



Fire and explosion protection

CONEX

The control panel is installed near the protected equipment within reach of the operator outside the explosion and fire zones. Cabling from detectors and actuators, power supply to the control panel via mains voltage, and optical or acoustic signaling, signals to / from the control system and other blockages and couplings can be connected to the control panel.

The control panel is powered by 230Vac (-10% to + 15%), the supply must be protected by a single-pole circuit breaker $I_n = 10A$ characteristic B or C. Furthermore, the supply is protected by a third-stage overvoltage protection in combination with an RF filter against undesirable effects of atmospheric and operational overvoltage. Third stage overvoltage protection can be installed outside the control panel or implemented inside the control panel. It is recommended that the customer be provided with a first and second surge protection.



The 230Vac power supply must meet the emergency power conditions (UPS backup, two independent sources, etc.) or, in the event of a power failure, it must be restored within 4 hours. At the same time, the control panel power supply must be solved so that it is not switched off by the control panel (via their relay contacts).

Any failure of the 230Vac power supply is treated by using an internal backup battery (pair of batteries) of 24Vdc / 2,3Ah with a backup time of at least 4 hours of operation. The worst possible option is considered, depending on the configuration of the connected loads, the backup time may be longer in individual cases. In the event of a power failure of more than 4 hours, the internal backup battery may be exhausted and the control panel will not function properly.

DATA SHEET

TECHNICAL PARAMETERS	
Operating voltage	100-240V AC or 24VDC
Power terminal	Cross-section of wire up to 2,5mm 500V 24A
Current consumption	It is a sum of supply current of all components and connected devices. Battery 250mA up to 1,5A / 24VDC, 60W according to the operating mode, number of connected detectors and other dependent devices.
Backup	Battery 2x12V/ 2,6Ah, backup operation at least for 4 hours of operation.
Operating temperature of electronic	-20 to 50°C
Operating temperature of backup battery	-5 to 40°C
Protected zone	2
Line detectors	Power supply 24V, 0-255mA – user-selectable Evaluation of resistance line 0 to 65kΩ – user-selectable It is possible to define the allowed current consumption of detector and at the same time to determine the decisive levels of the signal resistance time – ALARM, RUN, FAULT
Activation outputs	2A/ 24VDC – 0 to 820Ω – user-selectable It is possible to define the allowed detonator resistor value
Relay outputs	24VDC/ 8A – user-selectable switching It is possible to combine between zones, delay and react to various events – ALARM, SERVIS, RUN, FAULT
Bus	CAN, 250kbps
Signalization	Three-colors LED diodes –red, green, orange (Operation, Fault, Alarm, Pre-alarm, Battery fault, Power failure)
Visualization	Graphical LCD display 160x128 pixels with white backlight



