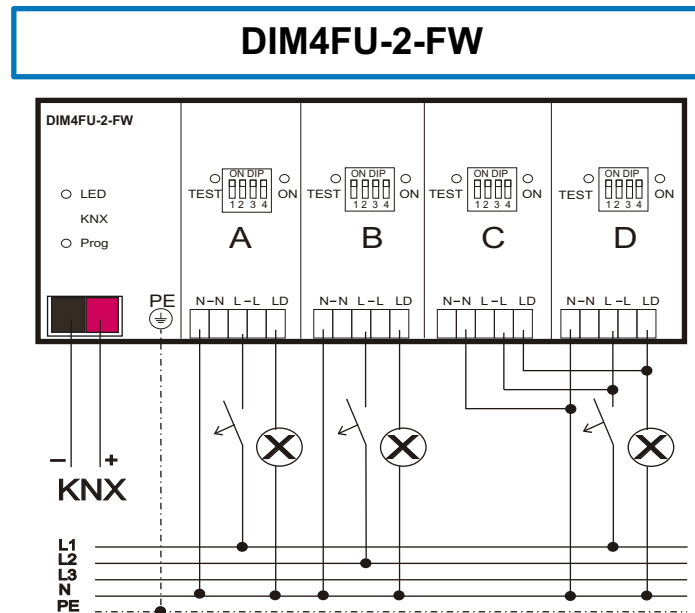


The *eibDUO* 4-fold universal dimmers are suited for all established dimmable types of lighting. The 4 separate load terminals can be connected to 2.5 A loads each. The control circuits automatically identify the load and switch from leading-edge to trailing-edge control. Two dimmer load terminals (A+B or C+D) can be connected in parallel to allow a higher load.

- energy-saving lamp
- standard bulbs
- Retrofit LED lamps
- mains voltage halogen lamps
- low-voltage halogen lamps with magnetic or electronic transformer

max. group addresses	76
power supply	230V AC 45...65Hz
protection class	IP 20
dimensions	216 x 90 x 50 mm (12 RU*)
installation	35 mm DIN rail
operating temperature	-5 ... +40°C
max. start-up peak/channel	26 A
maximum load per channel	2.5A
Minimum load per channel	1W ohmic
power dissipation	
at rated load	4.7W per channel
at standby	0.4W per channel
short-circuit protection	electronic instant shut-down
overload protection	temperature monitoring (75°C)
dimming technology	automatic leading/trailing Edge detection

*RU = rail unit



WARNINGS



- The LD load terminal is **NOT galvanically isolated** when the dimming actuator is switched off. A separate automatic circuit breaker has to be installed at the power supply.

- Loads or parts thereof must **NOT** be added or taken off during operation.

- When connecting two circuits in parallel the circuits have to be connected to the same mains phase. When using two different mains phases the dimmer will instantly be destroyed when connecting in parallel. Looping from load is forbidden.

- The maximum start-up peak is 26A. Exceeding this current, especially with capacitive loads, the power unit will be destroyed.

- Channels A+B and C+D can be connected in parallel to allow higher loads. Both circuits must have same mains phase and the ETS parameters have to be set according to the parallel connection!
MANUAL OPERATION ONLY WITH UNPLUGGED BUS-TERMINAL!

The device must only be installed and configured by a qualified professional!

If the outlets are connected to different mains phases which are not protected by the same protector unit, a clearly visible note to that effect has to be attached to the device!

Health and safety regulations have to be compiled with!

Do not open the device!

A faulty device must be returned immediately to Lingg & Janke OHG!

The factory settings of the actuator do not feature any device or group addresses. The functions required are assigned when setting the parameters. During the planning phase with ETS, objects which are not assigned are not displayed either.

important:

programming with ETS 3.0d

The application programm must always be fully downloaded to the device, never partially. Partial download of the programm may lead to malfunctions.

The device is mounted on a DIN rail, DIN EN 60715 TH35

Position the device on the DIN rail from below. Apply brief, strong pressure on the upper edge of the casing to engage the casing with the rail.

The device can be removed from the rail without any tools: simply slide it from the DIN rail upwards and remove it from the top of the rail. Do not apply any force lest the clamps be damaged.

To connect the wires to the screwless terminals, insert a slotted screwdriver into the respective spring-clip button of the terminal, which opens the terminal. Insert the wire into the mounting hole and remove the screwdriver. The wire is now locked in place.

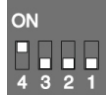
At full rated load, every dimming actuator generates heat loss. When the dimming actuator is installed in a cabinet, care must be taken that the temperature of the individual devices does not exceed 70°C.

- terminals L-L and N-N are wired internally.
- terminal cross section: 0.08 - 2.5 mm²
- stripping length: 5 - 6 mm
- conductors permitted:
 - single core
 - multi-filar
 - fine-wired, including tin-plated individual wires
 - fine-wired, with wire end sleeves

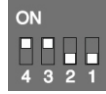
To enter the programming mode:



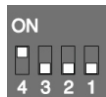
Set DIP 4 from OFF to ON



Set DIP 3 OFF for Leading-edge



Set DIP 3 ON for trailing-edge



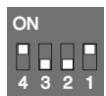
DIP 1 OFF for setting the minimum value. DIP 3 ON or OFF



By KNX telegram is sent the minimum value fixed by the test button.



The dimmer channel just drives back to zero.



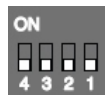
DIP 1 ON for setting the maximum value.



By KNX telegram is sent the maximum value, fixed by the test button.



The dimmer channel just drives back to zero.



Set all DIP switches to OFF. The minimum and maximum values are stored



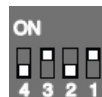
Universal dimmer mode:

The dimmer starts in leading edge and switches to the trailing edge if it detects that the load is inductive and back into the leading edge, for a capacitive load.



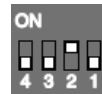
Energy saving lamps/ Trailing edge:

After powering it brings 1 minute 100% (warm-up of the ESL). Afterwards he dims between the programmed minimum and maximum value.



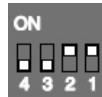
Energy saving lamps/ Leading edge:

After powering it brings 1 minute 100% (warm-up of the ESL). Afterwards he dims between the programmed minimum and maximum value.



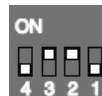
LED-Lamps / Trailing edge 0 bis 100%

The dimmer drives in immediately to the required value between 0 and 100% for retrofit LED and incandescent lamps.



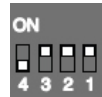
LED-Lamps / Trailing edge Min. to Maximum value:

The dimmer drives in immediately to the required value between min. and maximum value. For retrofit LED and incandescent lamps.



LED-Lamps / Leading edge 0 bis 100%

The dimmer drives in immediately to the required value between 0 and 100% for retrofit LED and incandescent lamps.



LED-Lamps / Leading edge Min. to Maximum value:

The dimmer drives in immediately to the required value between min. and maximum value. For retrofit LED and incandescent lamps.

By pressing the corresponding TEST button on the power unit each channel can be checked.



The first short push of the button, the channel will go ON (memory)



With another long push dims down the channel

With another press changes the direction of dimming.



The test function is a top priority. If the test function for 30 seconds is not operated, then taken over again the value of the interface.

If the interface does not provide value, remains the key to the value set (memory)



For maintenance the voltage must be interrupted. (MCB)



All DIP-switches to ON.



Press test button



Power off



All DIP-switches to OFF.



Power on