



ALTEMBURGER

ELECTRONIC GMBH

Manual for auditorium dimming control type NS6WV

Characteristics

The NS6WV is a lighting control module which is suitable for the control of lighting control systems with fluorescent lamps ballasts or electronic transformers which are operated via the low-voltage interface of 1...10V. Moreover all ALTEMBURGER phase-controlled or phase-interval controlled load modules can be operated with the control voltage of 0-20V. Therefore the NS6WV is suitable for an universal control of incandescent, fluorescent and low-voltage halogen lamps.

Functions

At the NS6WV the following functions can be performed:

- Setting of 6 different light levels (with back indication) to be selected at remote control panels or individual pushbuttons
- brighter or darker dimming function from the set light value
- Setting of fade times from brighter to darker between 3 and 60 secs. for the light value selection and brighter/darker function
- ON/OFF function with an integrated potential free relay contact

Preadjustment of light values:

The NS 6WV enables the selection of 6 different, preselectable brightness values. These brightness values can be preadjusted between 0 and 100 % with potentiometers at the control module.

The selection of the light values is made via a pushbutton panel or via single buttons. The selected light value can be marked with a control lamp at the pushbutton.

Brighter / Darker function:

Besides the setting and selecting of light values the NS6WV offers the possibility to set light value with the function brighter or darker. The setting of the required value is made via pushbuttons BRIGHTER or DARKER at the control panel or with individual pushbuttons. The lighting is dimmed brighter or darker during the continuously pressing process. After releasing the pushbutton the last light value will be stored.

Fade time adjustment

With a delay time potentiometer at the NS6WV the transfer times for the selection of the individual light values and the brighter/darker function can be adjusted. Transfer times of approx. 3 to 60 secs (0 to 100% and vice versa) can be adjusted.

ON/OFF Function

As a single button function or with separate buttons for ON and OFF. The voltage-free contact of the relay is wired to a terminal on the device. It is suitable for switching max. 10A(250V~). Larger Loads are switched via external contactors or relays. The internal relay can be actuated with one button for ON/OFF (latching relay function) as well as with separate buttons for ON and OFF. With this, central switch-on and switch off functions are possible.

Storing the functions

The NS6WV stores the set light levels as well as the last selected light levels of the run in BRIGHT or DARK.

Also, after a power failure, the last selected light level will be adjusted automatically and the load relay will be set to the previous position.

Control voltage output:

With a rotary switch at the NS6WV the required control voltage can be selected. The switching over to be made only in a voltage-free state !

Position 1-10V: output voltage for fluorescent lamps ballasts or transformers which are operated via low-voltage interface 1...10V. The maximal connected load is 200 mA (approx 200 electr.ballasts or transformers-kindly refer to manufacturer's instructions).

Position 0-20V: output voltage for ALTENBURGER phase-controlled or phase-interval controlled load dimmers. The maximal connected load is 20 mA (20 ALTENBURGER load dimmers).

Remote control panel, pushbuttons, indicator lamp and external nominal value potentiometer:

For the control of the NS6WV a customer-specific panel can be obtained. Besides all customary pushbuttons can be used. Any number of control panels or pushbuttons can be operated in parallel. For the back indication of the selected values Multi-LEDs (24V) have to be used with a minimum of 4 serial-LEDs.

A parallel switching (max.2 to 3 LEDs) leads to loss of light intensity.

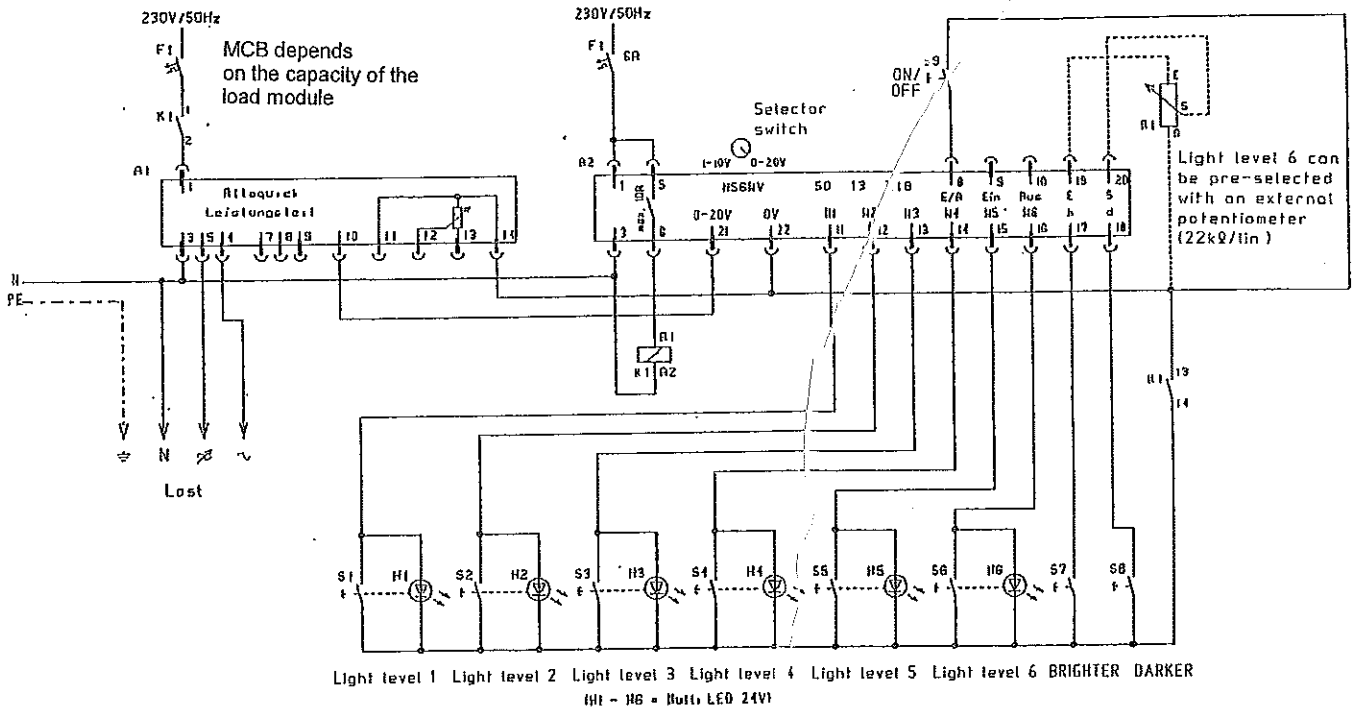
As an external preselection-potentiometer a 22 KOhm-potentiometer can be used.

All remote devices are supplied by a max. of 24V. These control voltages however are galvanically separated from the mains. Base-isolated low-voltage separation. No tangible protection low-voltage.

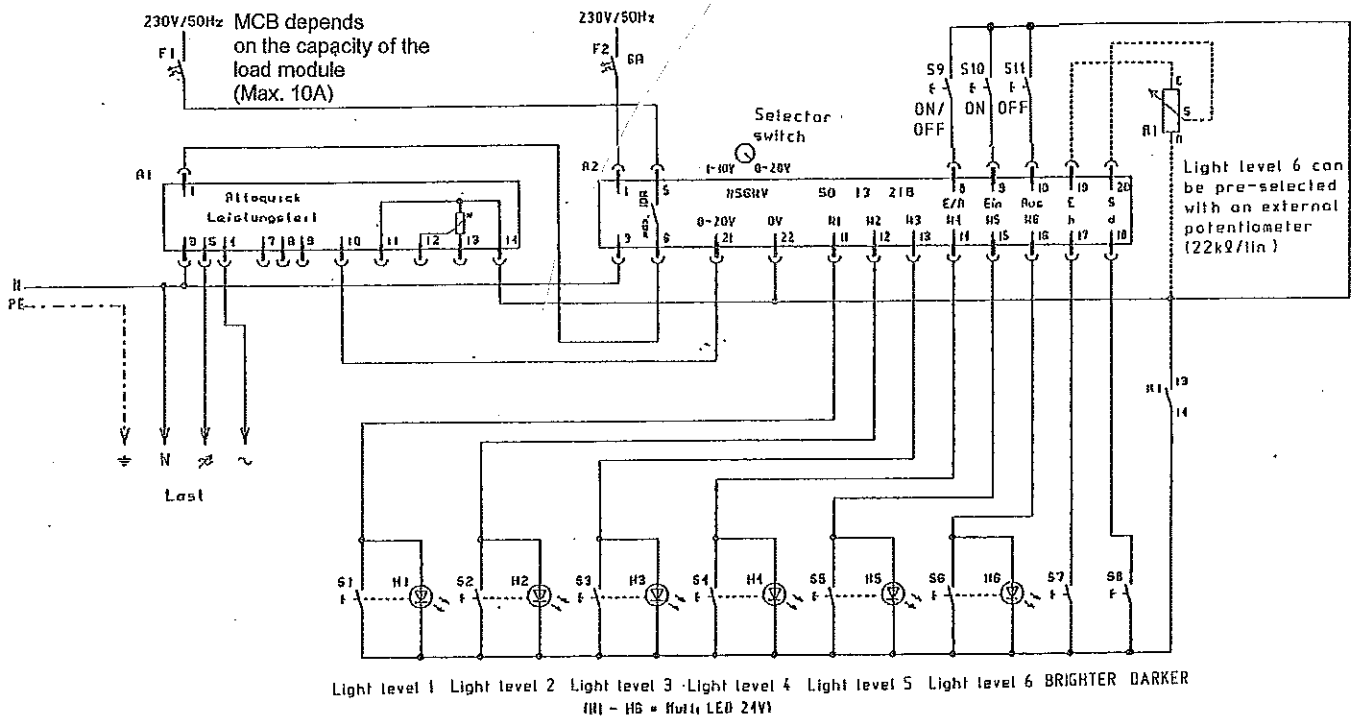
Technical data:

Designation:	Electronic auditorium dimming control Type NS6WV, Order-no.: 50.13.218
Dimensions (WxHxD):	175 x 85,5 x 67 mm for DIN rail systems
Weight:	490 gr
Ambient temperature:	0°C... + 45°C (at vertical mounting position)
Terminals:	screw terminals for solid wires 0,5 mm ² - 4 mm ²
Max. cable length:	100 m (control wire 0,5 mm ² , load and supply wires 1,5 mm ²)
Nominal load:	210 V~ ...240 V~, 50 ..60 Hz, DC not permitted (destruction)
Own consumption:	3 W
protective type:	II (protective isolated)
Supply:	L (1), N (3)
Control and load terminals:	see wiring diagrams
Range of control voltage:	< 24 VDC (no protective isolation) Basis isolation according to IEC 664,10/92
Fade time:	adjustable between 3 and 60 secs. (from 0 to 100% and vice versa)
Max. load at the control exit 1-10V:	max. 200 mA (= approx.200 electr.ballasts or transformers kindly refer to manufacturers information)
Max. load at the control exit 0-20V:	max. 20 mA (20 Altenburger load dimmers)
Max. load switch contact:	10A, 250V~ / 50...60Hz (approx.30 electr. ballasts 58 W or 2kW)

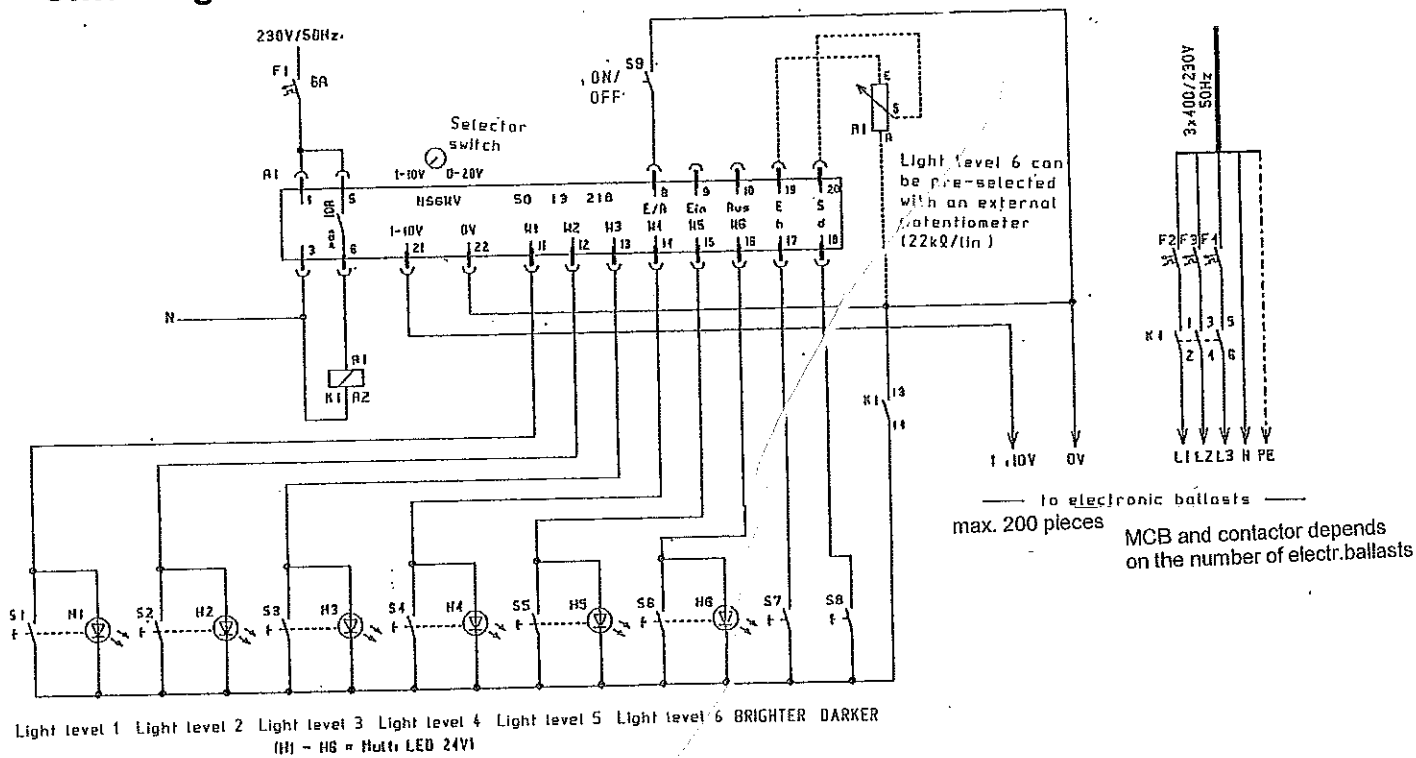
Wiring diagrams:
Universal auditorium dimming control NS6WV for the control of AQ-load dimmers, ON/OFF switching with external load relay



Universal auditorium dimming control NS6WV for the control of AQ-load dimmers, ON/OFF switching with internal relay



Universal auditorium dimming control NS6WV for the control of electronic ballasts or transformers via the low-voltage interface 1..10V , ON/OFF switching with external relay



Universal auditorium dimming control NS6WV for the control of electronic ballasts or transformers via the low-voltage interface 1..10V , ON/OFF switching with internal relay

