DTRVBT01 module

The DTRVBT01 module allows the command of shutter of which the motor is supplied by low continuous tension. This type of command needs the inversion of polarity of tension supply from the motor to obtain the inversion of the movement. The controled equipments may be roller shutters, stores, curtains,...
The detection of position (high or low) is done by the measure of the higher consumption of the motor when the shutter is comming at the end of its running.
In order not to damnage the mechanical part of the shutter, The DTRVBT01 module applies automatically a delay of two seconds while inverting the movement.
Each DTRVBT01 module can only control one shutter.

● Supply of the motor

The maximum tension of supply of the motor may not exceed 24 V. This tension is not supply by the module and needs therefore to use an independant power supply.
Please verify that this power supply does not include an internal electronical control of the shutter. Verify also to install the power supply near to the module DTRVBT01 and to use a fitable cable section.

● Mounting instructions

The module DTRVBT01 must be installed by a qualified electrician and respect the electrical reglementation to be applied.
The module is to be fixed on a Din rail inside of the electrical cabinet.

● Connections

The connection of module DTRVBT01 to the bus occurs trhough a quick connector.
The connections between the module DTRVBT01 and the other modules of the installation are made with the cable Domintell DCBU01. Please follow the cabling colors indication while linking them with the quick connector.
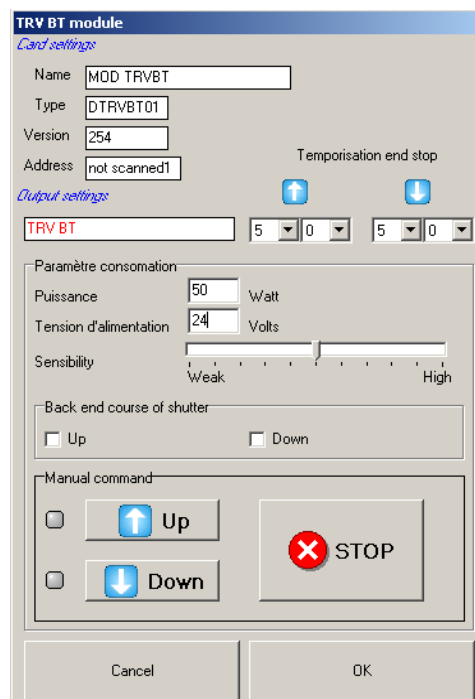The power supply tension must be applied on the screw terminal showed INPUT. The connection with the shutter is made from the screw terminal showed MOTOR. While connecting, please make sure to respect the polarities showed upper to each terminal. If the functions High and Low are not corresponding with highering or lowering of the shutter, invert the 2 cables to the screw terminal MOTOR.
Please have a look at the schema of cabling illustrated at the back of this document.

● Module parametering

The parametering of the module DTRVBT01 is made from the configuration software Domintell 2 (version 1.13.00 et superior).
To access the parametering screen make a right click on the icone « TRV BT » and select the option Edit.

Module Parameters
These parameters indicate the name, the type, the version and the address of the module. Only the name is to be modified.

Outputs parameters

Limit switch temporisation:
These parameters are there to determine the maximum duration of working time for the output. They guarantee the shut off of the command send to the shutter even when no highering or lowering parameters weren't defined in the links for controling the shutter.
Please select in the list the values of appropriated temporisations. These values must be superior to the high or low parameters defined in the controling shutter links.

Power :
Please indicate in this space the power of the shutter motor.

Supply tension:
Please indicate in this space the supply tension of the shutter motor.

Sensibility :
This parameter allows you to regulate the sensibility while detecting the mechanical stop block of the shutter. The adjustment is possible in a scale going from -20%(low) to + 20%(high) by moving the cursor on the graduated scale.

Limit switch back of the shutter :
This parameter allows you to invert automatically for a second the movement of the shutter when it reaches its end course position. This function permits to release the mecanical running of the shutter. Mark the appropriate space to this mouvement to activate this function.

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- *Manual commands*

The manual commands are there to control the shutter directely from the computer. No link is needed to proceed to this handling. This handling requires to put the system into the mode « Master stand alone Pc active » (Master menu).

From this function you can adjust directely the highering and lowering of the shutter and sharpenning the end course sensibility detection.

While manually controling, the movement of the shutter is indicated with the changement of the icones color situated left from the command buttons.

- *Technical specifications*

Module supply	From 9 to 16 V DC
Bus connection	Quick movable connectors
Shutter connection	Screw terminal
Supply connection	Screw terminal
Number of command	1 shutter
Type of command	Relay
Maximum shutter power	200 W (peak)
Maximum shutter tension	8 A
Maximum power supply	24V
Protection degree	IP 20
In use temperature	-10°c à 50°C
Fixation	DIN Rail
Dimensions	2 modules
Consumption	65 mA

- *Cabling schema*