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FIRE SYSTEMS LIMITED

Odyssey Open Area Alarm Devices (200-103, 200-104, 200-105)

The Odyssey Open-Area Alarm Devices are loop-powered, wall mounted devices designed for use in open areas and can be connected to an Odyssey system.

The range includes sounders, Visual indicators and Sounder Visual indicators all designed to fit a common mounting base.

- Three tones on standard devices; Apollo, Slow-whoop and DIN all of which comply with EN 54-3
- Two volume settings 92 dB (A) and 100 dB (A)
- Synchronisation of tones and flashes
- Individual and group addressing
- EN54 versions available with built-in isolator
- Wire-to base for simple interchange of devices
- Device locking facility

KEY FEATURES

Features

A nominal sound output of 100 dB (A) is achieved at a current consumption of 5 mA in the case of the sounder and 8 mA for the sounder Visual indicator. Many control panels will be able to drive up to 20 sounders and up to 15 sounder Visual indicators per loop on average. However, the maximum number of devices that may be connected to a particular loop should be determined by a loop loading calculation using the Odyssey Loop Calculator.

Since the Open-Area Alarm Devices are intended for use in open areas it is possible for more than one device to be audible at any given point in a building For this reason the operation of all may be synchronised by the control panel.

The devices can be assigned either group or individual group addresses so that the functional options of the sounder are identical with those of the Sounder Control Unit.

Electrical operation

The Open-Area Alarm Devices are powered directly from the loop and need no external power supply. They operate at 17 V - 28 V dc and are polarity sensitive.

Tone frequency and volume control

The Open-Area Alarm Devices have three selectable tones and flashes, either Apollo, Slow-whoop or DIN.

The volume control can be used to adjust the sound from 100 dB (A) to 92 dB (A) if required.

The Apollo tone version produces a pulsed alert tone of 984 Hz, one second off and one second on, and a continuous evacuation tone of 644 Hz for 0.5 seconds followed by 984 Hz for 0.5 seconds.

Synchronisation

The sounder also offers synchronisation of continuous and pulsed tones. This ensures the integrity of alert-signals - tones from different sounders do not merge into one signal that could be mistaken for an ‘evacuate’ tone.

Addressing

The Open-Area Alarm Devices respond to their own individual addresses set with a DIL switch.

They can also respond to a ‘Group Address’ which enables multiple sounders to be controlled simultaneously. A group address may be any spare address between 112 and 126 and is selected by means of a four segment DIL switch. A device under group address control must have an individual address between one and 111 otherwise a fault value of four is transmitted. Devices not using the group address facility may be addressed at any address (1 - 126).

Protocol compatibility

The features of the Open-Area Alarm Devices are available only when the sounder is connected to a control panel with the appropriate software.

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EMC Directive 2014/30/EU

The Open Area Alarm Devices comply with the essential requirements of the EMC Directive 2014/30/EU, provided that they are used as described in this datasheet. A copy of the Declaration of Conformity is available on request.

Conformity of the Open Area Alarm Devices with the EMC Directive, does not confer compliance with the directive on any apparatus or systems connected to them.

Construction Products Regulation 305/2011/EU

The Open Area Alarm Devices comply with the essential requirements of the Construction Products Regulation 305/2011/EU. A copy of the Declaration of Performance is available on request.

TECHNICAL SPECIFICATION

Supply voltage (Vmin–Vmax)	17-28V DC
Maximum Loop Current Consumption	24V DC
Quiescent	333 µA
Switch-on surge	1.2 mA for <1 second
Operated sounder	5 mA
Operated sounder Visual indicator	8 mA
Operated Visual indicator	3.1 mA
Sound output - maximum	100 dB (A)
Operating temperature	-10°C to +55°C
Humidity (no condensation)	0-95% RH
Designed to IP Rating	IP65
Standards and approvals	CPR, LPCB, VdS, VNIIPO, CNBOP, CCMG, Kazaksthan
Dimensions	104 mm diameter x 97.5 mm
Weight Sounder Sounder Visual indicator Visual indicator	 225 g 260 g 205 g
Materials	Body - red polycarbonate. Diffuser- translucent polycarbonate
Notes: 1. All dB (A) figures are to within ± 3 dB (A).	

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