



61 100 800 - 3

**1-10V control dimmer switch
SDS61/1-10V for electronic ballast units**

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%.

**valid for devices from production week
22/22** (see bottom side of housing)

**1 NO contact not potential free 600 VA and
1-10V control output 40 mA. Only 0.5 watt
standby loss. With adjustable dimming
speed. With switching operation for
children's rooms and snooze function.
With pushbutton or switch activation.**

Built-in device for installation. 45 mm long,
55 mm wide, 33 mm deep.

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

Also adapted for LED driver with 1-10V passive
interface, without voltage source up to
0.6mA, above this value an additional voltage
source is necessary.

Switching voltage and control voltage 230 V.
State-of-the-art hybrid technology combines
advantages of nonwearing electronic control
with high switching capacity of special relays.
The load is switched on and off by a bistable
relay at output EVG (electronic ballast units).
Switching capacity for fluorescent lamps or
LV halogen lamps with electronic ballast
units 600 VA.

**By using a bistable relay coil power loss
and heating is avoided even in the on mode.**

After installation, wait for short automatic
synchronisation before the switched
consumer is connected to the mains.
Short-time control commands switch on/off,

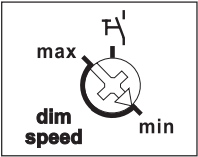
permanent control varies the brightness up to
the maximum level.

An interruption of control changes the
direction of dimming.

The brightness level is stored after switching
off.

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.

Function rotary switch



The dimming speed is adjustable **using the
dimming speed rotary switch (only for
pushbutton activation).**

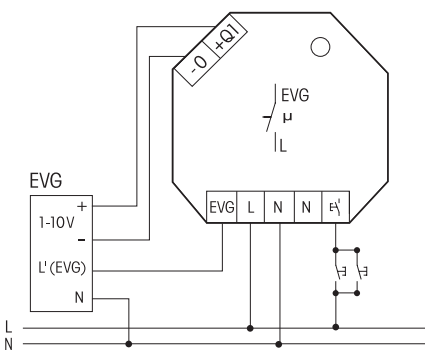
**If light switches cannot be replaced by light
pushbuttons, the rotary switch can be set
to the switch symbol at the right stop:**

When the closed switch is briefly opened, the
light is dimmed until the switch is briefly
opened again. The dimming direction is
changed automatically at each of the two
vertices. In addition the direction can be
changed by opening the switch briefly twice.

**Switching operation for children's rooms
(only for pushbutton activation):** If the light
is switched on by holding down the push-
button, it starts at the lowest brightness level
after approx. 1 second and dims up slowly as
long as the pushbutton is held down without
modifying the last stored brightness level.

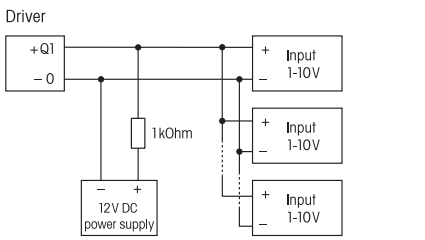
**Snooze function (only for pushbutton
activation):** With a double impulse the light-
ing is dimmed down from the current dim-
ming position to the minimum brightness
level and switched off. The current dimming
position as well as the adjustable minimum
brightness level determine the dimming time
(max. = 60 minutes) which can be reduced as
required. It can be switched off at any time
by short-time control commands during the
lighting is dimmed down. Holding down the
pushbutton during the dimming down pro-
cess dims up and stops the snooze function.

Typical connection



For the control from several LED drivers with
1-10V passive interface, an additional voltage
source is necessary, this can be the power
supply unit SNT12-230V/12V DC-0.5A or
SNT61-230V/12V DC-0.5A, in both cases a
1kOhm resistor is necessary.

**Example of connecting with an additional
voltage source**



**Manuals and documents in further
languages**



http://eltako.com/redirect/SDS61*1-10V



Must be kept for later use!
We recommend the housing for
operating instructions GBA14.

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