ZPR868-H

Ziton series protocol, 868 MHz, 4-loop radio loop module (HUB)

General

The ZPR868-H is a Ziton protocol, radio hub for interfacing up to 4 loops of wireless 868 MHz fire alarm devices into a ZP fire alarm system. It enables these wireless devices to be controlled directly from the ZP panel, and provides a seamless interface between the panel and the wireless devices.

Performance and Range

With support for smart cluster technology, the ZPR868-H provides extended wireless coverage over zone type, wireless systems. Diversity antennae allows for extended communication range in all directions, whilst multipath communication techniques minimises the risk of interference from external sources.

System Design

With up to 4 hardware loops connected directly from the Ziton fire alarm CIE to the ZPR868-H hub, every devices on each of the CIE loops may be connected wirelessly. Cluster communicators (ZPR868-C or ZPR868-CM) communicate on one side wirelessly to the hub, and on the other side to up to 31 wireless devices, either detectors, notification and/or IO units and even other clusters. When redundancy is required, multipath communication enables clusters to talk to other clusters to find a reliable communication path back to the hub should its own dual communication frequencies be blocked. Clusters can also communicate with other clusters to extend the wireless communication distance for large installations.

Full flexibility

Wireless devices are featured in many fire detection and alarm systems, and are 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.



Details

- Fully loop powered
- 4-Loop connectivity to up to 504 wireless devices
- 2-way communication with up to 31 wireless clusters
- Diversity transceivers allow maximum operational range
- Variable power output
- Unique multi-path, smart cluster technology support
- Automatic selection from 32 radio channels for reliable communication
- 868MHz harmonised frequency support
- ETSI 300-220 approved
- EN54-18, 25 complaint and CPR certified

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Technical specifications

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Status indication	16 character LCD display
Wireless frequency	868 MHz
Compatibility	All ZP addressable systems

Electrical

Operating voltage	18 to 22 VDC
Current consumption	47 mA + 10 mA per loop (max.) 40 mA + 7 mA per loop (typical)

Physical

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

Environmental

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

Regulatory

Certification	EN54-17, EN54-18, EN54-25

Output transmitter power

	Variable 0-14 dBm

Compatible products

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

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