ZR451-3

Ziton series radio input/output unit complete with battery pack

General

The ZR451-3 is a wireless, 868 MHz single channel input/output unit. It provides a method of interfacing a supervised input or potential free output signal into and out of the fire detection and alarm system in areas where the installation of system wiring is not an option.

Usage

As an input the ZR451-3 may receive signals from other alarm equipment, e.g. beam detectors, aspiration detectors etc. Used as an output the unit switches equipment controlled by the fire detection system, e.g. air conditioning systems, magnetic door release units etc. Both input and output facilities are available from the same unit and may be operated simultaneously or individually, as programmed at the fire control panel.

The system

The ZR451-3 communicates with the main control panel via a hardwired, radio loop module that can be installed anywhere on the ZP loop. When the input gets an alarm signal it passes it via the radio loop module to the main fire control panel where it is processed. The output of the interface provides volt free change over contacts for connecting ancillary equipment and is programmed separately, activated individually on in a group.

High intensity LED indicators positioned on the ZR451-3 may be illuminated by a manually activated push button to identify when the interface has operated, providing clear identification of the signal source.

Installed as part of a ZP addressable system, up to 127 line devices (sensors, call points or interface units) may be connected to each of the control panel loops. Each wireless device is assigned its own IDENT address with which the main control panel communicates with it, providing the same system facilities as directly wired devices.

Power supply

The ZR451-3 is powered by 6 Duracell AA MN1500 LR6 alkaline batteries providing up to 5 years of operational life under normal site conditions. The ZR451-3 features battery condition monitoring and reporting.



Details

- Addressable input/output interface unit
- Wire free activation
- Volt free relay output
- Monitored input for fire and fault
- Two way radio communication

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Technical specifications

General

Status indication	6 LEDs Illuminated by push switch operation
Compatibility	All ZP systems via ZPR868 radio loop module

Electrical

Power supply type	Batteries
Operating voltage	6 x Duracell AA MN1500 LR6 alkaline batteries

Output

Output type and rating	Volt free contact, rated 2 A @ 24 VDC

Physical

Physical dimensions	240 x 120 x 50 mm (W x H x D)
Net weight	600 g
Colour	Cool grey
Mounting type	Surface mount
Material	Moulded ABS

Environmental

Operating temperature	-10 to +70°C
Relative humidity	10 to 95% noncondensing
Environment	Indoor
IP rating	IP42 (EN60529 rating)

Regulatory

Certification	CPD, EN54-18, EN54-25
Approval	ENTSI 300-220

Monitoring

	Continuously self-checking

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