

ALTENBURGER ELECTRONIC GMBH

77960 Seelbach, Schloßweg 5, phone +49 7823 509 0, fax +49 7823 509 97

E-Mail: info@altenburger.de

Internet: <http://www.altenburger.de>

Operating instructions

EIB Phase-interval controlled push dimmer ALTODIM 1400-0

Type : IBDA1400-0

Order-no.: 80.13.064

Applications and functions

The EIB-phase-interval (lagging edge) controlled dimmer is suitable for the control of incandescent lamps as well as low-voltage halogen lamps with electronic transformers up to a load capacity of 1400W/VA. By receiving telegrams via the EIB-BUS-System it is suitable for the dimming and switching of the connected load between minimum and maximum brightness.

The dimmer can be controlled by EIB-Sensors as well as by pushbuttons (customary pushbutton) connected to the pushbutton input.

Pushbutton input

The pushbutton input can be parametrised with the ETS-software to control its own dimmer output or other devices. (application note).

Several pushbuttons can be operated in parallel. They must be approved for a power supply of 230V~.

ON / OFF-Switching

In the "OFF" position the dimmer sets the connected load to 0V. The load is not disconnected from the power supply (function switching). With the "ON" command the dimmer controls the connected load into the programmed switch-On value.

Loads

The dimmer controls loads between 60 and 1400W/VA (incandescent lamps and low-voltage halogen lamps with electronic transformers). Wire-wound transformers or inductive loads may not be connected. The total load may not exceed the nominal load of the dimmer. The power dissipation of the electronic transformers as well the power factor have to be considered. The nominal current of the dimmer may not be exceeded. The connection of dimmed outlets of several dimmers is not permitted.

Electronic transformers:

The electronic transformers has to be connected only with the supply side to the dimmer (primary side). For maximum loads please refer to the supplier's manual. A no-load operation is not permitted. Electronic transformers may be connected only if they are suitable for an operation in the phase-interval (lagging edge) mode. Control of wire-wound transformers or inductive loads is not allowed. This could damage the dimmer as well as the transformers.

Load exit

- Electronic current limiting (switch-on, overload / short-circuit current)
- Voltage-drop when exceeding the max. permissible temperature
- Switch off at inadmissible temperatures, electrical reclosing after cooling down (function switching)

Safety and Installation instructions

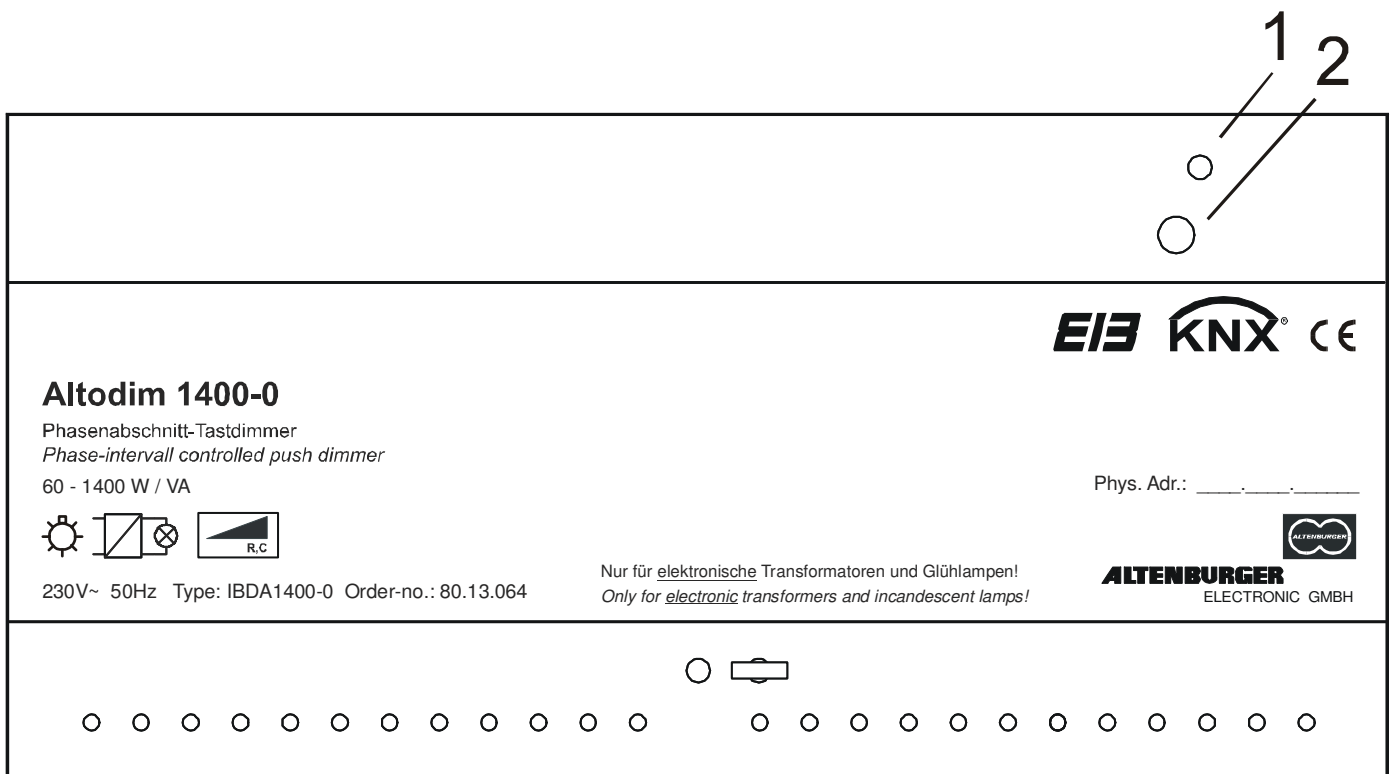
- The dimmer should be installed and tested only by a qualified electrician.
- Power to the dimmer must be switched off before any work is undertaken.
- The dimmer may not be opened and operated outside its housing.
- The relevant safety and accident prevention regulations and installation instructions to be observed.
- The dimmer produces heat and must sufficiently be cooled by air convection.
- The dimmer may be installed only in a vertical mode (terminals on bottom).
- Wiring shall be made strictly according to the wiring diagram at the designated terminal
- The dimmer must reliably be snapped on the DIN-rail.

Delivery status

In the delivery status the dimmer can be handled in a 1-push-function:

short pressing – on/off / long pressing – brightness adjustment

After the switch ON operation or voltage drop the dimmer returns with the status prior.
(EIB-power supply must be connected)



1 = Programmier-LED *Programming LED*

2 = Programmier-Taste *Programming pushbutton*

Technical Data

Designation	: ALTODIM 1400-0
Type	: IBDA1400-0
Order-no.	: 80.13.064
Power supply	: 230V~ 50Hz, DC not permitted
Protection	: external 10A
Operating temperature	: 0°C ... +45°C; natural air convection at vertical mounting position
Max. load capacity	: 1400W/VA
Min. load capacity	: 60W/VA
Output current	: max. 6,10A~
Protection class	: II (total insulation)
Type of protection	: IP20
Contamination grade	: 2 (dry non-conducting)
Own consumption	: < 2% of the connected load
Noise level	: < 25dB(A) at nominal load in a distance of 1m
Pushbutton input T	: max. 250V~ (pushbutton for power supply)
Load exit	: - electronic current limiting (switch-on, overload / short-circuit current) - voltage-drop when exceeding the max. permissible temperature - switch off at inadmissible temperatures, electrical reclosing after cooling down (function switching)
Terminals	: screw terminals 0,5mm ² - 2,5mm ² , for solid wires or litz wires with sleeve
Wire lengths	: max. 100m, min. 1,5mm ² (terminals 1, 3, 5, 6)
Mounting	: housing with catch spring for DIN rails
Dimensions	: WxHxD=175x83,5x58mm (10 divisions)
Weight	: approximately 450gr
EIB	: EIB-cable (terminals 21, 22)
Power supply EIB	: 24VDC (+6V/-4V) EIB-power supply
Power consumption	: max. 230mW at 29VDC
Labelling	: EIB, KNX, CE
Wiring	: according to wiring diagrams and imprint on the controls

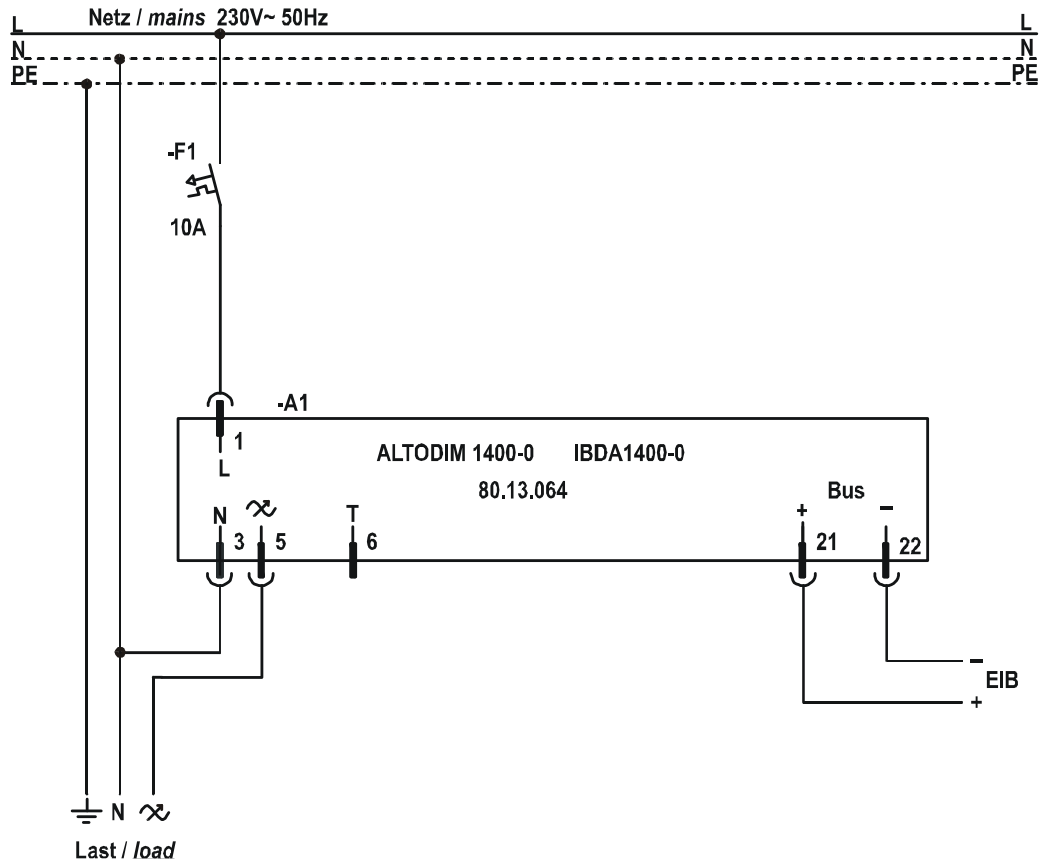
Attention ! If incorrectly connected there is a risk of failure, malfunction or destruction

Software: details see application note

The technical data refer to the nominal loads and the indicated power supply.

Wiring diagrams:

ALTODIM 1400-0



ALTODIM 1400-0 with additional pushbutton

