

# ABAV-S3 230V ATEX CONTROL UNIT WITH ATEX BARRIER

## for smoke detector EVC-PY-IS ATEX

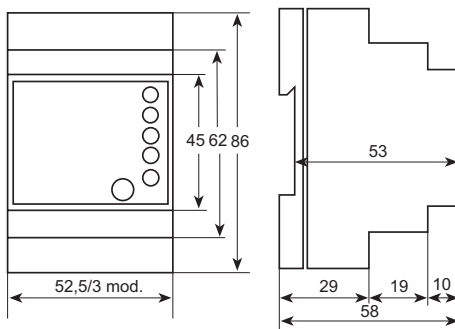


### TECHNICAL DATA

|   |   |
|---|---|
| <b>Supply voltage:</b>  | 230V AC, $\pm 10\%$ , 50-60 Hz                                  |
| <b>Power consumption:</b>                                       | 1.8 VA  |
| <b>Alarm outputs:</b>   | One alternating switch 250V, 8A<br>One breaking switch 250V, 8A |
| <b>Fault alarm output:</b>                                      | One alternating switch 250V, 5A                                 |
| <b>Terminating resistor:</b>                                    | 2.2 kOhm  |
| <b>Indications:</b>   |   |
| Operation:  | Green LED   |
| Short circuit in detector circuit:                              | Yellow LED  |
| Interruption in detector circuit:                               | Yellow LED  |
| Alarm:  | Red LED   |
| <b>Mounting:</b>  | DIN rail  |
| <b>Number of detectors that can be connected:</b>               | 1 EVC-PY-IS ATEX  |
| <b>Ambient temperature:</b>                                     | 0-50°C  |
| <b>Eex class for barrier and smoke detector:</b>                | Eex ia IIC T4<br>(Tamb -10°C to +50°C)                          |
| <b>The following values apply to the smoke detector circuit</b> |   |
| Short circuit (fault signal):                                   | > 100 mA  |
| Interrupt (fault signal):                                       | < 2.3 mA  |
| Alarm (smoke alarm):  | > 24.9 mA   |
| <b>Weight:</b>  | 230V=280 g  |
| <b>Protection class:</b>  | IP20  |

### DIMENSIONS

(mm)



### FUNCTION

ABAV-S3 230V ATEX comes with an ATEX barrier/insulator which is approved as an associated electrical appliance in intrinsically safe circuits as set out in  $\odot$  II (1) DG [EEx ia] IIC for the supply of certified or simple appliances into zone 0. The barrier/insulator is also approved for installation in zone 2 as set out in  $\odot$  II 3G EEx nA II T4.

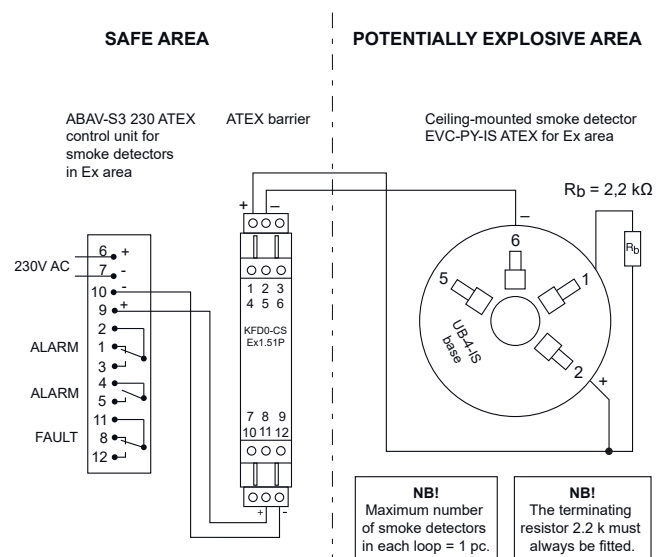
This control unit is designed to meet the need for reliable fire protection when used together with our smoke detectors. ABAV-S3 230V ATEX is fitted with relay contacts for controlling dampers and fans. In addition to smoke alarms, the ABAV-S3 230V ATEX is also fitted with a fault alarm relay.

In the event of a smoke alarm, a red LED lights up and the alarm relays drop at the same time.

Short circuits and interruptions energise the fault relay and alarm relays and at the same time the relevant LED lights up (interruption, about 10 seconds delay). If short circuits or interruptions return, the relays drop and the relevant LED starts to flash slowly: alarm memory.

Relay test: Press and hold the reset button for 5 seconds.

### CIRCUIT DIAGRAM



The alarm and fault relay contacts are displayed in de-energised/ alarm condition. Alarm relay max 8A, 250V. Fault relay max 5A, 250V.

### ORDERING EXAMPLE

| Item code         | Description  |
|-------------------|--|
| ABAV-S3 230V ATEX | Control unit for ATEX smoke detectors, comes with ATEX barrier |
| EVC-PY-IS ATEX    | ATEX smoke detector, opt, intrinsically safe, base included    |

### ACCESSORIES

| Item code   | Description  |
|-------------|--|
| EVC-PY-IS/I | ATEX smoke detector, opt, intrinsically safe, head |
| UB-4-IS     | Base for EVC-PY-IS/I intrinsically safe            |