

AQ-Multi-Function Universal-Dimmer, type AQ 1500-MFU

with automatic load identification

Order-no.: 50.13.000

The AQ 1500-MFU is suitable for ohmic, inductive and capacitive loads up to a capacity of 1500 W/VA.

With the selector switch at the module the automatic operation or one of the possible modes of manual selections can be made. In the automatic mode the dimmer performs after its connection to a power supply a short load identification. It such selects the dimming mode according to the connected load. For incandescent lamps and high-voltage halogen lamps (ohmic loads) the phase-control mode (leading edge) is selected. For low-voltage halogen lamps with electronic transformers the phase-interval control mode (lagging edge) is selected. A mixture of capacity and inductive loads or a function without load is not permissible:



The load output provides:

- an electronic current limitation (in case of switch ON-/overload- and short circuit currents).
- load reduction if the max. permissible temperature is exceeded. Switch ON again as soon as max. temperature is achieved again.

At load recognition in the automatic mode at power ON a short flashing of the connected lamps is possible (depends on the kind of load).

In the ALTOQUICK 1500 MFU the following control functions are integrated:

- **1-pushbutton dim-function**
with a short touch (50-400 ms) lighting is switched ON and OFF. Longer pressing the button (> 400ms) lighting continuously dims brighter or darker. When releasing the button lighting stops at the respective level.
This level can be stored with a double click. The fade time can be set between 1 and 60 secs. with a potentiometer at the face plate of the dimmer.
- **2-pushbutton dim-function**
1 pushbutton for ON/BRIGHTER, the second one for DARKER/OFF. With a short touch (50-400 ms) lighting is switched ON or OFF. By continuously pressing one of the buttons lighting goes within the set fade time into its brightest or darkest level. By pressing both buttons during the fade the respective light level is stored. With the ON/BRIGHTER button the set light level after OFF is achieved again. The fade time also in this functioning mode can be set between 1 and 60 secs. with a potentiometer at the face plate of the dimmer.
- **Scene setting**
With 2 additional pushbuttons 2 more scenes can be set. The scenes are set by pressing one of the pushbuttons BRIGHTER or DARKER, releasing the button at the required light level and pressing one of the two additional buttons (preset) for 5 secs. The lighting blinks after the light level is stored. The same is made with a second preset button.
Maximum or minimum light levels not to be exceeded can be set at the maximum / minimum trimmer potentiometers at the front plate of the dimmer.

Control plates see page 47

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for DIN rail systems

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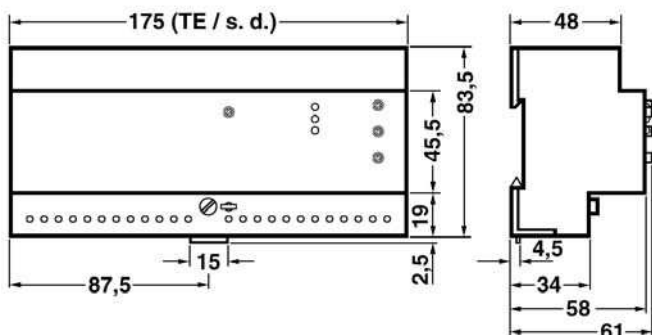
Technical data:

Characterization	AQ-Universal-Dimmer 1500-MFU
Type	: AQ 1500 MFU
Order-No.	: 50.13.000
Power supply	: 230V~, 50/60 Hz, DC not permitted
Protection	: external MCB 10A
Ambient temperature	: 0° - max. 45 °C, natural air-convection at vertical mounting position
Max. load	: 1500 W/VA
Min. load	: 60 W/VA
Output current	: max. 6,5 A~
Protective class	: II
Protective type	: IP 20
Contamination grade	: 2 (dry, non-conductive, according to IEC 664,10/92)
Own consumption	: < 2,0 % of the respectively connected load
Noise level	: < 25 dB(A) at nominal load in a distance of 1 m
Load exit	: electronic current limitation (switch ON-, overload, and short circuit current) - switch OFF if the max. permissible temperature is exceeded - switch ON after the module has cooled down (just the function has been switched OFF)
Terminals	: 0,5 -2,5 mm ² , solid wire or litz wires with sleeve
Wire length	: max. 100 m, load-power terminals min. 1,5 mm ² (terminals 1,3,5)
5 pushbutton inputs	: for the control of the module (normally open contacts)
Selector switch	: for the type of load (inductive load, automatic, capacitive load)
3 Trimmer potentiometers	: for the adjustment of the min. or max. level and the fade time
3 LED's	: for the indication of the state of operation
Housing	: isolated plastic housing for DIN rails
Dimensions	: WxHxD = 175 x 83,5 x 61 mm
Weight	: approx. 520 gr
Designation	: CE
Wiring	: according to wiring diagrams or print on the controls

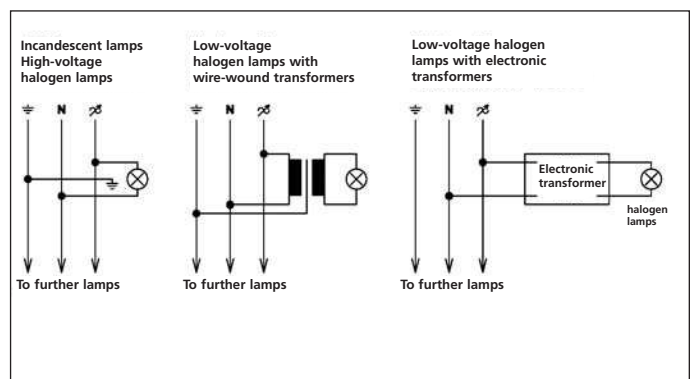
Capacitive and inductive loads may not be mixed up.

In case of wrong wiring, malfunction and destruction is possible !!

Dimensional drawing



Wiring diagrams

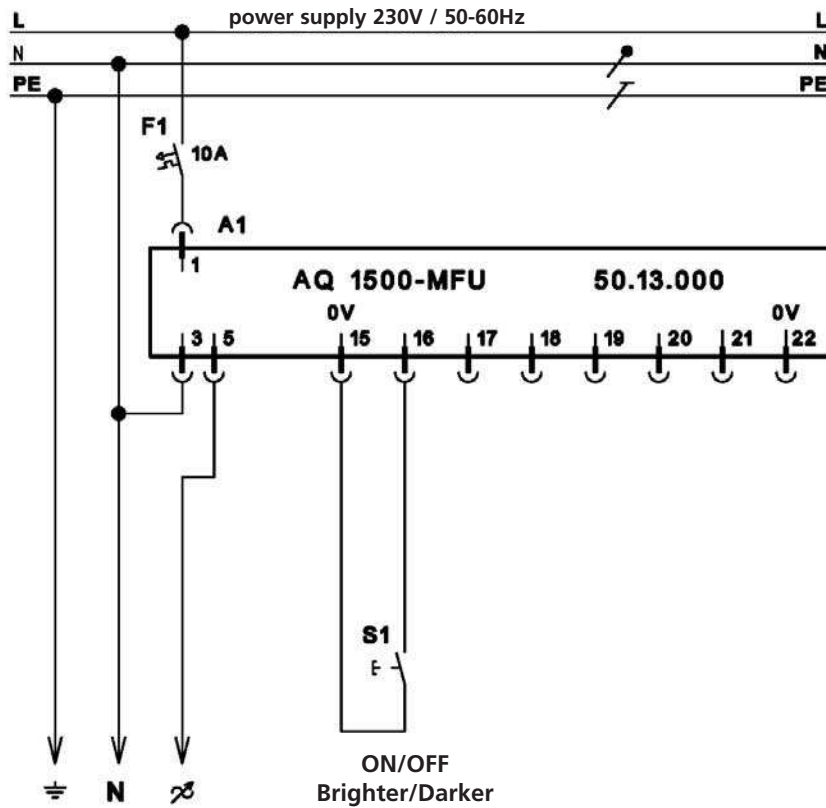


Wiring diagrams

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AQ 1500-MFU with 1-pushbutton dim-function



AQ 1500-MFU with 2-pushbutton dim-function and scene setting

