

ALTOQUICK (AQ-0) operating in the phase-interval controlled mode (lagging edge) for DIN rails

Types: AQ-0 0,7kW and 1,4kW



The dimmers are operating in the phase-interval (lagging edge) controlled mode.

They are suitable for incandescent lamps, high-voltage halogen lamps and low-voltage halogen lamps with electronic transformers.

The load exit is protected through:

- Electronic switch ON current limitation
- Electronic current limitation in case of a short circuit
- Load limitation in case of overloads
- Load reduction if the maximal permissible temperature is exceeded
- Switch Off at non-permissible voltage peaks (inductive load). The module is to be activated after switching OFF and ON again.

The dimmers are suitable for DIN rails. They have an autonomous power supply with separate minimum / maximum adjustments through trimmer potentiometers to be operated at the panel face. The control of the dimmers is made with an internal rotary potentiometer with integrated ON/OFF switch (also to be mounted outside the dimmer in a distance up to 100m). In order to enable a variety of functions all external controls can be made with 0-10V / 0-20V D/C interface.

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 the 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 pushbutton can be used. If a sliding potentiometer (slider) without switch control is connected the ON/OFF operation has to be made by a separate switch or pushbutton.

Load amplification

For the amplification of the total load up to 3 Dimmers AQ-0 0,7 KW or AQ 1,4 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) up to 40 AQ-dimmers commonly can be controlled. Each dimmer can be operated with any load within its capacity.

External potentiometers see pages 21-25