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 In = 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).

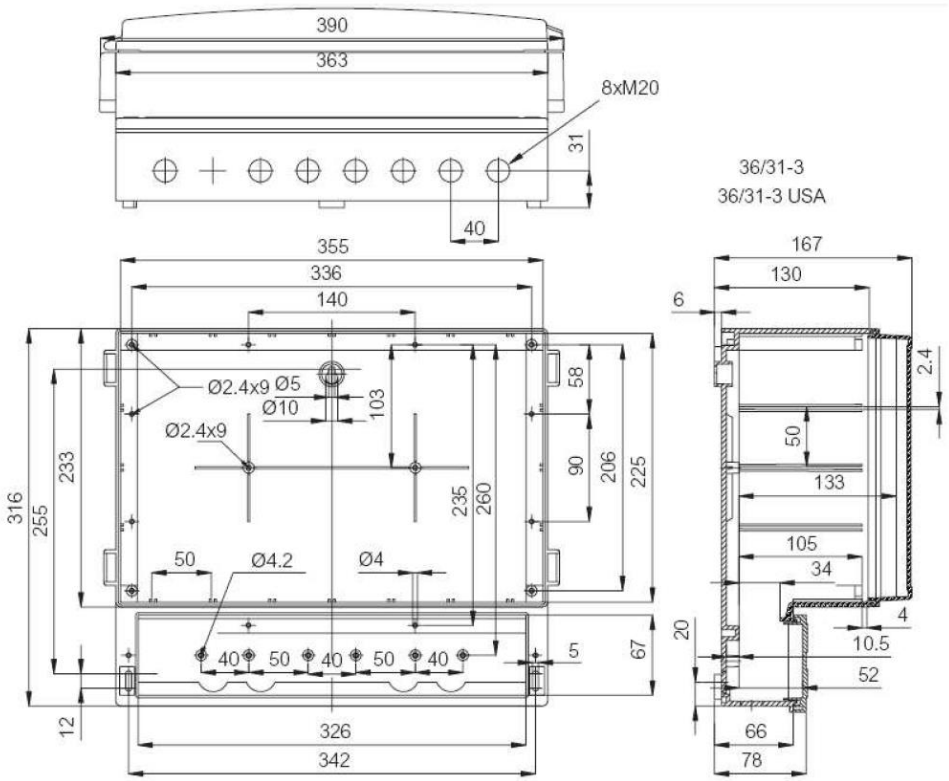
Any failure of the 230Vac power supply is treated by using an internal backup battery (pair of batteries) of 24Vdc / 2,3Ah with a backup time of at least 4 hours of operation. The worst possible option is considered, depending on the configuration of the connected loads, the backup time may be longer 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.

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

DATASHEET

Control	User buttons
Configuration	Master PC application
Recording events	1024x events
Response time	2,0ms + 0,1ms/zone or adjustable 1 – 240s
IP code	IP 65

DIMENSIONS



DATASHEET

Fire and explosion protection

GSM MODULE

DATASHEET

The universal GSM communicator and controller allow you to report and control individual states of the control system. Control can be performed using standard SMS. Two power outputs are available for control, which can be either status or pulse. For status reporting, it has four inputs responding to the GND connection. Up to 100 authorized phone numbers can be stored in the device. It can be supplemented with a backup battery, which ensures the function even in case of power failure. Functions can be set locally via USB cable or remotely.

Use

With the help of four logical inputs (A to D), the device allows to send text information via SMS to the set telephone numbers and possibly call them (ring with a short call). The device also offers two power relay outputs, which can be controlled by preset SMS commands or free ringing according to settings from stored or unsaved phone numbers.

Relay control:

- SMS-controlled relay. You can set your own texts to enable / disable each relay (X and Y). In the setting, the IMPULS function can be set by both relays. The relay then switches on for the set time when activated.
- By ringing. Both relays (X and Y) can be enabled from a common list of up to 100 phone numbers stored in the communicator. The incoming call does not answer but checks the caller's number, the incoming call is rejected and the relevant relay is activated / deactivated (activated in the IMPULS function for the set time).
- Ringing with a limited number of uses. When entering authorized numbers, the number of uses for each phone number can be set. When the set number is exceeded, further calls from the number are ignored

Input status report:

- By sending an SMS when activating / deactivating the input (A to D) with the GND terminal. Each input can be set to text messages that are sent to numbers from the list in the communicator.
- Status Monitor. The status of all inputs and outputs can be monitored using the "STATUS" query SMS command.

TECHNICAL PARAMETERS	
Power supply	10.5 ÷ 15 V DC
Standby consumption	approx. 25 mA (+17 mA each relay)
Max. taking the device for GSM communication	200 mA
GSM module band E-GSM	850/900/1800/1900 MHz
Transmitter Output Power	2 W for GSM 850/900 1 W for GSM 1800/1900
Method of activating inputs A, B, C, D	by connecting to GND
Loads of X and Y outputs:	- resistive load max. 2.5 A / 250 V AC - inductive (capacitive), incandescent lamp max. 0.5 A / 250 V AC
Designed for	II. indoor general (-10 ° C to +40 ° C)
Dimensions (without antenna)	76 x 110 x 33 mm
GSM antenna connection	screwed into SMA connector

rsbp