Contrôleur d'Alarme Feu CTA.

ABAV-S3 CONTROL UNIT

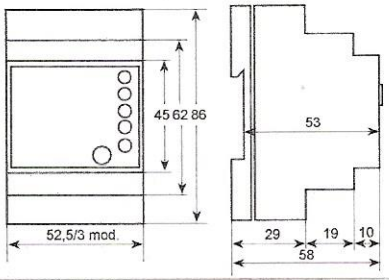
for smoke detectors with service alarm

CE

TECHNICAL DATA

Operating voltage:	230V AC ± 10 % 50-60 Hz 24V AC ± 10 % 50-60 Hz alternatively 24-30V DC. When ordering, state voltage.
Energy consumption:	1,8 VA
Alarm relay:	One changing contact 250V 8A One breaking contact 250V 8A
Service alarm relay:	One closing contact 250V 5A
Failure alarm realy:	One changing contact 250V 5A
Terminating resistor:	2,2 kOhm
Indications:	
Normal operation:	green LED
Service alarm:	yellow LED
Short circuit in detector circuit:	yellow LED
Interruption in detector circuit:	yellow LED
Alarm:	red LED
Number of detectors that can be connected:	30 smoke detectors
Mounting:	DIN-Rail
Option:	ETUK-1, Housing IP-54 for wall mounting
Surrounding temp.:	0 to 50°C
The following values applies for the detector circuit:	
Normal operation:	4 to 21 mA
Broken Line:	< 4 mA
Short circuit:	> 100 mA
Service alarm (contaminated detector):	> 21 mA
Alarm (smoke):	> 38 mA
Weight:	230V = 280g, 24V = 150g
Protection:	IP20

DIMENSIONS (mm)



FUNCTION

The unit is designed for DIN-Rail mounting with LED/ indications on the front panel. When a smoke detector, connected to the ABAV-S3, indicates alarm for smoke, the ABAV-S3 unit will trigger alarm relays, which can be used to stop ventilation fans and to close fire dampers.

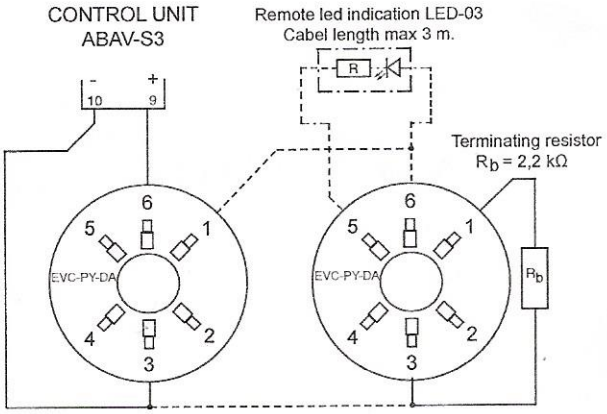
At alarm, a red LED is lit and at the same time the alarm relays drops. When a smoke detector indicates service alarm the yellow service alarm LED flashes quickly for one minute. After that, the relay is energized and the LED is showing fixed yellow light. If the service alarm of the smoke detector is remedied, the service alarm relay is de-energized and the yellow LED starts to blink slowly (alarm memory). Service alarm is an indication that the smoke detector is contaminated and should be replaced. Short circuit or interruption will energize the failure relay and at the same time a yellow LED is lit (for interruption there is a ten second delay).

If the short circuit or interruption is remedied, the failure relay is de-energized and the yellow LED starts to blink slowly (alarm memory).

Test of relays: Press the reset button during five seconds.

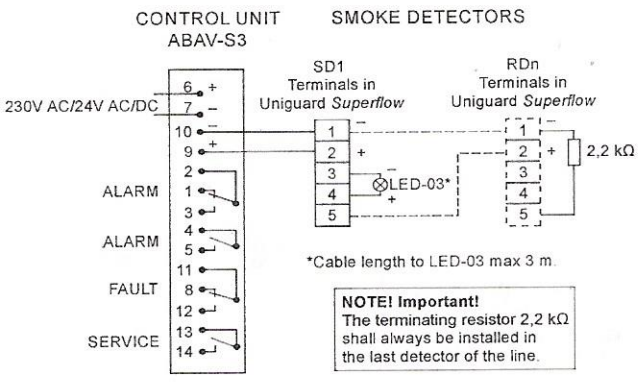
WIRING DIAGRAM

CEILING MOUNTED SMOKE DETECTORS



Base marking (relief No. in base = earlier Np. on label):
5 = -R, 6 = 2 E, 1 = 5 0, 2 = -RS, 3 = -1

DUCT MOUNTED SMOKE DETECTORS



The alarm relay and the failure relay outputs are shown in alarm/no power on condition and the service alarm relay is shown in operative/no power on condition.

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