ZPW766R

Wall mount sounder/VAD (red body, red flash)

General

The ZPW766R is a ZP7 series, Ziton protocol addressable RED sounder with a built in visual alarm device (VAD), the latter approved for wall mount applications. The VAD features a clear lens with red LED element. The ZPW766 incorporates a switch setting allowing it to be assigned a unique address on a Ziton fire panel loop.

With its durable design, high sound output and VAD designed for installation up to a height of 2.4 m, the ZPW766 ensures reliability and is suitable for a variety of indoor open areas where there is higher than normal background noise, whilst the unique lens design of the VAD distributes light evenly over the selected surface area.

Sounder & VAD Combinations

Disability legislation increasingly requires visual alarm signals to be used to ensure equal response from people with hearing impairment. The ZPW766 is perfectly suited for this application, providing synchronised audible and visual warnings from a single, loop wired unit. It minimises the number of installation points required in a building, significantly lowering the investment value of equipment and loop wiring costs. Installation time costs are further reduced as the device connects directly into a first fix base.

Current Consumption & System Loads

High efficiency acoustic design and a low current VAD enables multiple ZPW766 devices to be connected to a fire panel loop. Depending on system requirements the ZPW766 may be set to use less power, both in sound as well as VAD output. When coverage areas are small (less than 7.5 m radius), reducing the required range minimises the system current load. The flash frequency may also be set to 0.5 Hz (1 flash every 2 seconds) instead of 1 Hz (1 flash every second) in instances where consumption needs to be further reduced. In systems where loop lengths or current requirements are excessive, the ZPW766 may be powered from an external, EN54:4 approved power supply that will automatically be supervised by the ZPW766.

Sound Options

Continuous, intermittent and two-tone audible outputs are available from which any combination can be chosen to provide alert and evacuate, two stage alarms. All sound types comply with BS5839 Part 1 recommendations. The ZPW766 produces a sound output of up to 97 dBA, and may be adjusted in 4 steps down to 88 dBA in instances where lower outputs are required.

Details

- Compatible with Ziton addressable fire panels
- Connection layout with easy wiring and connection on installation
- Powered directly from the ZP loop for small installations, or externally when many units are required
- Fully addressable
- LED technology for long service life and low current consumption, maximising the number of devices on a loop
- Unique optics for light management with a lens design that optimises light dispersal, minimising power wastage
- Up to 7.5m coverage diameter, reducing the number of devices required to cover an area
- Coverage switch feature - for smaller areas switch down from 7.5 m to 2.5 m, reducing power consumption and saving up to 50%
- Flash rate switch feature, reducing the power consumption by up to 50%
- Soft start up for reduced current peak at start up, reducing circuit loading
- Locking base to prevent easy removal of device
- 8 Selectable tones with 4 selectable output levels
- EN54-3 and EN54-23 approved and CPR certified

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Technical specifications

Electrical

Operating voltage	15.5 to 20.5 V (loop powered, pulsed) 18 - 28VDC (externally powered)

Sounder

Output level (selectable)	88 to 97 dBA
Tone options	8

VID

Colour	Red LED
Flash frequency	0.5 or 1 Hz 30 or 60 flashes/min

Physical

Physical dimensions	103 x 146 x 85 mm
Net weight	300 g
Colour	Red / clear lens
Mounting type	Wall mount
Material	ABS FR / (Lens - Polycarbonate)

Environmental

Operating temperature	-10 to +55°C
Storage temperature	-25 to +70°C
Relative humidity	95% max. noncondensing
Environment	Indoor
IP rating	IP21C
Application	Type A

Regulatory

Certification	EN54-23, EN54-3

Current consumption (max)- From the loop

Loop powered - Quiescent - Active (LP / HP)	1Hz 750µA 38 / 74mA
Loop powered - Quiescent - Active (LP / HP)	0.5 Hz 750µA 26 / 42mA
Externally powered- Quiescent- Active (LP / HP)	600µA, 6 mA

Current consumption (max)- From AUX PSU

Flash frequency - Quiescent - Active (LP / HP)	1Hz 300µA 23 / 43mA
Flash frequency - Quiescent - Active (LP / HP)	0.5 Hz 300µA 15 / 27mA

Devices per loop (max)*

	<25

Wiring

	2 core loop

Monitoring

	Open/short circuit, removal, device type, external power, sound output

Addressing method

	7 way CIT (1of 127 addresses)

Certification

EN54:3	Yes
EN54:23	W-2.4-7.5

*

1km loop of 1.5mm² cable and depening on loop configuration, device setting and power selection

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