished. It is done by connecting terminal 7 to ground for two seconds, putting the blind to the correct lower position by using the pushbuttons; once the blind is in correct position terminal 7 is again connected to ground for two seconds. The procedure can be repeated if the programmed height needs to be adjusted.

Connections

Terminal 1: +24VDC
Terminal 2: GND
Terminal 3: Blind down (active low)
Terminal 4: Blind up (active low)
Terminal 5: Group down (active low)
Terminal 6: Group up (active low)
Terminal 7: Programming/data (active low)
Terminal 8: Motor -
Terminal 9: Motor +
Terminal 10: Encoder

Connection Diagram

