



Rotary dimmer in E-Design  
without N connection

DTD65L-230V-wg

**Only skilled electricians may install this electrical equipment otherwise there is the risk of fire or electric shock!**

Temperature at mounting location:  
-20°C up to +50°C.

Storage temperature: -25°C up to +70°C.  
Relative humidity:  
annual average value <75%.

Rotary dimmer without N connection for  
single mounting 84x84x25mm or  
mounting into the E-design switching  
system. Installation depth 33mm.  
Universal dimmer switch with rotary  
knob, Power MOSFET up to 200W.  
With adjustable minimum and maxi-  
mum brightness. Standby loss 0.5 watt  
only.

Universal dimmer switch for R and C  
loads up to 200 watt, depending on  
ventilation conditions.

Dimmable energy saving lamps ESL  
and 230V LED lamps in 'trailing edge' mode  
up to 200W or up to 40W in 'leading  
edge' mode, depending on ventilation  
conditions.

If 230V LED lamps are lightly glowing  
when they are turned off, a GLE base  
load must be installed parallel to the  
lamp.

**It is not permitted to connect L loads  
(inductive loads, like wounded trans-  
formers).**

**Zero passage switching with soft start  
and soft OFF to protect lamps.**

Control voltage, supply voltage and  
switching voltage 230V. Minimum load  
4 W.

In case of a power failure the switching  
position and the brightness level are  
stored. If applicable the dimmer will be  
switched on at the stored brightness level  
after the supply voltage is recovered.

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

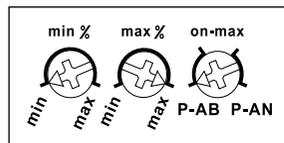
**Mounting:** screw mounting plate.

After the rotary switch setting, pull the  
red insulating cap and attach the knob.  
The insulating cap should be remained  
for future use in the DTD65L. Then put  
up the frame and attach the front panel.



**Important! Before mounting and  
removal, always disconnect the  
power supply!**

#### Function rotary switches



Minimum brightness (fully dimmed  
down) is adjustable **using the left %  
rotary switch.**

**Use the middle % rotary switch** to set  
the maximum brightness (fully dimmed  
up).

**The right rotary switch** allows to  
choose the dimming technology: **trail-  
ing edge** with memory (**P-AB**), **trailing  
edge** without memory (**P-AB on-max**),  
**leading edge** with memory (**P-AN**) or  
leading edge without memory (**P-AN  
on-max**).

The adjusted brightness stays saved at  
turning off if the **memory function** is  
active. At **on-max function** it turns on  
always with 100% brightness, by this  
way ESL can be switched.

#### Operation:

**Press the middle of the rotary knob**  
to switch on with memory value and to  
switch off and save the current dimming  
value.

**Turn to the right (clockwise) to dim up.**

The turning speed determines the dim-  
up speed.

If the dimming actuator was switched off  
to the right at the start of dimming, switch-  
on is at minimum brightness followed  
by gradual dim-up. **This is the children's  
room circuit.**

**When the rotary knob is turned jerkily  
to the right** – dim-up is rapid to the  
maximum brightness adjusted.

**Turn to the left (anticlockwise) to dim-  
down** to the minimum brightness ad-  
justed.

The turning speed determines the dim-  
down speed.

**When the rotary knob is turned jerkily  
to the left**, dim-down is rapid to the  
minimum brightness adjusted.

If the dimming switch was switched off  
to the left at the start of turning, switch-  
on is at minimum brightness followed  
by gradual dim-up by turning to the  
right.

**Control is also possible using a 230V  
control pushbutton in addition to the  
rotary knob:** Short commands switch  
on/off, continuous activation changes  
brightness up to maximum or minimum  
value. If you interrupt activation, it  
changes the dimming direction.

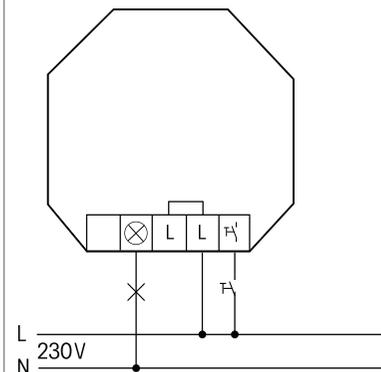
**Children's room circuit with control  
pushbutton:** Press the control pushbutton  
for a long time to switch on at minimum  
brightness, then continue pressing the  
pushbutton to dim up the lights slowly  
without changing the last dimming value  
stored.

#### Sleep time with control pushbutton:

A double pulse dims down and switches  
off the lighting from the current dimming  
position through to minimum brightness.

The maximum dimming time of 60 min-  
utes is dependent on the current dimming  
position and the adjusted minimum  
brightness and can therefore be short-  
ened as required. Tap briefly at any time  
during dim-down process to switch off.  
Press long during the dimming-down  
process to dim up and end the sleep  
timer.

#### Typical connection



#### Technical data

Incandescent and up to 200W<sup>1)</sup>  
halogen lamps 230V (R)

Inductive transformers (L) –

Electronic transformers (C) up to 200W<sup>1)2)</sup>

Dimmable energy up to 200W<sup>1)3)</sup>  
saving lamps ESL

Dimmable 230V LEDs up to 200W<sup>1)3)5)</sup>

Max./min. temperature +50°C/-20°C<sup>4)</sup>  
at mounting location

Standby loss (activ power) 0.5 W

- <sup>1)</sup> The switching capacity depends on the ventilation conditions.
- <sup>2)</sup> **When calculating the load a loss of 5% for capacitive (electronic) transformers must be considered in addition to the lamp load.**
- <sup>3)</sup> If energy savings lamps or 230V LED are used in the leading edge operating mode (P-AN), the maximum load is only up to 40W.
- <sup>4)</sup> Affects the max. switching capacity.
- <sup>5)</sup> Different lamp electronics may result in restricted dimming areas, on/off problems and a limited maximum number of lamps (to 10 units), especially if the connected load is very low (e.g. with 5W LEDs).

**Must be kept for later use!**

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