Zerio Plus

Zerio Plus Intelligent Wired Antenna

EDA-Z6010

Extends the Radio Range of a System

Up to 7 Wired Intelligent Antennas per System

Compatible with full range of Zerio Plus Panels

Simple to Set-up

Monitored Cable

Up to 4 units can be wired in parallel

EN54 Compliant

DESCRIPTION

For larger systems where the radio range of the control panel is not sufficient, it can be increased by adding wired antennas. The antenna is connected using a four core twisted pair cable to the radio control or radio booster panel. Multiple units can be wired in parallel from a single panel. The wired antenna acts as a radio booster in terms of transmitting / receiving signals to/from devices, but communicates with the control panel via the cable.

The EDA-Z6010 is powered through the cable so no backup battery is required. Configuration could not be simpler as the wired antennas are added via the panel menus.

There is sufficient space inside the unit to allow easy cable termination using screw terminals. When connecting multiple units, terminals for RS485 in and RS485 out, are provided.

The SMA connector on the unit allows easy fitting of the supplied stub antenna which is locked in place by the enclosure or a weatherproof dipole antenna can be fitted.

Indicators on the unit provide information for the supply, fault and status.

TECHNICAL INFORMATION

Indication for Supply, Fault and Status
Power supplied from host panel
Uses RS485 Data connection
Compact enclosure permitting siting in restricted spaces
Complies with all applicable requirements of BS5839 and EN54

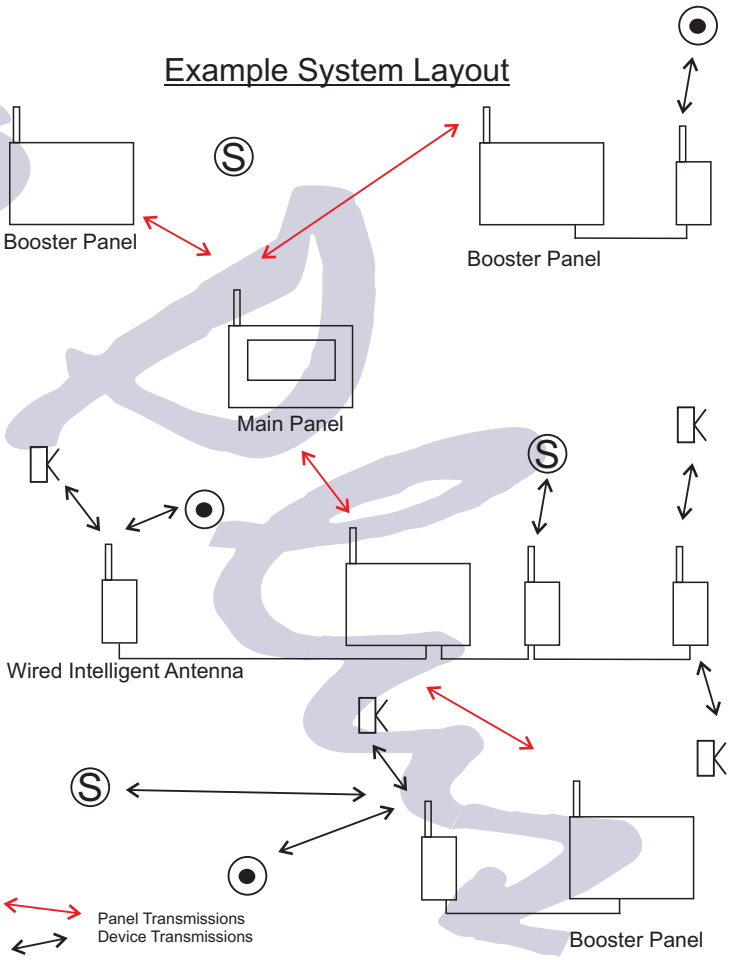
NOTES

Only wired antennas connected to the main panel can be used for panel to panel communications. Wired antennas connected to booster panels should only be used for communicating with devices.

In order to maintain a 72 hour battery standby time, it is advised that no more than 2 wired antennas be connected to a single panel. More antennas can be added, though standby time will be reduced.

Careful consideration should be given when designing a system with multiple wired antennas. In the event of a cable being severed, the system must not lose communication with more than a single zone of detection.

Example System Layout



ORDER CODES

EDA-Z6010	Wired Transceiver

REF:Z6010-Issue2.CDR October 2015

Electro Detectors

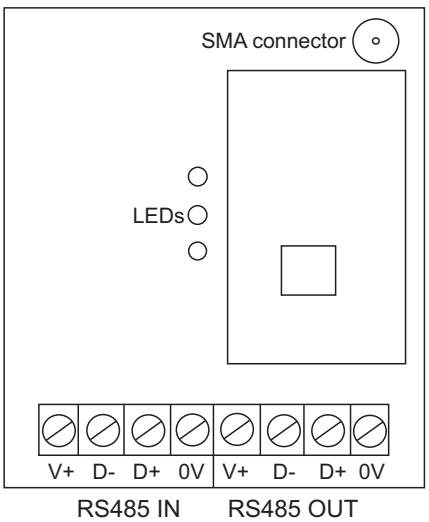
www.electrodetectors.co.uk

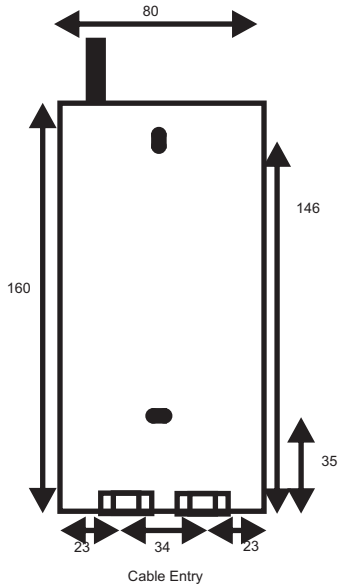
Electro House, Edinburgh Way,
Harlow, Essex, CM20 2EG, UK
Tel:01279 635668 Fax:01279 450185
Email:eda@electrodetectors.co.uk

SPECIFICATION

Max no of Wired Intelligent Antennas	
for System	7 (in certain setups this can be increased - contact EDA technical for more information)
per Control / Booster panel	4
Dimensions (mm) W x H x D	80 x 160 x 40mm (not including antenna)
Total height with antenna fitted	300mm
Weight	250g
Indicators	
Supply	Green LED to indicate mains present
Fault	Yellow LED to indicate fault on unit
Status	Yellow LED to indicate if the antenna is logged to the system
	Led operation may vary in engineers test modes for diagnostic reporting
Supply:	12-15V from control panel
	12mA
Operating Frequency	868MHz
Modulation	NBFM
Output Power (ERP)	10mW
Operational Temperature	0°C to +60°C
Applicable Standards and Approvals:	
European Fire Alarm	EN54 Part 25
British Standards	BS 5839 Part 1:2008
R&TTE	EN300 220
EMC Standards	EN301 489-3
	EN50130-4
	EN60950:2001
Recommended Cable	Draka Firetuf FT Data 4 core (2 twisted pairs) *For cable runs of < 20m standard 4 core cable is adequate* *Cat5/6 can be used if there is no requirement for fire proof cable*
End of line/ balancing resistor	100Ω (fitted across the D- and D+ terminals of the unused RS485 terminal)

Connections





Mounting Points and Dimensions in mm *(front view)*

Note:
Do not position antenna close to metal, electrical or solid objects. Leave 200mm above unit for antenna.

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