ZCR868-C

Conventional wirless communicator

General

The ZCR868-C is a 24VDC powered wireless cluster communicator for interfacing of wireless 868 MHz Ziton fire alarm devices into a conventional ZP fire alarm system. It enables these wireless devices to be controlled and monitored directly from the CIE, and provides a seamless interface between wireless devices and the CIE.

System design

A cluster communicator comprises of a radio transceiver capable of communicating with up to 30 wireless devices. The ZCR868-C communicates directly to a ZCR452 connected to a conventional interface, relaying all messages from the wireless field devices.

Seamless addition of wireless devices

Every wireless device controlled through a cluster communicator has its own unique address with which the cluster communicator communicates with it, providing the same system capabilities as directly wired devices. A full range of wireless detection and alarm devices is available, including multi-sensors capable of dual sensing heat and smoke, smoke only or heat only configurations, manual call points, notification devices (sounders & beacons) as well as input/output units and remote indicators.

When connected to a conventional interface, the specific device message is translated into a general zone message for reporting to the CIE. Mode details, including the address of the device and the specific alarm reported, are however still available on the LCD display of the ZCR868-C greatly enhancing the diagnostic capabilities of the conventional wireless system.

Full flexibility

Wireless devices are featured in many fire detection and alarm systems, specified where the installation of hard wiring would be difficult or impossible to complete, decorative finishes to the interior of the protected building preclude wiring runs or where the time scales to complete installation are minimal. Cluster communicators allow the system designer full flexibility in selecting the locations of wireless devices anywhere in the system.



Details

- 24VDC operation
- 2-Way communication with up to 30 wireless devices
- Diversity transceivers allow maximum operational range
- Variable power output
- ETSI 300-220 approved
- EN54-18, 25 complaint and CPR certified

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Technical specifications

General

Wireless frequency	868 MHz
Compatibility	All ZP conventional panels and conventional interfaces

Electrical

Operating voltage	16 to 24 VDC
Current consumption	77 mA (Max.) 26 mA (Typical)

Physical

Physical dimensions	270 x 205 x 75 mm
Net weight	950 g
Colour	Grey (Pantone 428c)
Mounting type	Surface mount
Material	Plastic

Environmental

Operating temperature	-10 to +50°C
Storage temperature	-20 to +60°C
Relative humidity	0 to 95% noncondensing
Environment	Indoor
IP rating	IP54

Regulatory

Certification	EN54-18, EN54-25
Approvals	EN54-18, 25

Environment

Installation	Indoor (Type A)

Wireless

Output transmitter power	Variable 0 to 14 dBm

Compatible products

Category	Reference	Description
Interface unit	ZCC868	Configuration cable & software for 868 Mhz controllers

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