

ABV-300/D

Control unit for smoke detectors

The ABV-300/D control unit is used together with smoke detectors in the series S65, S50, S65-OE and S50-OE-GA4.

The control unit provides power for connected smoke detectors and transmits smoke and service alarms.

- For detectors with or without service alarm
- For supply voltage 24 V AC/DC or 230 V AC
- Two relay contacts for alarms

Function

ABV-300/D is designed with state of the art technology to satisfy all the requirements of a reliable fire protection unit. The control unit continuously monitors that the power supply and current values are normal.

A green LED indicates that the power supply is switched on.

The control unit is connected to the smoke detectors by means of a two-wire loop.

Up to 20 detectors can be connected to the same control unit. An end resistor should be connected to the last detector to end the loop.

Alarm for loop failure

In the event of a short-circuit or open circuit in the detector loop, the control unit will activate the smoke alarm relay.

- Serves both optical and ionising smoke detectors
- LEDs for operation, smoke alarm and service alarm
- Compact design for DIN-rail mounting

Smoke alarm

When a detector senses smoke, the red LED goes on and the alarm relay denoting a smoke alarm is activated. After an alarm signal, the unit is reset using the RESET button on the front.

Service alarm

There is a service alarm function on the models ABV-S-300/D and ABV24-S-300/D. When a detector with service alarm becomes contaminated, a yellow LED will light up on the control unit and the service alarm relay is activated.

No service alarm

For detectors without service alarm, the models ABV-300/D and ABV24-300/D should be used.

Models

Control unit	Service alarm	Supply voltage
ABV-300/D	No	230 V AC
ABV24-300/D	No	24 V AC/DC
ABV-S-300/D	Yes	230 V AC
ABV24-S-300/D	Yes	24 V AC/DC

Technical data

Supply voltage	24 V AC/DC or 230 V AC +/-10 %, 50-60 Hz	
Power consumption	Normal operation 30 mA	
Ambient temperature	-10...+45°C, non-condensing	
Material cover	White makrolon plastic	
Mounting	DIN-rail	
Protection class	IP20	
Weight	0.16 kg (24 V)	0.23 kg (230 V)

Input

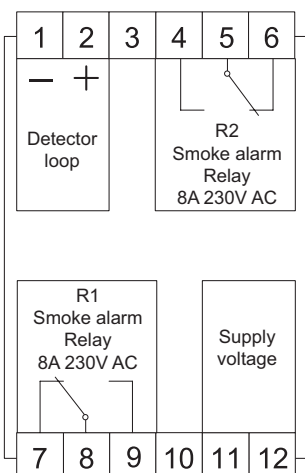
For detector type	S65, S50, S65-OE, S50-OE-GA4
Max. current in the alarm loop	70 mA
End resistor	2.2 kOhm (connected to the last detector in the loop)

Outputs

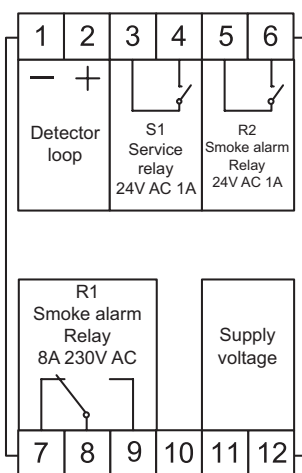
Smoke alarm	Relay R1:	change-over contact 230 V AC 8 A
	Relay R2:	(...-300/D): change-over contact 230 V AC 8 A (...-S-300/D): closing contact 24 V AC 1 A
Service alarm (type ...-S-300/D)	Relay S1:	closing contact 24 V AC 1 A

Wiring

ABV...-300/D



ABV...-S-300/D

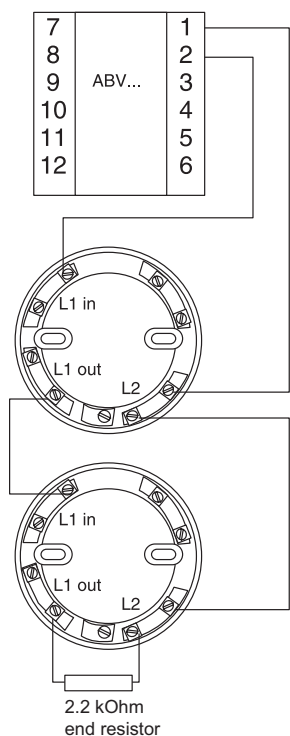


Relay R1 In the event of an alarm: The contact closes between 8-9.

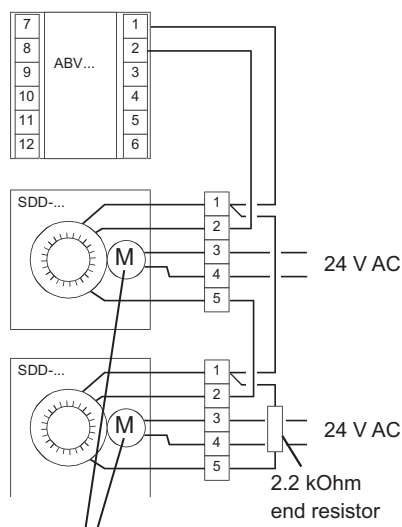
Relay R2 Type ABV...-300/D
In the event of an alarm: The contact closes between 4-5.
Type ABV...-S-300/D

Relay S1 In the event of a service alarm: The contact closes between 3-4.

S65, S50, S65-OE, S50-OE-GA4

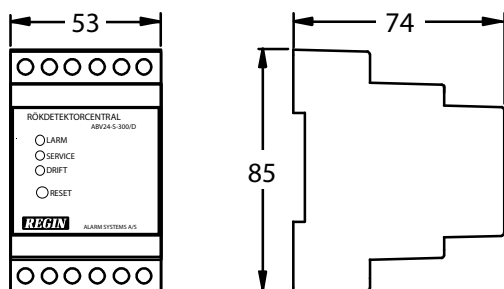


SDD...



The auxiliary fan is an accessory

Dimensions



Measurements in mm

Head Office Sweden
Phone: +46 31 720 02 00
Web: www.regin.se
Mail: info@regin.se

Sales Offices
France: +33 1 41 71 00 34
Germany: +49 30 77 99 40
Spain: +34 91 473 27 65
Hong Kong: +852 24 07 02 81
Singapore: +65 67 47 82 33

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