

# Universal dimmer switch for mains disconnection switching

## ESD12UF



Dimmer switch for R, L and C loads up to 300 W. Supply voltage and switching voltage 230 V.

With integrated switching-off relay for the mains disconnection of switched circuits. The control push-button(s) of the room are connected via low voltage control wires to the terminals T1 and T2 of the ESD12UF (internal DC voltage). The permanent power supply must be connected directly to a phase conductor ahead of the mains disconnection relay FR12-230 V. Due to this, the complete function remains but the leads to the lamps is disconnected by means of the switching-off relay. A glow lamp current is not permitted. Zero passage switching and soft start to protect the connected consumers.

Short-time control commands switch on/off, permanent control varies the brightness up to the maximum level.

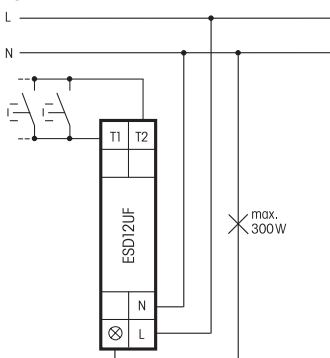
A interruption of control changes the direction of dimming. The brightness level is stored after switching off.

With switching operation for children's rooms: If the light is switched on by holding down the push-button, it starts at the lowest brightness level after approx. 1 second and it is dimmed up slowly without modifying the last stored brightness level.

The system is disconnected in a definite sequence in case of a power failure.

Automatic electronic overload protection and over-temperature switch-off.

### Typical connection



### Technical data

Incandescent and halogen lamps 230 V	300 W <sup>1)</sup>
Inductive transformers (L)	300 W <sup>1)2)</sup>
Electronic transformers (C)	300 W <sup>1)</sup>
Standby loss (activ power)	0,2 W

<sup>1)</sup> At a load of more than 110 W a ventilation clearance of ½ module to adjacent devices has to be kept.

<sup>2)</sup> Per dimmer or capacity enhancer it is only allowed to use max. 2 inductive (wounded) transformers of the same type, furthermore no-load operation on the secondary part is not permitted. The dimmer might be destroyed. Therefore do not permit load breaking on the secondary part. Operation in parallel of inductive (wounded) and capacitive (electronic) transformers is not permitted!



The strain relief clamps of the terminals must be closed, that means the screws must be tightened for testing the function of the device.  
The terminals are open ex works.

## Warning!

**Only a trained electrician may install this equipment, otherwise there is a risk of fire or electric shock.**