

APPLICATION - ASW45 controller is destined to set working (by no-potential contacts of the relay) executing devices such as fans, signaling device, smoke flaps.

The executing devices are set working by the module after the detection of smoke by OSD23/03 detectors. They are stopped after approx. 30 sec. from the moment the detector stops signaling the presence of smoke.



THE PRINCIPLE OF OPERATION - The figure shows the state of the relay's contacts without power supply or in the operational state with NO/NC switch in NO position. The NO/NC switch is accessible after unbolting the controller on the laminate, on the print side. In NC position, the movable terminal of the relay is drawn back (contacts 10 is shorted with 11, and 13 with 14) during operational state.

When at least one smoke detector detects the presence of smoke in the air, the movable terminal is switched into the alarm state. The alarm is also signaled by "AL" control LED being lit. When the detector stops signaling the alarm (just after an alarm signal from the detector, the module resets automatically the operational line,) the relay's contacts maintain their alarm position for about 30 sec. (the 30-second delay of turning the alarm off can be switched off – look at the

specifications.)

The controller is equipped with protection against short circuit of the operational line. If the short circuit happens, the line will switch the relay into alarm and "SAB" control LED will light up.

The controller reacts to the removal of a detector out of a base or to an interruption in a detectors' line (what is called "sabotage"; in the last base 2k7 resistor has to be installed) in the same way as it reacts to a short circuit.

In the last base the terminal resistor has to be installed = 2,7kΩ.

MANUAL ON/OFF switch – any bistable switch – (joined with terminals 1 and 2) is destined to change a relay's state from an operational one into alarm for good.

RESET any monostable switch - resets detectors' alarm - it is useful especially when the function of the auto-reset is off.

CAUTION Whichever option is used, the module will reset the line if alarm current in the line is higher than 200mA (simultaneous entrance of several detectors into the alarm state.)

CONSTRUCTION - The controlling module is constructed as a single electronic module closed in cages fitted for installation on a DIN rail. The relay's contacts circuit is insulated from the module's electronic part. Power supply wires of the operational line and wires connecting a controlled device are connected using screw terminals 2.5 mm².

SPECIFICATIONS

Supply voltage	12V – 28V DC
Max. current:	
- during starting (60sec.)	55 mA
- operating current	40 mA (NO)
- alarm	160 mA
Max. number of OSD23detectors in a line	
- at supply voltage 12V	10
-at supply volatge 24V	30
Current-carrying capacity of the relay's contacts:	230V/8A
Control LEDs:	green – power supply red – the alarm state in a line yellow – the sabotage state in a detectors' line
Jumpers, the cutting of which switches off the functions:	red – autoreset black – 30 sec. delay yellow – the sabotage state, short-circuit in a fire watch line
Operating temperature range	-25°C to +55°C
Relative humidity	up to 80% at 40°C
Weight	120g
Dimentions	90x105x70 mm



