

- EN54 Part 7 and 25 approved
- Fully Addressable
- Selectable Sensitivity
- Up to 7 Year Battery Life
- Small Attractive Compact Design
- Pre-Alarm Warning
- Head Dirty Warning
- Compatible with Zerio Plus Panels



#### DESCRIPTION

The Zerio Plus radio optical smoke detector from Electro-Detectors represents a new benchmark in terms of what the marketplace can expect from a radio smoke detector. The detector is the latest development from a company which has over 30 years of designing and manufacturing fire alarm systems.

Based on the highly successful Millennium and Zerio ranges, the detector is housed in the original attractive, low profile, moulding. The addressable detector contains a powerful processor, utilising surface mount technology to achieve the ultimate in performance and reliability.

Long operational life, high sensitivity and stable operation has been successfully achieved by using sophisticated protocols and the most technologically advanced components.

Fully configurable, by radio waves, the Zerio Plus detector features programmable sensitivity. A unique serial number and the length of time in service is stored in its internal memory. All data is retained in this non-volatile memory which is not corrupted or erased even should power be removed. A battery life of up to 7 years and sensor re-calibration minimise detector maintenance but sophisticated self testing ensure confidence in detector operation.

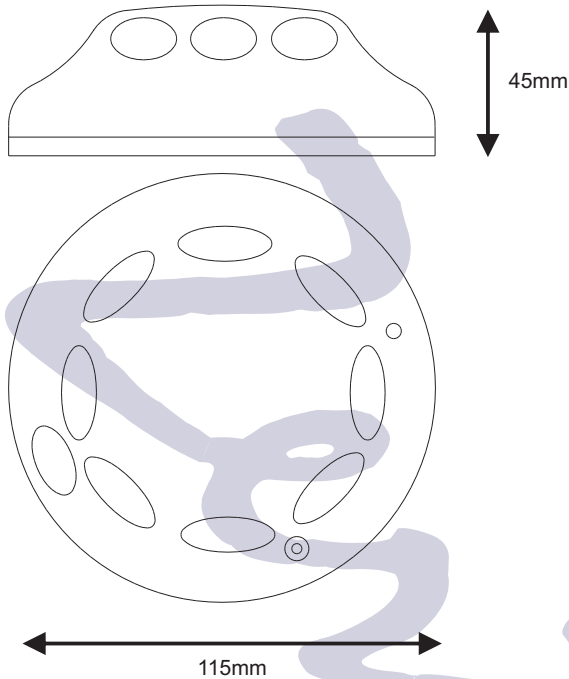
The Zerio Plus smoke detector is fully compliant with the relevant sections of BS5839 and EN54 including Part 25. The detector is supplied complete with its base and battery and just requires two screws to mount the unit on the ceiling.

#### SPECIFICATION

|                   |  |
|-------------------|--|
| Power source      | Dual lithium cells   |
| Battery life      | Up to 7 years  |
| Battery Pack      | 1 x EDA-Q690   |
| Detector type     | Optical  |
| Alarm Level       | High: 0.08dB/m (1.8%)*<br>Medium: 0.12dB/m (2.7%)<br>Low: 0.20dB/m (4.4%)* |
|                   | * Not 3rd part approved to EN54 Part 7                                     |
| Temperature range | 0C to +60C   |
| Humidity          | 0 to 95% (no condensation)   |
| IP Rating         | IP21C (indoor use only)  |
| Construction      |  |
| - Insect Screen   | Stainless Steel Foil   |
| - Casing          | Injection Moulded U.V. Flame Retardant Stabilised ABS                      |
|                   | Plastic  |
| - Electronics     | Surface Mount Technology   |
| Options           | Lockable Head  |

#### ORDER CODES

|           |                                   |
|-----------|-----------------------------------|
| EDA-R5000 | Radio Optical Smoke Detector      |
| EDA-Q690  | Spare Battery Pack (1 required)   |
| EDA-Q580  | Device Locking Screw (pack of 10) |



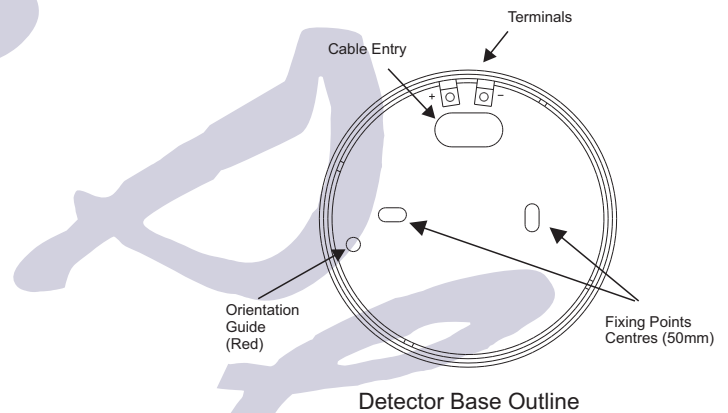
## TECHNICAL INFORMATION


Selectable sensitivity set by control panel  
 Adjustable alarm verification time interval  
 Powered by 2 independent AA Lithium Thynol Chloride cells  
 Max Voltage 3.7V DC  
 Min Voltage 3.0V DC  
 Max Current in Alarm 10mA  
 Average Current <10uA  
 Estimated battery life of up to 7 years

Surface mount technology giving maximum reliability  
 Transmitter frequency 868 MHz  
 Transmission type Narrow Band FM  
 Channels 13 Available  
 Electronic serial number  
 65000 system numbers  
 Short transmission time  
 Complex error checking  
 Internal monitoring and fault diagnostic reporting  
 Fault and alarm count  
 Narrow gauge mesh to prevent ingress of foreign bodies  
 Security locking screw (supplied separately)

## GENERAL INFORMATION

|                             |  |
|-----------------------------|--|
| Weight (Including Base)     | 200g (approx.)                                       |
| Dimensions (Including Base) |  |
| Height                      | 45mm   |
| Diameter                    | 115mm  |
| Indications                 | High intensity clear LED                             |
| Alarm                       | Red Solid  |
| Fault                       | Red Flashing   |
| Log-on Mode                 | Green Solid  |
| Audible Warning             | Sounds in alarm, device re-calibration and test mode |
| Fixing Holes                | 2 x 4mm ( No. 6 screws )<br>50mm spacing             |
| Finish                      | White Polished                                       |





**0359**

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EN54-7:2000+A1:2002+A2:2006  
 EN54-25:2008

0359-CPR-00229 (2014)  
 DOP\_EDA\_R5000

**EDA-R5000**  
 Radio smoke detector for use in fire detection and fire alarm systems for buildings.

In the pursuance of a policy of continued product improvement Electro-Detectors Ltd. reserves the right to change the design and specification without prior notice. The quoted battery life is a theoretical calculation based on device performance under normal operating conditions in conjunction with the specification provided by the battery manufacturer. The figures provided are intended as a guide and therefore cannot be assumed to be a guarantee of the actual life achieved. All details were correct at time of printing.

REF:EDA\_R5000\_datasheet\_V104.CDR Jan 2014

**Electro Detectors**

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