ALTOQUICK (AQ-dimmers) operating in the phase-controlled mode (leading edge) for DIN rails

Types: AQ 1,3 KW and AQ 2,0 KW

AQ 1,3 KW
Order-no.: 50.13.010

AQ- 2,0 KW
Order-no.: 50.13.210

The dimmers are operating in the phase-controlled (leading edge) mode. They have a harmonics filter and an interference protection better than grade ‚N' according to VDE 0875.
They are suitable for the control of incandescent lamps, high-voltage halogen lamps, low-voltage halogen lamps (with wire-wound transformers) and neon lamps (with high-voltage transformers). They have an autonomous current supply with separated minimum and max. adjustments with trimmer potentiometers at their panel face. An external control with 0-10V D/C makes them suitable for numerous external controls.

Operation with the internal potentiometer

The internal rotary potentiometer has a left hand switch. It is turned on and dimmed brighter to the right and dimmed darker and switched OFF to the left.

Operation with an external potentiometer

An external rotary potentiometer can be mounted up to a distance of 100 m. It has the same functions as the internal potentiometer. It can be operated only if the internal potentiometer is switched ON. Consequently there is no galvanic separation from the power supply. This separation always should be made with the switch at the internal potentiometer. The switch contact at the external potentiometer can be used for the operation of contactors. If a latching relay is connected a rotary potentiometer with integrated pushbutton is to be used. If a sliding potentiometer (slider) without switch is used the ON/OFF operation has to be made by a separate switch.

Load amplification

For the amplification of the total load up to 3 Dimmers AQ-1,3 KW or AQ 2,0 KW can be combined. In this case the potentiometers at 2 dimmers are without function. All 3 AQ's are to be operated with the potentiometer of one dimmer. Please observe that the switches of all potentiometers are switched ON. Any phase relation is possible. With the master control dimmer type AQS (page 19/20) up to 40 AQ-dimmers commonly can be controlled. Each dimmer can be operated with any load within its load capacity.

External potentiometers see pages 21-25.

For external control modules for different applications please refer to the list of contents (page 2).