SIEMENS 3⁰¹⁸



Fan Speed Switch

RAB91

Simple fan speed switch with three speed-levels (0-I-II-III)

Use

The RAB91 is used in heating or cooling systems to select the fan speed. Typical use can be in commercial, residential or light industrial buildings.

The unit consists of a base plate and a top cover.

The fan speed can be selected with a 4-position-slider-switch (0-I-II-III).

Accessories

Functionality	Order number (ASN)
Adapterplate 120 x 120 mm for 4" x 4" conduit boxes	ARG70
Adapterplate 96 x 120 mm for 2" x 4" conduit boxes	ARG70.1

Notes

The unit can be fitted to most commercially available recessed conduit boxes or directly on the wall.



Caution: 250 V!

Only authorized personnel may open the unit to perform service.

The unit must be isolated from the mains supply before opening.

When installing the unit, fix the base plate first then hook on the fan speed switch body and make the electrical connections. Then fit the cover and secure it (also refer to separate mounting instructions).

The fan speed switch must be mounted on a flat wall. The local electrical regulations must be complied with.



Warning!

No internal line protection for supply lines to external consumers (Q1, Q2, Q3)

Risk of fire and injury due to short-circuits!

 Adapt the line diameters as per local regulations to the rated value of the installed overcurrent protection device.

Maintenance

The fan speed switch is maintenance-free. The housing is plastic.

Ordering

Type (ASN)	Part number (SSN)	Description
RAB91	S55770-T231	Room thermostat RAB91

Disposal



The devices are considered electronics devices for disposal in term of European Directive 2012/19/EU and may not be disposed of as domestic waste.

- Dispose of the device via the channels provided for this purpose
- Comply with all local and currently applicable laws and regulations.

Power supply



 Switching capacity
 AC 24...250 V

 Voltage
 AC 24...250 V

 Current
 0.2...6(2.5) A

 Frequency
 50 or 60 Hz



No internal fuse

External preliminary protection with max. C 10 A circuit breaker in the supply line required under all circumstances

Screw terminals for	2 x 1.5 mm ² (min. 0.5 mm ²)
Operation Climatic conditions Temperature Humidity Pollution degree	According to IEC 60721-3-3 Class 3K5 -10+50 °C <95 % r.h. normal, according to EN 60730-1
Transport / Storage Climatic conditions Temperature Humidity Mechanical conditions	to IEC 60721-3-2 Class 2K3/1K3 -20+50 °C <95 % r.h. Class 2M2
EU Conformity (CE)	CE1T3015xx*)
RCM Conformity	CE1T3561en_C1 *)
Safety standard Degree of protection of housing	II to EN 60730-1 IP30 to EN 60529

Industry standards

Environmental conditions

Environmental compatibility

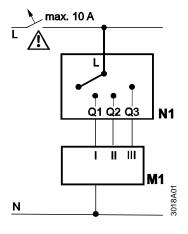
Mechanical design

The product environmental declaration CE1E3561 ontains data on environmentally compatible product design and assessments (RoHS compliance, materials composition, packaging, environmental benefit, disposal).

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Weight	0.12 kg
Colour	white, NCS S 0502-G (RAL 9003)

^{*)} The documents can be downloaded from http://siemens.com/bt/download.

Connection diagram



L Switching voltage max. AC 250 V

N Neutral

N1 Fan speed switch

M1 3-speed fan

Q1 Control output fan speed I, AC 250 V

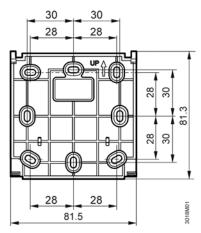
Q2 Control output fan speed II, AC 250 V

Q2 Control output fan speed III, AC 250 V

Room thermostat

96

Base plate



Remarks

Heating:

Because of the unavoidable self heating effects of the electrical current, any loads of more than 3 Amperes connected to the unit can influence the control behavior and temperature accuracy in a negative way.

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Cooling:

Because of the unavoidable self heating effects of the electrical current, any loads of more than 1 Amperes connected to the unit can influence the control behavior and temperature accuracy in a negative way.