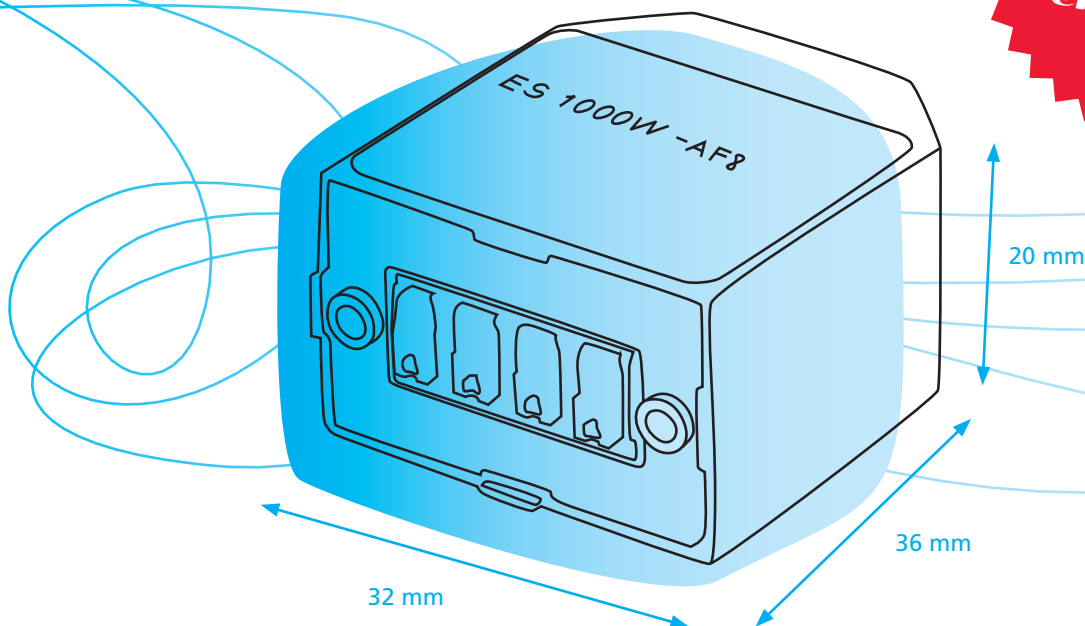


Electronic Series Switch ES1000W-AF8

The ES1000W-AF8 electronic series switch allows separate switching of additional lights, such as: ceiling lights and wall lights using only a single existing 230 V circuit.

*Small and unobtrusively!
The smart Electronic Series Switch!*



The ES1000W-AF8 is intended exclusively for lighting purposes. It can be used in all classical switching circuits, such as switch-off, alternating or cross circuits and in impulse relay circuits. The ES1000W-AF8 extends these circuits to include series switching in a very simple manner.

This allows independent control of two lamps, which can otherwise only be implemented at a significantly higher cost by using classical series circuits. With the ES1000W-AF8 the existing installation only needs to be extended. Only the added lamp must be newly connected. The small dimensions allow the ES1000W-AF8 to be installed (using spring terminal technology) e.g. in junction boxes, baldachines etc.

The ES1000W-AF8 electronic series switch is suitable for energy saving.



Installation instructions

Electronic Series Switch ES1000W-AF8

Notes:

The currently set switching state can change after a power cut! Make sure that the terminal connections in the circuit are secure!

Possible causes of NON function:

- N-connection not contacting
- Bouncing light switch
- Capacitances between N & L

1. Starting situation: Normal off circuit

In the existing off circuit (Figure 1) an additional lamp (lamp B) is to be installed and is to be separately switchable (while retaining the existing off switch and the existing electrical installation). This is very easy with the ES1000W-AF8 as explained below.

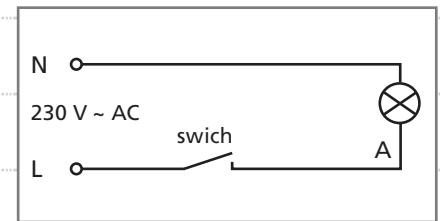


Figure 1

Circuit version SV1

2. Circuit extension using the ES1000W-AF8 in switch-on mode

For installing the ES1000W-AF8, the circuit shown in Figure 1 remains unchanged. However, the circuit is extended by wiring the ES1000W-AF8 in accordance with Figure 2 – Switching on. The use of a 4-way plug terminal is recommended for the N connection. Lamp A is used most of all since this is always switched on when the switch is actuated.

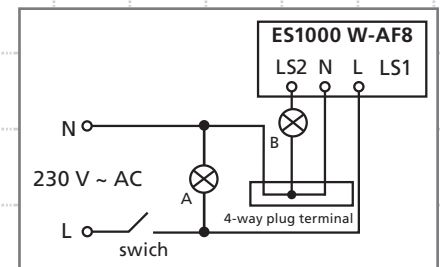


Figure 2 - Switch-on mode

2.1. Function of the ES1000W-AF8 in switch-on mode

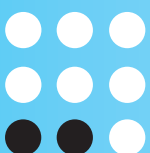
Closing the switch switches on lamp A. Lamp B remains switched off. When actuating the switch again (switching off and on again within 1-2 sec.), lamp A remains switched on and lamp B is switched on at the same time.

Actuating the switch once again (switching off and on again within 1-2 sec.) switches off lamp B again. Lamp A remains on.

If the switch remains switched off for longer than 2 seconds, the ES1000W-AF8 returns to its basic state. Switching on again results in switching state 1 again, as shown in Table 1.

Switch-on mode	Lamp A	Lamp B
1. Regular switching on (basic state after break time > 2 sec.)	ON	OFF
2. Short switching off-on (< 2 sec.)	ON	OFF
3. Short switching off-on (< 2 sec.) (switching condition 1)	ON	OFF
4. Short switching off-on (< 2 sec.)	ON	OFF

Table 1



Circuit version SV2

3. Circuit extension using the ES1000W-AF8 in switch-off mode

For installing the ES1000W-AF8, the circuit shown in Figure 1 remains unchanged. However, the circuit is extended by wiring the ES1000W-AF8 in accordance with Figure 3 – Switching off.

The use of a 4-way plug terminal is recommended for the N connection. Lamp A is used most of all since this is always switched on when the switch is actuated.

3.1 Function of the ES1000W-AF8 in switch-off mode

Closing the switch switches on lamp A. Lamp B is also switched on. When actuating the switch again (switching off and on again within 1-2 sec.), lamp A remains switched on and lamp B is switched off at the same time.

Actuating the switch once again (switching off and on again within 1-2 sec.) switches on lamp B again. Lamp A remains on.

If the switch remains switched off for longer than 2 seconds, the ES1000W-AF8 returns to its basic state. Switching on again results in switching state 1 again, as shown in Table 2.

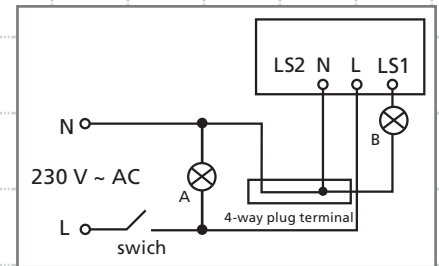


Figure 3 - Switch-off mode

Switch-on mode	Lamp A	Lamp B
1. Regular switching on (basic state after break time > 2 sec.)	ON	ON
2. Short switching off-on (< 2 sec.)	ON	OFF
3. Short switching off-on (< 2 sec.) (switching condition 1)	ON	ON
4. Short switching off-on (< 2 sec.)	ON	OFF

Table 2

Circuit version SV3

4. Circuit extension using the ES1000W-AF8 in switch-over mode

For installing the ES1000W-AF8, the circuit shown in Figure 1 must be changed. The wiring for this is depicted in Figure 4 – Switching over.

The use of a 4-way plug terminal is recommended for the N connection. The lamp that is most frequently used is to be wired to connection LS1 because this is the first to be switched on when the switch is actuated. This is lamp B in the example.

4.1. Function of the ES1000W-AF8 in switch-over mode

Closing the switch switches on lamp B. Lamp A remains switched off. When actuating the switch again (switching off and on again within 1-2 sec.), lamp B is switched off and lamp A is switched on at the same time.

Actuating the switch once again (switching off and on again within 1-2 sec.) switches off lamp A again. Lamp B is switched on.

If the switch remains switched off for longer than 2 seconds, the ES1000W-AF8 returns to its basic state. Switching on again results in switching state 1 again, as shown in Table 3.

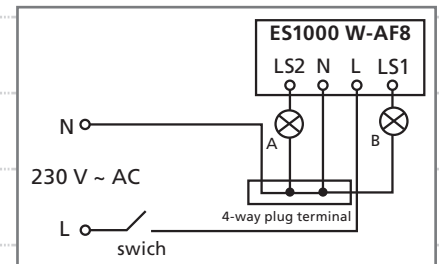
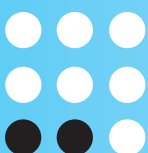


Figure 4 - Switch-over mode

Switch-on mode	Lamp A	Lamp B
1. Regular switching on (basic state after break time > 2 sec.)	OFF	ON
2. Short switching off-on (< 2 sec.)	ON	OFF
3. Short switching off-on (< 2 sec.) (switching condition 1)	OFF	ON
4. Short switching off-on (< 2 sec.)	ON	OFF

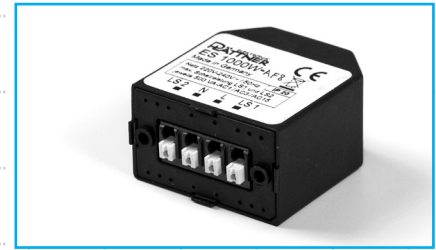
Table 3



Technical data

Electronic Series Switch ES1000W-AF8

Max. total current	10 A through terminal L (total for both lamps)
Grid connection	220V-240V AC / 50Hz
Weight	22 grams
Housing dimensions	36 x 32 x 20 mm (LxWxH)
Wire cross-section (solid wire)	max. 1,5 mm ²
Protection degree	IP 20
Ambient temperature	Up to +25°C (max. 35°C)
Storage temperature	0°C to +40°C
Installation	The ES1000W-AF8 can be wired into the 10A circuit without an additional fuse.
Operating consumption (only when switched on)	< 0.5 W



Picture ES1000W-AF8

