



ABV(24)-S-300/D

Control unit for smoke detectors

The ABV(24)-S-300/D control unit is used together with smoke detectors in the series S65... and SDD... The control unit provides power for connected smoke detectors and transmits smoke and service alarms.

- ✓ For detectors with service alarm signal
- ✓ For supply voltage 24 V AC/DC or 230 V AC
- ✓ Two relay contacts for alarms
- ✓ Works with both optical and ionising smoke detectors
- ✓ LEDs for operation, smoke alarm and service alarm
- ✓ Compact design for DIN-rail mounting

Function

ABV...-S-300/D is designed 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. The end resistor is delivered with the unit.

Features

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.

Smoke alarm

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

Service alarm

When the degree of accumulated dust and dirt have reached the level at which there is the risk of false alarms, a service alarm is given indicating that cleaning of the detectors is required. A yellow LED will light up on the control unit and the service alarm relay is activated.

Technical data

Current consumption	30 mA, normal operation
Ambient temperature	-10...+45°C, non-condensing
Mounting	DIN-rail
Protection class	IP20
Weight	
24 V model	0.16 kg
230 V model	0.23 kg

Input

Max. current in the alarm loop	70 mA
End resistor	2.2 kΩ (connected to the last detector in the loop)

Outputs

Smoke alarm	Relay R1: change-over relay 230 V AC 8 A Relay R2: closing relay 24 V AC 1 A
Service alarm	Relay S1: closing relay 24 V AC 1 A

Material

Cover	White makrolon plastic
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Models

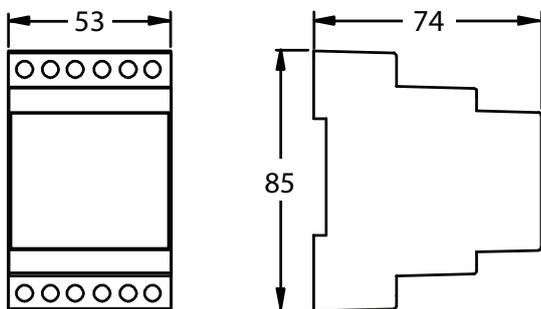
Article	Supply voltage
ABV-S-300/D	230 V AC ±10 %, 50-60 Hz
ABV24-S-300/D	24 V AC/DC ±10 %, 50-60 Hz

CE

EMC emissions & immunity standards: This product conforms to the requirements of the EMC Directive 2014/30/EU through product standards EN 61000-6-2 and EN 61000-6-2.

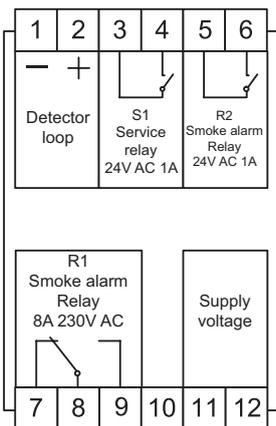
RoHS: This product conforms to the Directive 2011/65/EU of the European Parliament and of the Council.

Dimensions



Measurements in mm

Wiring

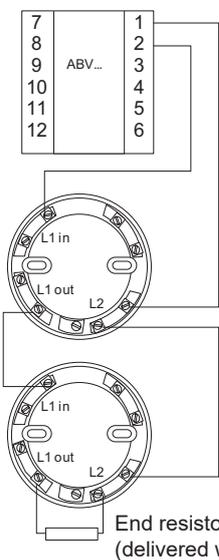


Relay R1 Change-over relay. In the event of an alarm: Closing relay between 8-9

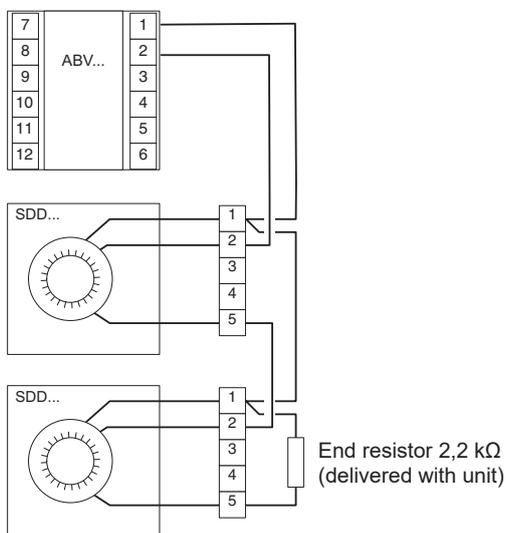
Relay R2 In the event of an alarm: Closing relay between 5-6

Relay S1 In the event of a service alarm: Closing relay between 3-4

Wiring ABV(24)-S-300/D



Wiring ABV(24)-S-300/D and S65...



Wiring ABV(24)-S-300/D and SDD...

Product documentation

Document	Description
Instruction ABV(24)-S-300/D	Instruction for installation of ABV(24)-S-300/D

The product documentation can be downloaded from www.regincontrols.com