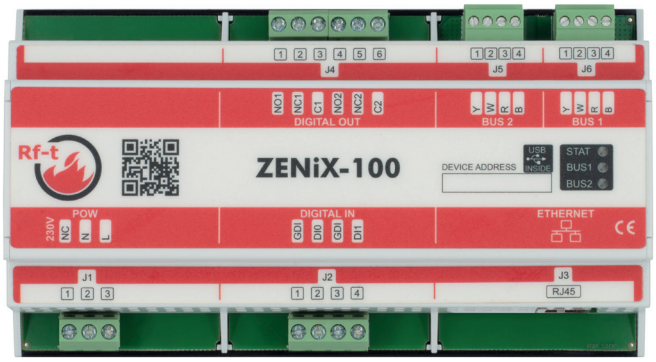
CONTROLLER

The ZENiX-100 controller (master), part of the ZENiX controlling system, is designed to monitor and control fire dampers and smoke control dampers and shutters, as well as managing digital inputs and outputs. Each controller can handle up to 100 field units. Several ZENiX-100 controllers can be connected in a single network, allowing the ZENiX controlling system to be implemented in the largest buildings.

The ZENiX-100 can be used with a pre-programmed basic fire scenario, but also to program elaborate multiple scenarios (matrix) if required.
It can be used as a stand alone solution or can be integrated to the building management system via a BACnet IP connection.



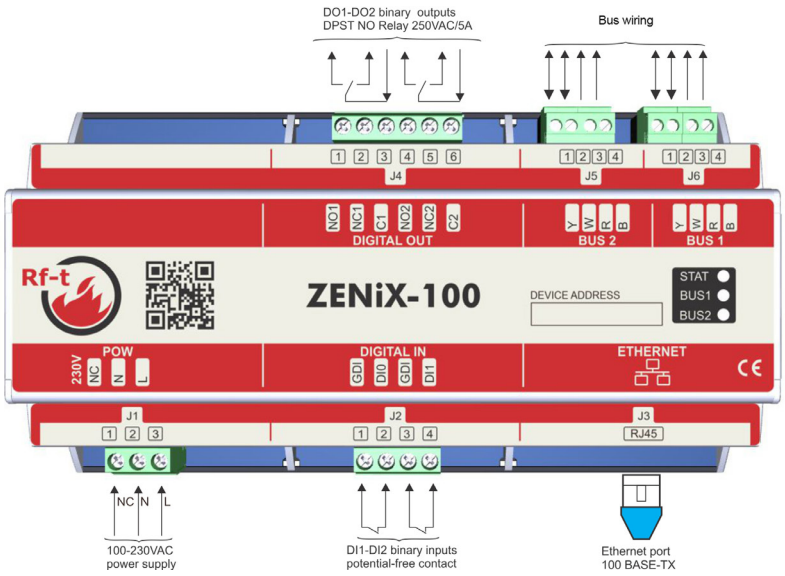
TECHNICAL DATA

ELECTRICAL DATA	
Nominal voltage	AC 230 V 50/60 Hz
Voltage range	AC 230V +-15%
Power consumption	24 W
Wire sizing	25 VA
Connections	Power supply terminal 3 x max. 1.5 mm^2 Bus terminal 2 x 4 x max. 1.5 mm^2 wire (4 colored wire)
Integrated digital inputs	2 x potential free digital inputs (4 terminals, wires min. 0.5 mm^2 to max. 1.5 mm^2)
Integrated relay output	2 x binary outputs (6 terminals, wires min. 0.5 mm^2 to max. 1.5 mm^2) – NO/NC relays (125 V AC – 60 W)
Integrated Ethernet port	Ethernet 10/100 Mbps port – RJ45 connector with transformer
Integrated USB port	USB type A micro – port for basic set-up and service, under the top cover
CLASSIFICATIONS	
CB Certificate	CB certificate according to EN-IEC 60730-1: Automatic electrical controls – Part 1: General requirements.
EMC	CE according to 2004/108/EC – EN 61000-6-1; EN 61000-6-2 ; EN 61000-6-3
Low-voltage-directive	CE according to 2006/95/EC
Ambient humidity range	Compliance to EN 60730-1 max. 95 % RH
Ambient temperature range	0 … +50 °C
Non-operating temperature	–40 … +85 °C
Maintenance	Maintenance-free
DIMENSIONS / WEIGHT	
Dimensions	DIN-rail mounting – 162 mm length. 162 x 90 x 62 mm
Weight	400 g

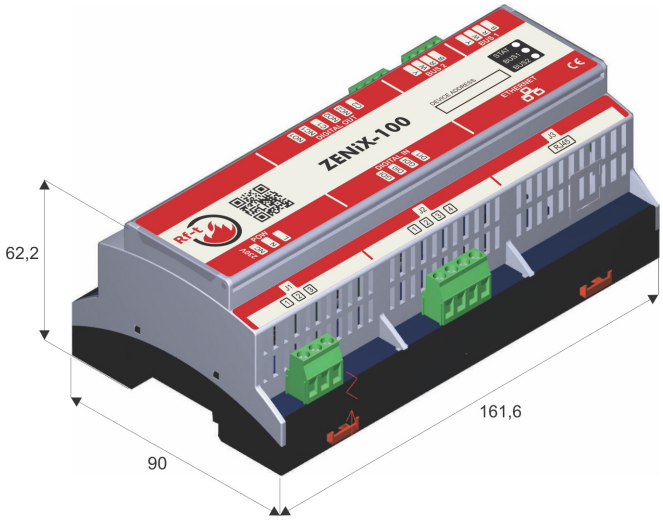
PRODUCT FEATURES

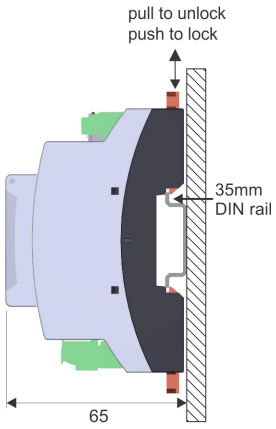
Field devices	Can monitor up to 100 ZENiX field devices (or 200 elements - some field devices can control more than one element). Typical applications include controlling fire dampers, smoke control dampers and shutters and DI/DO modules.
Inputs/outputs	The ZENiX-100 has two digital inputs dedicated for connection with the fire detection system. Two 125V AC 60W NO/NC output relays are triggered by the digital inputs, programmable
Bus length	Up to 1000 m
Bus topology	Ring or line
Bus wiring	Bus wiring requires a 4-wired cable (preferably 2 x 2x 0.8 mm^2). 2 wires are used for the bus communication (yellow COM+, white COM-) and 2 wires for the bus powering (red POW+, black POW-)
Incorporated leds	3 incorpated LEDs for bus, alarms and errors monitoring
Automatic device recognition	The ZENiX-100 automatically identifies and addresses field devices during the data point check
Precommisioning	Only power to the ZENiX-100 is required for the wiring check and field devices identification. Permanent monitoring through own powering of the bus
Wire check	Detection and localisation of wiring mistakes if any
Integrated software	The ZENiX Webtool software is directly available on the ZENiX-100 module. Scenarios can be directly integrated on the controller
Preprogrammed	2 integrated potential free digital inputs allow for an automatic alarm generation on the bus , launching a preprogrammed basic scenario. Inputs are connected to the fire detection/alarm panel.
Programming	Via the ZENiX webtool, the ZENiX programming tool and the use of digital input modules (ZENiX DI12 for ex.) it is possible to generate a full matrix, including priorities, multiple alarm levels, conditional alarms etc.
Direct or remote access	The ZENiX Webtool allows for direct or remote changes to scenarios, alarms, naming, testing etc.
Functions	Naming of connected dampers and devices; Possibility to run full tests of individual dampers or groups of dampers and devices; Implementation of periodical tests, results stored in reports; cascade system with priority alarms
Bms connection	BMS connection via integrated BACnet IP gateway
Predict rtc	Integrated real time clock (for use in stand alone mode)
Output solutions	The ZENiX-100 controller allows for output on panel PC solutions, LED-boards, integration into BMS etc.
Large system	Multiple ZENiX-100 or other ZENiX controllers can be combined, sharing alarms and matrix programming

ELECTRICAL INSTALLATION



DIMENSIONS AND MOUNTING





SAFETY NOTES

- The device is not allowed to be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.
- Caution: Power supply voltage!
- It may only be installed by suitably trained personnel. Any legal regulations or regulations issued by authorities must be observed during assembly.
- The device may only be opened at the manufacturer's site. It does not contain any parts that can be replaced or repaired by the user.
- The device contains electrical and electronic components and is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.

If the product is manipulated in any other way than described, Rf-Technologies will decline any responsibility and the guarantee will immediately expire!

ENGLISH