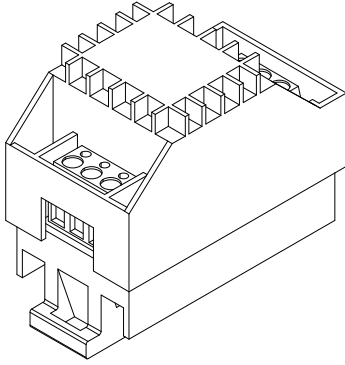
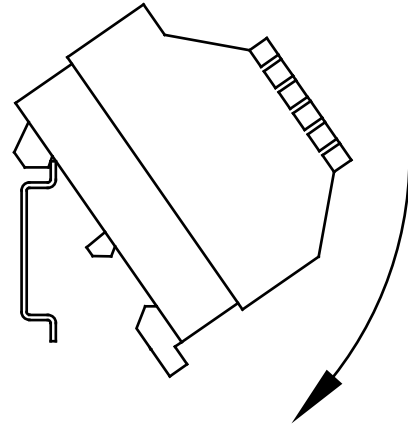


Installation, operation, and maintenance may only be carried out by qualified electricians. Follow the installation instructions described. When installing and operating the device, the applicable regulations and safety directives (including national safety directives), as well as general technical regulations, must be observed.



CAUTION
Disconnect power before installing or servicing.
To start operation, all wires must be connected.

DIN rail mounting 35mm or 15mm



CAUTION
Risk of destruction!
Not used latches may not be removed.

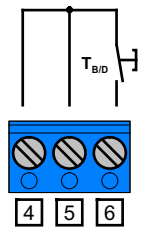
Connecting the control elements

T_{BiD} Button bright/dark

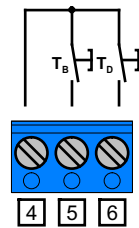
T_B Button bright
T_D Button dark

*The resistance must be selected between 1k Ohm and 10k Ohm

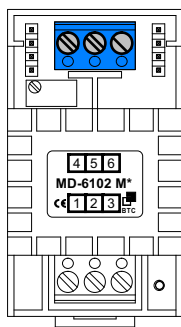
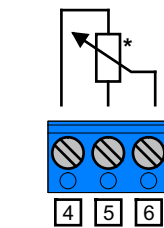
1-key operation



2-key operation



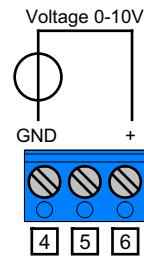
potentiometer operation



CAUTION
At starting operation the dimmer detects automatically which control is used.

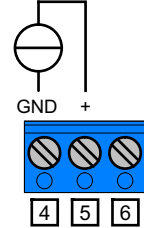
Current or voltage control
Connecting the lines of the analog signals

Use shielded cables and connect the shield on one side to terminal 4.

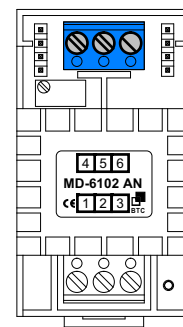


R_{Input} 22k Ohm

Current 0-20mA



Load R_B 50 Ohm

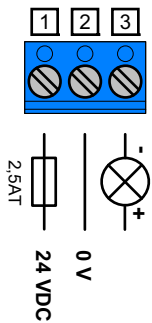
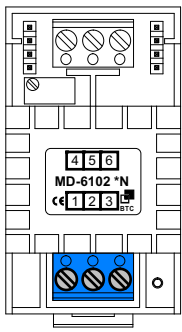


CAUTION only MD 6102 AN / AP

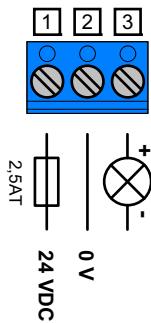
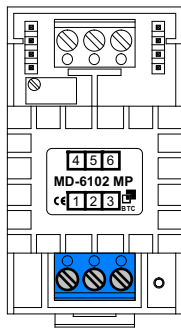
Connecting power supply and load

5

Negative Dimmer MD-6102 MN/AN



Positive Dimmer MD-6102 MP/AP



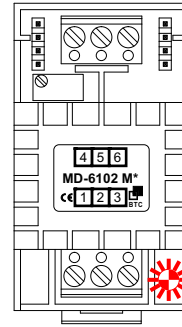
3 load output dimmed 0V

3 load output dimmed 24V

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Starting operation by power on

6



Operation is indicated by flashing LED.

Permanent active LED indicated an error, e.g. short circuit



For the functional test must be at least a lamp or an indicator connected.

1-key operation

Push the button. If a keystroke is recognized, the brightness changes by one step in the current valid direction. At continuous pressed key there is another brightness step every 12 ms until the end position is reached. The motion direction is changed after a break of 600ms between two keystrokes.

2-key operation

By pressing the button for bright or dark changed the brightness by one step. At continuous pressed key there is another brightness step every 12 ms until the end position is reached.

Potentiometer operation

The brightness changes by turning the potentiometer.

Analog signal operation

With increase of voltage or current increases the brightness.

Adjust the basic brightness

7

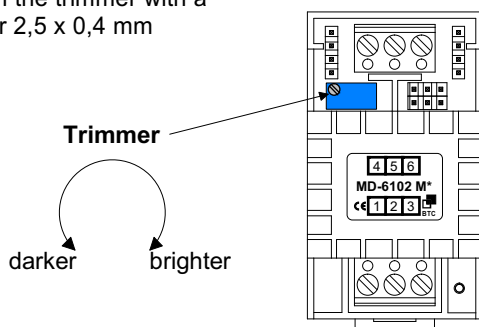
For the functional test must be at least a lamp or an indicator connected.

On the dimmer can be adjusted the basic brightness, that is to say the slightest dimmable brightness

First must be adjusted the minimum brightness by the connected control element.

See section **6**

Now the basic brightness can be adjusted on the trimmer with a screwdriver 2,5 x 0,4 mm



CAUTION

By slipping danger of short circuit!
Use preferably Trimmer Adjusting Tool.
e.g. Vishay Spectrol ACCTRIOTB308-T000 etc.

Master Slave Cascading by jumper

8

With the jumper ST6002 an unlimited number of Dimmer can be cascaded.

Here, the left dimmer module is the master module. On master their controls or analog signals can be connected and the basic brightness adjusted with the trimmer. All connected dimmers follow the master and are electrically isolated from each other.

Modules may be combined as desired.

