## CONTROLLER

The ZENiX-500 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 500 field units. Several controllers can be connected in a single network, allowing the ZENiX controlling system to be implemented in the largest buildings.

The ZENiX-500 can be programmed for basic fire scenarios, 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 managements system via a BACnet IP connection.
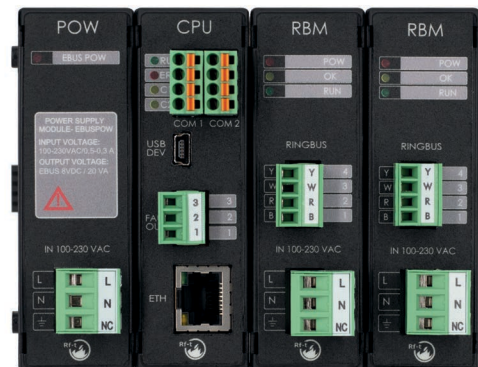
TECHNICAL DATA

ELECTRICAL DATA	
Nominal voltage	AC 230 V 50/60 Hz
Voltage range	AC 230V +-15%
For wire sizing	25 VA
Power consumption	40 W
Connecting	3 x Power supply terminal 3 x 1.5 mm2 2 x RingBus terminal 4 x 1,5 mm2 wire
Wire stripping length	8 mm
SAFETY	
Degree of protection	IP20
EMC	CE according to 2004/108/EC
Low-voltage-directive	CE according to 2006/95/EC
Ambient humidity range	IEC 60730-1 max. 95 %
Ambient temperature range	0 … +50°C
Non-operating temperature	−40 … +85°C
Maintenance	Maintenance-free
DIMENSIONS / WEIGHT	
Dimensions	86 x 108 x 120 mm

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PRODUCT FEATURES

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Field devices	Can monitor up to 500 ZENiX field devices (or 1000 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
Bus length	Up to 5000 m
Bus topology	Ring or line
Bus wiring	Bus wiring requires a 4-wired cable (preferably 2 x 2 x 0.8mm^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	Incorporated LEDs for power, bus communication, error monitoring and bus power. LEDs for BMS communication
Automatic device recognition	The ZENiX-500 automatically identifies and addresses field devices during the data point check
Precommissioning	Only power to the ZENiX-500 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-500 module. Scenarios can be directly integrated on the controller
Programming	Via the ZENiX Webtool, the ZENiX Programming tool and the use of digital inputs (see ZENiX-500 DI16) 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
Bus connection	BMS connection provided via ethernet port
Predict rtc	Integrated real time clock (for use in stand alone mode)
Output solutions	The ZENiX-500 controller allows for output on a panel PC solutions, LED boards, integrated into BMS etc. Digital output module available (see ZENiX-500 DO12)
Large system	Multiple ZENiX-500 or other ZENiX controllers can be combined, sharing alarms and matrix programming

ELECTRICAL INSTALLATION
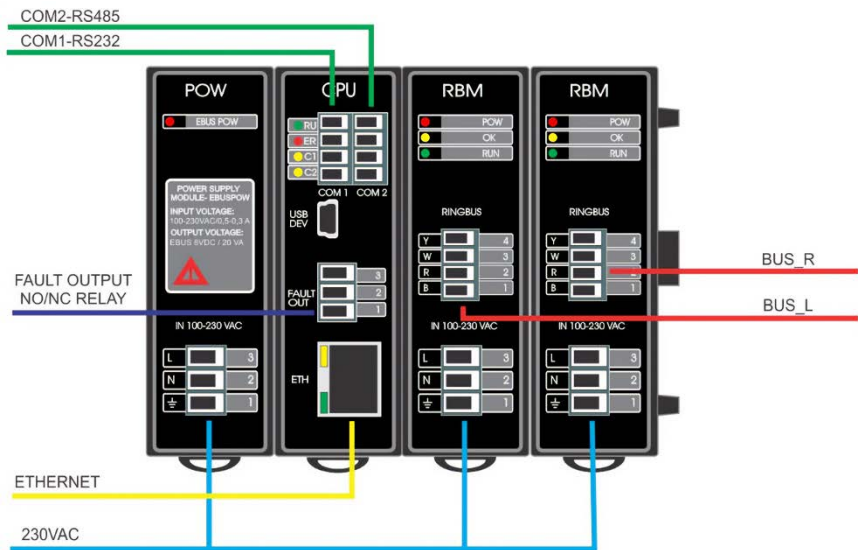
DIMENSIONS AND MOUNTING
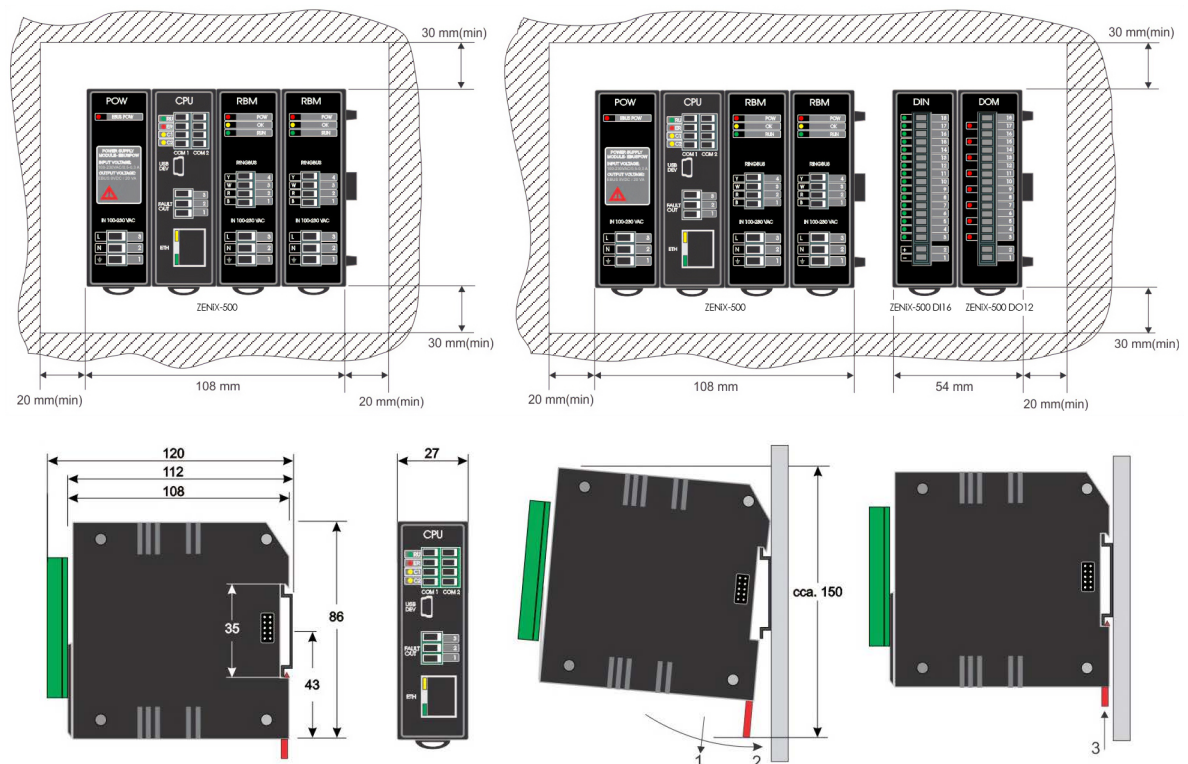
SAFETY NOTES

- 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!

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