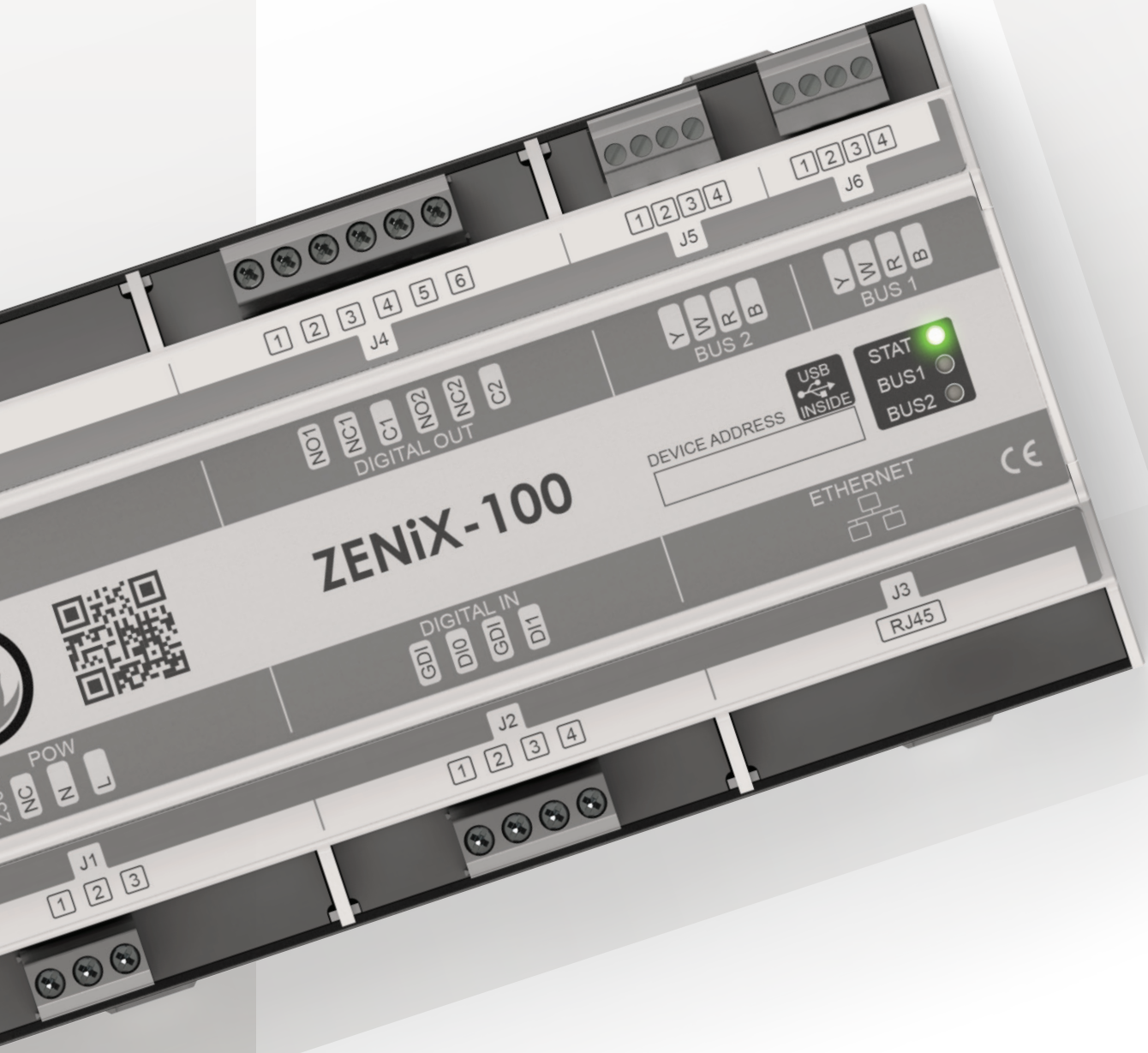
ZENiX

Monitoring and controlling system for fire dampers
and smoke control systems



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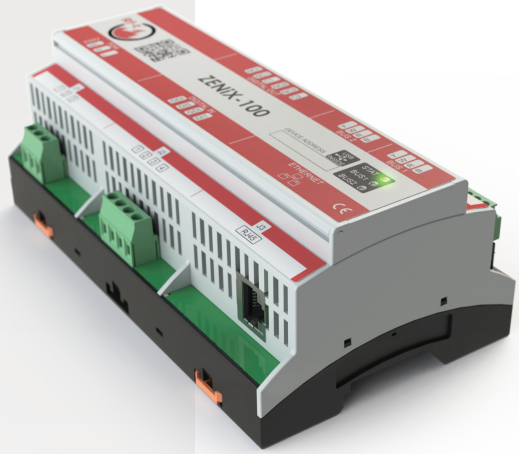
What's ZENiX?

ZENiX is a comprehensive range of products designed to monitor and control fire safety systems, including fire dampers, smoke control dampers, shutters, fans, and various digital inputs and outputs. All ZENiX devices are connected to a bus network that continuously monitors the status of each component.

The system integrates seamlessly with fire detection and building management systems, executing predefined actions when needed. The ZENiX system monitors every connected component automatically and reports any issues. It keeps track of everything.

In the event of a fire alarm, ZENiX triggers specific scenarios, bringing all fire safety systems to their safety mode and providing real-time status updates.



1. Simplicity combined with efficiency

Launched in 2022, ZENiX has been installed in hundreds of projects, ranging from small buildings to large-scale developments like hospitals, schools, hotels, senior housing, offices, residential complexes, high rises, datacentres, and industrial facilities. Why? Because ZENiX combines simplicity with efficiency.

The ZENiX system is designed to be easy to install, reducing time and complexity:

• **Integrated Design**: The unique ONE-X actuator combines a field module and actuator into one device - no extra wiring between components.

• **Pre-Configured Field Modules**: Each field device comes with its own unique ID, so there's no need for additional addressing or configuration after installation.

• **Flexible Cabling**: Use standard electrical cables, saving you time and money - no need for specialized, shielded, or expensive cables.

• **24V Power Supply**: The bus operates with a simple 24V power supply (provided by the ZENiX-100 controller) - no need for certified electricians to install the bus network.

• **Colour-Coded Connectors**: These make wiring mistakes less likely, ensuring quick and easy installation.

• **Quick Verification**: Once you complete installation, of the whole project or just a floor or section, you can check your work in just a few minutes. The system will immediately flag any wiring errors and specify which connections need attention - even without powering the field devices.

• **User-Friendly Software**: The ZENiX software is intuitive and makes datapoint checks easy for anyone to perform, adding value to your service offering.

THE SIMPLICITY OF THE ZENIX SYSTEM GIVES YOU GREATER CONTROL OVER YOUR PROJECT, HELPING YOU STAY ON SCHEDULE AND WITHIN BUDGET, WITH FEWER MISTAKES.

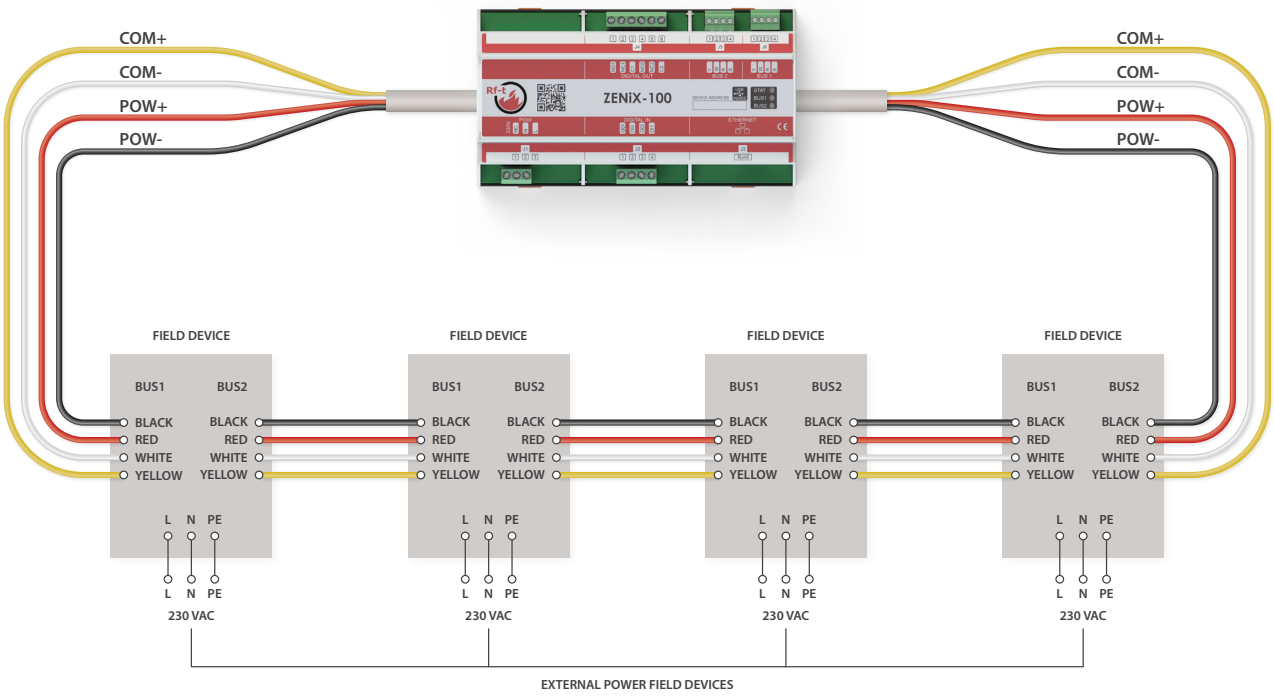
2. ONE-X: integrated fire damper actuator

The ONE-X is a unique component: it's a fire damper actuator with an integrated field module. As with all other ZENiX components, it has a predefined unique address and doesn't require any addressing nor configuration. It is supplied mounted on the fire damper. It is ready to be connected.

Because it is integrated, there is no need for a connection to the field module: this saves time, money and reduces the risks of mistakes.

A higher level of safety

The ONE-X, like its counterpart the ONE-T, delivers a superior level of fire safety compared to any other actuator on the market. Equipped with a spring-return mechanism triggered by a fusible link, it automatically closes the fire damper in the event of a fire - even if the actuator is not yet wired or powered. Additionally, the blade position can be monitored via the bus system, regardless of whether the actuator is powered or if the power is lost.

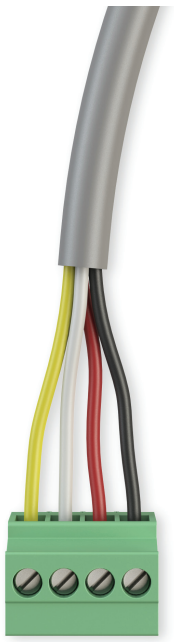


3. Cabling: made easy, at lower cost

Master and field devices are connected using a 4-wire bus cable. This cable provides both bus communication and power supply for the communication system itself. As long as the master is powered, it can continue monitoring the status of all connected devices, even if they themselves are no longer powered.

There is more: with ZENiX, you can perform a datapoint check and validate all wiring and installations without needing to power every damper and actuator. Simply supply 230V to the ZENiX controller, and you're ready to verify your installation. Just finished work in a specific area? Quickly confirm all wiring and connections on the spot.

A standout feature of ZENiX is its exceptionally stable bus communication, offering a high level of noise immunity. This eliminates the need for cables with special shielding - standard cables are all you need. We recommend a 2 x 2 x 0.8 mm^2 cable, ideally with colour-coded wires. All connectors on the ZENiX devices are also colour-coded (red, black, yellow, and white), making it easy to avoid wiring errors.



4. Everything you need – a comprehensive range

The ZENiX range provides all the components needed to monitor and control fire dampers, smoke control systems, and more.

ZENIX-100 MASTER CONTROLLER

The heart of the system, the ZENiX-100 manages the bus network and all commands. It monitors the status of all connected devices—even if they're not powered. It contains the programming and operating software. It also acts as a gateway to communicate with the building management system.

WIDE RANGE OF FIELD DEVICES

The ZENiX portfolio includes devices to control motorized fire dampers, smoke control dampers, shutters, fans. It also supports monitoring of mechanical dampers, cartridges, smoke detectors, and more. In addition, the range includes various digital inputs and outputs, for the integration of fire alarms and connection to other building automation systems.

Each device has its own unique ID and logic, and only needs to be wired to the system —no configuration needed. The ZENiX-100 master automatically identifies each device and accesses the appropriate registers.

Rf-Technologies offers a range of modular panels, tailored to your project needs. Each cabinet includes master controllers, built-in digital inputs for connection to the fire detection and alarm system, various outputs, Ethernet connections, and power supplies. Everything is DIN-rail mounted and pre-wired, connected to terminal blocks at the bottom of the cabinet. Cabinets are delivered with a detailed electrical diagram for easy installation.

Each ZENiX Cabinet can optionally be supplied with a built-in touchscreen on the door. This interface provides real-time status of the system and all connected devices. Depending on access permissions, users can monitor, control, and test components, or even display the status of fire dampers over a building floor plan.

PANEL PCS

Standalone panel PCs are also available for system visualization. These can be installed as repeater units in specific areas of the building to provide localized access to system status.

SEAMLESS INTEGRATION WITH OTHER BUILDING SYSTEMS

The ZENiX-100 master controller includes a built-in BACnet IP gateway, enabling seamless integration with the building management systems. Object lists can be easily exported from the controller for fast setup and configuration.

5. Intuitive software for powerful control

ZENiX software is both comprehensive and user-friendly, designed to handle everything from basic configurations to complex cause-and-effect logic involving zones, priority levels, and conditional alarms.

THE ZENIX WEBTOOL - BUILT-IN AND READY TO USE

Pre-installed on every ZENiX-100 master controller, the ZENiX Webtool serves as the system's core operating software. It enables datapoint checks by automatically detecting all devices on the bus. Wiring errors are clearly identified, pinpointing the affected wire and its location within the network.

The Webtool provides real-time visualization of every device's status, including alarms. Users can execute function tests (e.g., damper actuation or output testing) and send commands directly from the interface. Devices can be renamed, grouped into zones, and managed efficiently. The software also logs network events and allows the creation of detailed reports for documentation.

THE ZENIX PROGRAMMING TOOL

This standalone PC software enables programming more complex scenarios, based on a predefined cause-and-effect matrix. Once you have uploaded your project, identified all participants during the datapoint check, you can begin defining behaviours by checking boxes, renaming devices, and organizing them into zones.
The tool supports:

- Multiple physical and conditional inputs
- Fully programmable outputs
- Block-based programming logic
- Priority-level definition for layered response strategies

Scenarios can be created for various situations, such as comfort ventilation, fire alarm responses, and firemen override actions.

The ZENiX Programming Tool also allows the creation of BACnet objects and helps generate EDE files for integration with building management systems. Once the programming is complete, configurations can be uploaded to the ZENiX-100 master controller—either onsite or remotely.

After completing a training at our ZENiX Academy you will receive a ZENiX programming tool license.

6. Support you can rely on

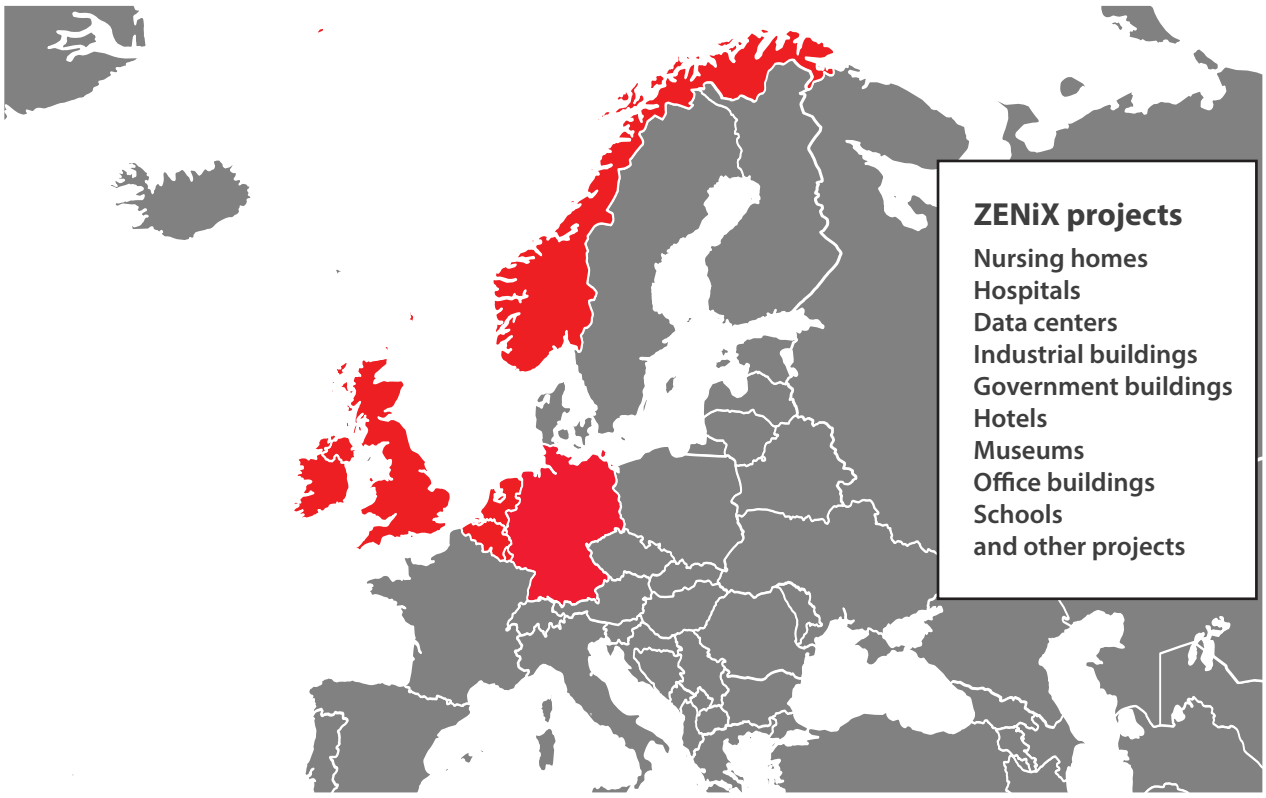
The ZENiX system is designed with simplicity at its core. For instance, we have integrated the field module into the ONE-X fire damper actuator—reducing complexity and saving time.

All field devices and hardware are straightforward to wire, while the intuitive software makes validating bus communication quick and easy. The programming tool offers rapid setup and powerful options for more advanced configurations.

ALWAYS AT YOUR SIDE

At every stage—from system design and datapoint checks to commissioning, training, and technical support—Rf-Technologies and our partners are here to assist you, either on-site or remotely. You decide how involved you want to be; we'll provide the fire safety expertise you need to succeed.

ZENiX has already been deployed in hundreds of projects across Europe, from compact installations to very large developments. Typically, we collaborate closely with installers on their first project. After gaining experience, many of them go on to independently manage all aspects of future installations.



SMART AND SIMPLE MONITORING OF FIRE AND SMOKE CONTROL DAMPERS

Monitoring and controlling fire and smoke control dampers doesn't have to be complicated. With ZENiX you get your share of the added value of installing such a system.

Need assistance with programming?

We can handle it for you, or provide training so you can carry out datapoint checks, programming, and commissioning on your own. Many installers are already ZENiX certified partners.

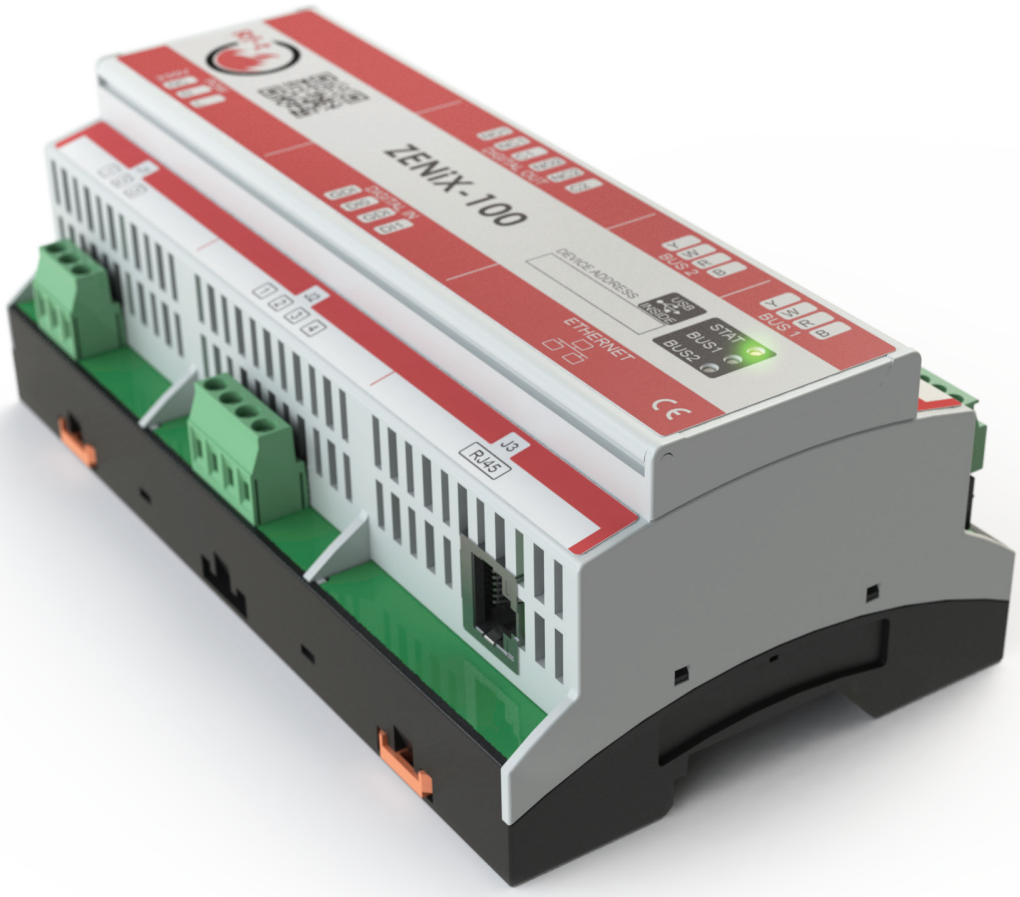
ZENiX

DO YOU HAVE QUESTION?
WANT MORE INFORMATION ABOUT OUR TRAININGS?
NEED ASSISTANCE FOR YOUR PROJECT?

CONTACT OUR EXPERTS

E-mail: zenix@rft.eu
or give us a call: +32 9 331 61 26

Discover all technical information on our website: rft.eu




ZENIX-100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Rf-Technologies

OPEN TO INNOVATION, CLOSED TO FIRE

Experts in passive fire protection. Rf-Technologies develops and manufactures innovative solutions for compartmentation and smoke control in buildings.
Our extensive range – from fire and smoke control dampers to intelligent controls, fire-rated grilles and collars – guarantees safety and ease of use in every project.

Need technical info or support?
Visit www.rft.eu for product details, selection tools and project-specific documentation.

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