

FAN CONTROL DEVICE

DATASHEET



Fig.1 The USW22 module.

DESCRIPTION

The USW22 module is used to control the operation of the fan. It is powered with 230V AC and serves for periodical ventilation of rooms, as well as for short ventilation, for example after turning on the lighting. The triac with zero voltage crossing is main working element. Built-in SW1 and SW2 switches allow change break times of the fan and delay work times after turning off the lighting. The LED diode indicates an output state.

PRINCIPLE OF OPERATION

The USW22 module can work in two modes:

Work mode – periodically activating the fan for 30 minutes every 4, 8, or 12 hours. Break time of the fan is set by SW2 switch, according to Table 2. After turning on the lighting, the module waits 1 minute, and then activate the fan. After 3, 6, 9 or 12 minutes from turning off the lighting – fan is stopped. This delay is set by SW1 switch, according to Table 1.

Test mode – set by SW2 switch (Table 2). This mode serves for correctness check of the destination system. The fan is periodically activated every 45 s for 15s. After turning on the lighting, the module

waits 3 s, and then activate the fan. After turning off the lighting the module counts 3, 6, 9 or 12 s, and then stops the fun. This delay is set by SW1 switch according to Table 1.

	Delay times	
SW1	Work mode	Test mode
ON 1 2	3 min.	3 s
ON 1 2	6 min.	6 s
ON 1 2	9 min.	9 s
ON 1 2	12 min.	12 s

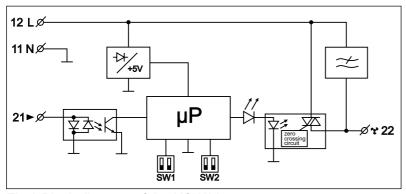
Table 1

SW2	Break time
ON 1 2	4 h
ON 1 2	8 h
ON 1 2	12 h
ON 1 2	Test mode

Table 2

ATTENTION: New settings of switches are valid in the next working cycle, or after momentary turning off the power.

USW22



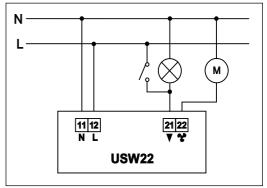


Fig.2 Block diagram of the USW22.

Fig.3 Connections of the USW22.

TECHNICAL DATA

Power supply	230 V AC ± 10%
Max. current consumption for RL= ∞	20 mA AC
Output circuit	Triac with zero voltage crossing
RMS on-state current	3A AC
Max. peak on-state current, t=20ms	100A AC
Protection class of the case / terminals	IP-40 / IP-20
Ambient temperature range	-10+55°C
Diameter of terminals	2,5 mm ²
Mounting	DIN-35 or DIN-32 rail
Dimensions (L x W x H)	96mm x 48mm x 42mm
Weight	80 g

REMARK:

Working and breaking times of the fun, as well as reaction way on the lighting, can be set individually according to the specification.



Before any connecting operations it is absolutely necessary to diconnect 230V AC power line. Touching terminals 11, 12 and 21, 22 during work of the module is threatened with electric shock.



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