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dalap NOMIA Timer and Humidity Sensor

Specifications

- Product Name: Dalap NOMIA household axial fan
- Intended Use: Small and medium-sized residential and non-residential units
- Function: Continuous ventilation

Safety Requirements

Only perform maintenance on the fan when disconnected from the mains! Conduct maintenance at least once a year. After removing the fan, clean it with a soft rag dampened with a mild solution of water and detergent. Be careful not to wet down the electrical parts of the fan, especially the motor. Wipe the fan dry and return it to its installed position.

Troubleshooting

Fault	Possible Cause	Remedy
The fan does not rotate or respond to control	No power supply connected	Check the power supply connection

Increased noise or vibrat ion	Internal joint fault or a clog ged ventilation system	Call a specialist for internal jo ints or clean ventilation system

Product Configuration

Connecting NOMIA (models without timer and humidistat)

1. Switch off the electric circuit.
2. Unscrew the screw on the front panel's side to access the terminal block.
3. Run supply cables through the rubber bushing and connect them in the terminal block.
4. Connect the electric circuit and test the function of the fan after installation.

Configuring Fan Algorithms with Option ZW

Section 1. Configuring the Built-In Humidity Sensor

Set the humidity values (50%, 70%, 90%) or disable the sensor. In IN mode, the fan turns on/off with the lights. In OUT mode, it operates independently based on timer settings.

Section 2. Setting the Switch-Off Delay Time

Adjust fan operation time after lights out (5, 15, 30 min) or disable the timer.

Section 3. Setting the Ventilation Mode

Set ventilation intervals (6, 12, 24 hours) or disable ventilation.

Section 4. Setting the Integrated Light Sensor

Details on connection and configuration can be found in the user manual.

USES

- The Dalap NOMIA household axial fan is intended for use in small and medium-sized residential and non-residential units.
- The fans may be used for continuous ventilation.

SAFETY REQUIREMENTS

- Please read this manual carefully and pay attention to all the requirements before use.
- It is prohibited to install the fan into ducting systems that are used to conduct flue gases away.
- The installation, connection, and maintenance of the fan may only be done when the fan is disconnected from the mains.
- The timer and humidistat may only be set after the fan has been disconnected from the mains.
- Both connection to and disconnection from the supply network should only be done by a specialist electrician.
- This device is not intended for use by persons (including children) with reduced physical, sensory, or mental abilities or r lack of experience and knowledge, if they are not supervised or the person responsible for their safety has not provided them with the instructions for use.
- The fan is designed for connection to a single-phase alternating current of 220–240 V with a frequency of 50 Hz.
- The degree of protection is IP25. Operating temperature from +1 to +40 °C.

MAINTENANCE

Only perform maintenance on the fan when disconnected from the mains! Conduct maintenance at least once a year. After removing the fan, clean it with a soft rag dampened with a mild solution of water and detergent. Be careful not to wet down the electrical parts of the fan, especially the motor. Wipe the fan dry and return it to its installed position.

TROUBLESHOOTING

Fault	Possible cause	Remedy
After being connected to t he power supply, the fan d oes not rotate or respond t o control in any way.	No power supply is connec ted.	Call a specialist.
	There is a fault in the inter nal joints of the device.	

The air flow is low.	The ventilation system is clogged.	Clean the ventilation system.
Increased noise or vibration.	The fan is not properly attached or is installed incorrectly.	Remove the mistake during installation.
	The ventilation system is clogged.	Clean the ventilation system.

NOMIA (models without timer and humidistat)

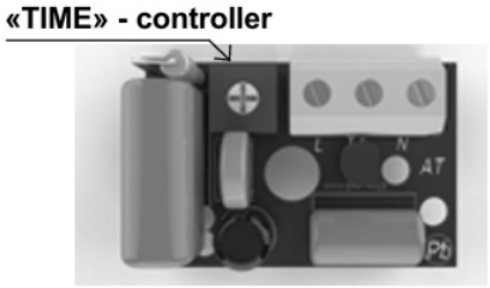
Connection

1. Switch off ffthe electric circuit that you are going to work on.
2. Unscrew the screw on the front panel's side and remove the cover under which the terminal block with two terminals is located.
3. Run the supply cables (permanent phase and neutral) through the rubber bushing and connect them in the terminal block. The positions of the cable connections do not matter in this case.
4. After completing the installation, connect the electric circuit and test the function of the fan.

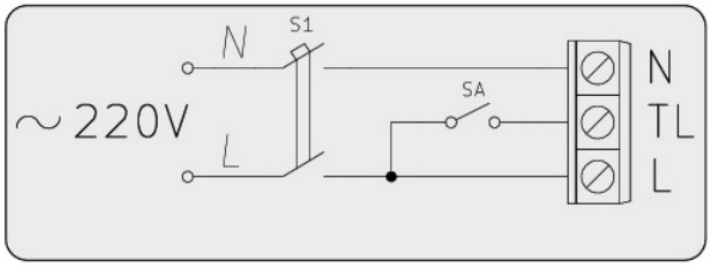
CONTROL ELEMENTS

- The fan is connected by three wires to terminals "L", "TLH and
- The timer is controlled by an external switch.
- The fan is activated when the switch is turned on and runs as long as it is on.
- When the external switch is turned off, the fan will run for the time set on the timer and automatically turn off.
- The timer is set by the "TIME" potentiometer on the electronics:
  - In the leftmost position, the timer is switched off
  - In the rightmost position, the timer time is 30 minutes.

- Use a small screwdriver to adjust.

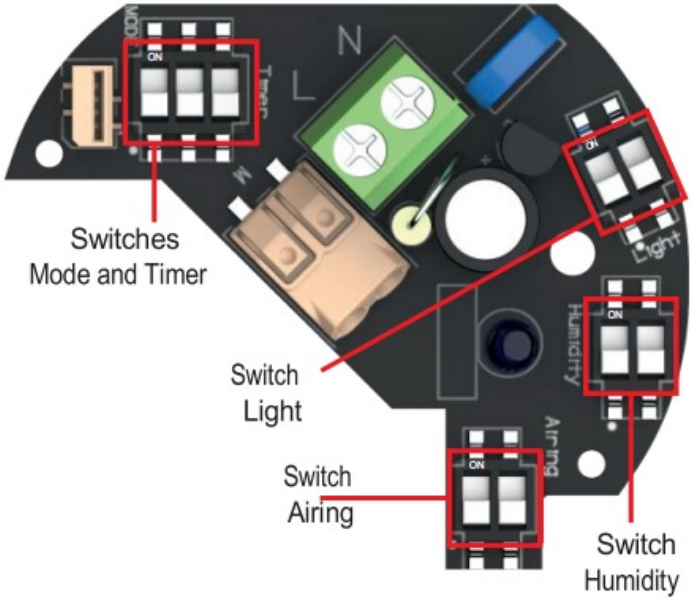


Wiring diagram of fans with timer



Connecting and configuring fan algorithms with option ZW

CONTROLS



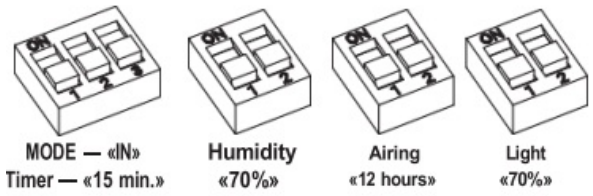
‘Bwd images and component locations may vary

WIRING DIAGRAM

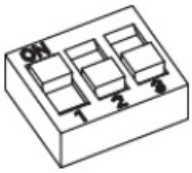
- The is connected with two wires to terminals and “L” (it is recommended to use polarity, so the board will work more efficiently and the fan operates in automatic mode.

MODES OF OPERATION

- ! The default setting at the factory is the typical automatic mode of operation.



The fan will turn on when the built-in humidity sensor detects humidity above 70% (SECTION 1) and will run until the humidity sensor detects a decrease to 70% or below (SECTION M). The fan will then run for 15 minutes (SECTION 2) and turn off. Every 12 hours (SECTION') the fan will turn on and then turn off after 30 minutes. If the fan is installed in a room with permanently low or permanently high humidity levels, it is recommended to disable the built-in humidity sensor (SECTION 1). For convenience, it is possible to set the fan to turn on only when there are no people in the room (determined by the absence of lighting). To do this, turn the MODE switch to the "OUT" position.



The fan will switch on when the humidity sensor detects that the humidity exceeds (SECTION 1), but only if the built-in light sensor (SECTION A) detects that there is no light in the room, and will run until the humidity sensor detects that the humidity drops to 70% or below (SECTION 5). The fan will then run for 15 minutes(SECTION 2) and turn 0m. Every 12 hours (SECTIONC3), the fan will turn on and then turn off after 30 minutes.

If a light comes on in the room while the fan is operating, it will stop operating immediately.

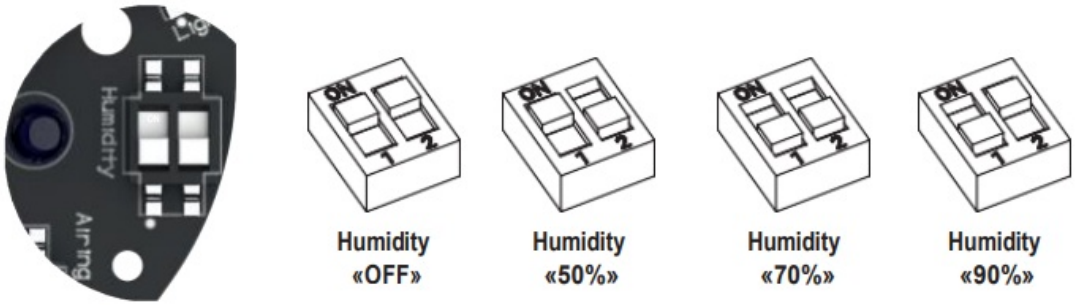
CONNECTION AND CONFIGURATION

IMPORTANT: All operations related to connection, adjustment, maintenance, and repair of the product should be performed only when the mains voltage is removed. And repair of the product should be carried out only when the mains voltage is disconnected (circuit breaker S1 in OFF position).

- Regardless of the wiring diagram, the unit only operates when the circuit breaker S1 is closed. The fan can only be energized,
- i.e., the circuit breaker S1 can only be energized when the front panel of the fan is closed.
- To prevent the switches from malfunctioning, do not apply excessive force when setting.

SECTION 1. CONFIGURING THE BUILT-IN HUMIDITY SENSOR

The factory default humidity at which the fan switches on automatically is set to 70%. If required, the following humidity values can be selected: 50, 70, 90%. Or you can disable the built-in humidity sensor altogether. To do this, set the Humidity switch to the required value.

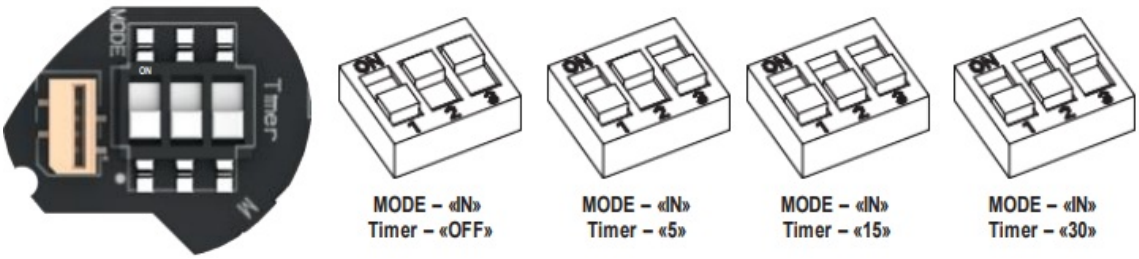


If the humidity sensor is disabled, the fan in IN mode will turn on when the lights are turned on and will run until the lights are turned off, and after they are turned off for the time set on the Timer switch. In OUT mode, the fan will turn on when the lights are turned off and will run for the time set on the Timer switch.

SECTION 2. SETTING THE SWITCH-OFF DELAY TIME

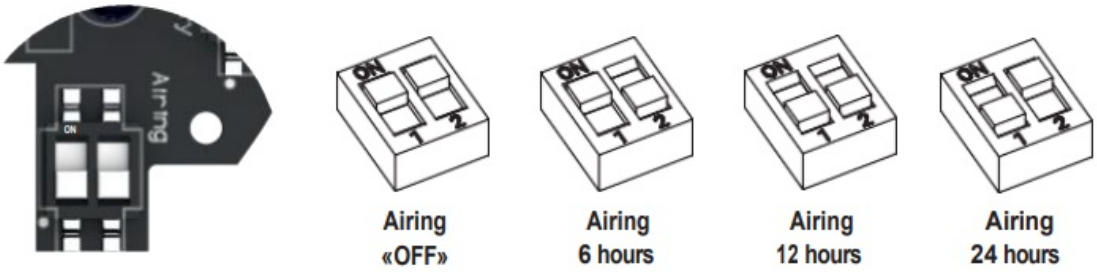
The factory default fan operation time after lights out is 1 minute. If necessary, you can

set the fan operation time after lights out to 5, 15, or 30 minutes. Or disable the timer altogether. To do this, set the Timer switch to the required value.



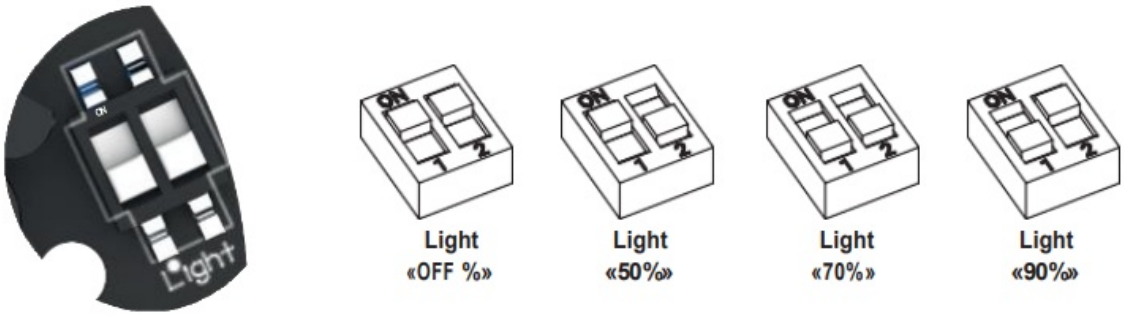
SECTION 3. SETTING THE VENTILATION MODE

The factory default setting is 12 hours, after which the fan is switched on in ventilation mode and runs for 30 minutes, after which it is switched off. If necessary, it is possible to set the ventilation intervals: 6, 12, or 24 hours. Or disable ventilation altogether. To do this, set the Airing switch to the required value.



SECTION 4. SETTING THE INTEGRATED LIGHT SENSOR

The factory default light sensor sensitivity is set to medium (default 70%). If necessary, you can select light values of 50, 70, or 90%. Or disable the built-in light sensor altogether. It is recommended to reduce the sensitivity of the light sensor to 50% (e.g., for a room with a window) or increase its sensitivity to 90% (e.g, for a room with low light). To do this, set the Light switch to the desired value.



Distributor for the EU,

- DALAP GmbH
- Töpfergasse 72
- 095 26 Olbernhau, DE
- www.dalap.eu
- info@dalap.eu

WARRANTY CERTIFICATE

- NOMIA 100
- NOMIA 125
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- NOMIA 100 ZW
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Seller’s Stamp,

Date of Sale,————-

The selective collection of electronic and electrical equipment.

The disposal of electronic and electrical products in unsorted municipal waste is forbidden.

FAQs

Q: How often should maintenance be performed on the fan?

A: Maintenance should be conducted at least once a year when the fan is disconnected from the mains.

Q: What should I do if the fan does not rotate or respond to control?

A: Check if the power supply is connected and if not, rectify the connection.

Documents / Resources

	dalap NOMIA Timer and Humidity Sensor [pdf] User Manual NOMIA Timer and Humidity Sensor, NOMIA, Timer and Humidity Sensor, Humidity Sensor, Sensor

References

- User Manual

dalap

dalap, Humidity Sensor, Nomia, NOMIA Timer and Humidity Sensor, Sensor, Timer and Humidity Sensor

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