



## SENSOR SPEED CONTROLLER



**SGS E1**



**OPERATION MANUAL**



BLAUBERG Ventilatoren GmbH is happy to offer your attention the sensor speed controller SGS E1.

**INTRODUCTION**

The present operation manual contains technical description, technical data sheets, operation and mounting guidelines, safety precautions and warnings for safe and correct operation of the device.

Read carefully the operation manual, especially the safety requirements before mounting and start-up of the device.

Keep the operation manual available as long as you use the device.

**GENERAL**

The sensor speed controller SGS E1 is designed for switching on/off and speed control of single-phase motors of the fans and ventilation units. The speed is controlled by means of touching the button ON/OFF and two speed control buttons located on the sensor glass panel.

**SAFETY RULES**

Cut off power supply to the device prior to any operations.

All mounting and maintenance operations must be carried out by duly qualified electricians with a valid electrical work permit for electric operations after careful study of the user's manual.

Misuse of the device or any unauthorized modification are not allowed.

Follow the manual guidelines to ensure trouble-free operation and long service life of the device.

**STORAGE AND TRANSPORTATION RULES**

Transportation is allowed by any vehicle provided the product is transported in the original package and is protected against weather and mechanical damages.

Store the delivered product in the manufacturer's original packing box in a dry ventilated premise.

The storage environment must not be subjected to any aggressive and/or chemical evaporations, admixtures, foreign objects that may provoke corrosion and damage connection tightness.

Store the product in an environment with minimized risk of mechanical damages, temperature and humidity fluctuations at the ambient temperature from +5 °C up to +40 °C.

**MANUFACTURER'S WARRANTY**

The product complies with the requirements according to the EU norms and directives, to the relevant EU-Low Voltage Equipment Directives, EU-Directives on Electromagnetic Compatibility.

The product complies with the requirements according to the EU norms and directives, to the relevant EU-Low Voltage Equipment Directives, EU-Directives on Electromagnetic Compatibility. We hereby declare that the following product complies with the essential protection requirements of Electromagnetic Council Directive 2004/108/EC, 89/336/EEC and Low Voltage Directive 2006/95/EC, 73/23/EEC and CE-marking Directive 93/68/EEC on the approximation of the laws of the Member States relating to electromagnetic compatibility.

The manufacturer hereby warrants normal operation of the product over the period of 2 years from the retail sale date provided observance of the installation and operation regulations.

In case of failure due to manufacturing fault during the warranty period the consumer has the right for the device repair or exchange.

The replacement is offered by the Seller.

If case of no confirmation of the sale date, the warranty period shall be calculated from the manufacturing date.

The MANUFACTURER shall not be liable for any damage resulting from any product misuse or gross mechanical interference with it.

The MANUFACTURER is not responsible for the damages resulted due to the use of third party equipment or to third party equipment.



**WARNING**

*The product is not allowed for use by children and persons with reduced physical, mental or sensory capacities, without proper practical experience or expertise, unless they are controlled or instructed on the product operation by the person(s) responsible for their safety. Supervise the children and do not let them play with the product.*



**WARNING**

*Do not dispose in domestic waste. The product contains in part material that can be recycled and in part substances that should not end up as domestic waste. Dispose the product once it has reached the end of its working life according to the regulations valid in your country.*

**DELIVERY SET**

- ✓ Sensor speed controller SGS E1;
- ✓ Operation manual;
- ✓ Packing box.

**TECHNICAL DATA**

Table 1. Technical data

Model	Parameters							
	Supply voltage, 50-60 Hz [V]	Max. current load [A]	Cable cross section [mm <sup>2</sup> ]	Operating temperature range [°C]	Operating humidity range [%]	Service life	Ingress Protection Rating	Weight [g]
SGS E1	230	1	0.35 - 1	from -10 up to +45	from 5 up to 80	100 000 operations	IP 30	138

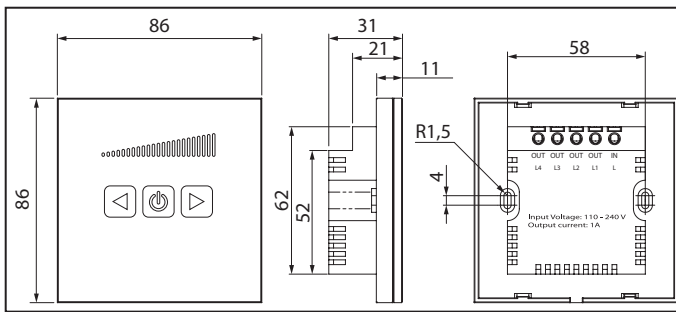


Fig. 1. Overall dimensions

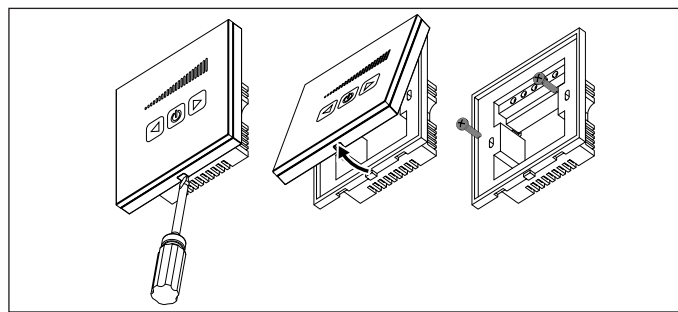


Fig. 2. Mounting

**MOUNTING**



**WARNING**

Make sure that the device is not damaged. Do not use a damaged device! Do not install the device on an uneven surface! While tightening the screws avoid overtightening not to damage the device.

Mounting sequence of the sensor speed controller, fig. 2:

1. Carefully undo the latches on the front panel with a screwdriver.
2. Remove the back panel.
3. Route the cable to the installation place of the speed controller.
4. Fix the back panel to the wall through the fixing holes.
5. Install the front panel on the latches.

**CONNECTION TO POWER MAINS**



**WARNING**

Cut off power supply to the speed controller prior to any operations with the speed switch. All mounting and servicing operations are allowed for duly qualified electricians with valid electrical work permit for electric operations after careful study of the present operation manual.

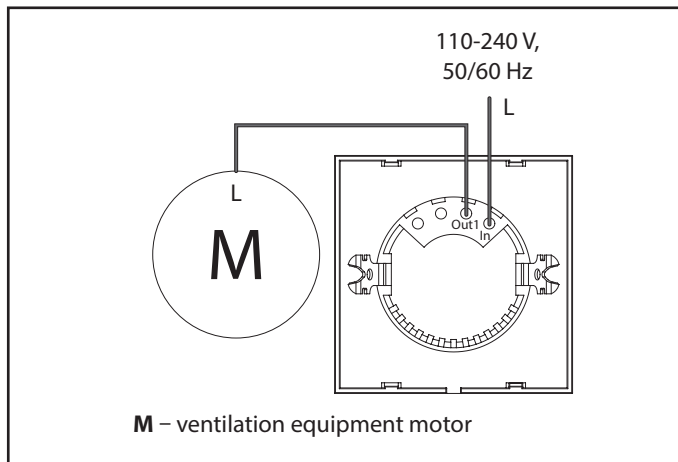





Fig. 3. Wiring diagram

For connection of the sensor speed controller to ventilation units and fans follow the wiring diagram, fig. 3.


**CONTROL**



When connected to power mains the button  glows dull blue.

Press the button  to activate/deactivate the connected ventilation equipment.



Press the button  to decrease or the button  to increase the motor speed.

Setting minimum rotation speed of the connected motor:

1. Press and keep the button  within 5 seconds until the light indicator displays 50% of the operation range. That differentiates the setup mode from the operation mode. Ventilation equipment operates at the maximum speed.

2. Set the rotation speed by pressing the buttons  or . The set speed level is displayed with the LED light indicator.

3. Save the selected set point by pressing the button .

To activate the fan and activate its set operation mode press the button . When setting the minimum speed press the button  to save the current set point.

Every time you enter the setup mode the maximum speed is set by default, no matter of the previous set point.

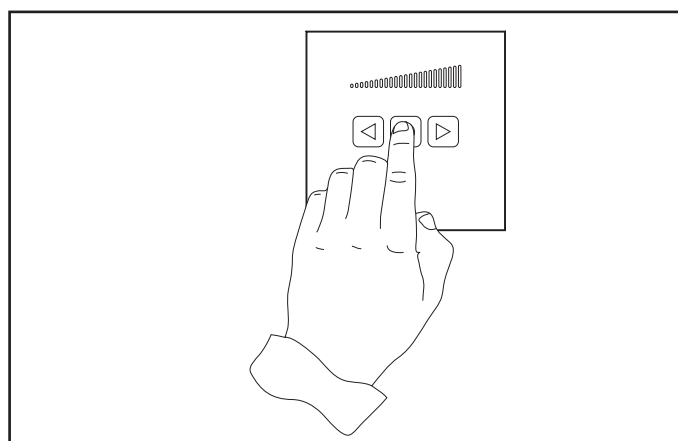


Fig. 4. Sensor speed controller control

**ACCEPTANCE CERTIFICATE**

**Sensor speed controller**

SGS E1

**is recognizes as serviceable.**

Approval mark

Manufacturing date \_\_\_\_\_

**WARRANTY CARD**

SGS E1

**SELLER**

---

**SALES DATE**

---

**REPRESENTATIVE IN EU**

---

BLAUBERG Ventilatoren GmbH  
Aidenbachstr. 52a  
D-81379 Munich, Germany

---



[www.blaubergventilatoren.de](http://www.blaubergventilatoren.de)  
SGS E1 v.2(2) / EN