

apollo

SOTERIA® DIMENSION

Backbox Installation Guide

Part No	Product Name
FL5000-200APO	Soteria Dimension Backbox

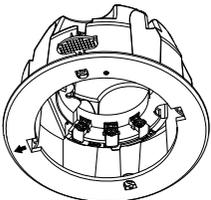
For all technical information please refer to the documents that follow, which are available from www.apollo-fire.co.uk:

PP2550 - Soteria Dimension Optical Detector - Datasheet

PP2090 - Short-Circuit Isolator - Datasheet

What's in the Box:

Equipment Required:



1 x FL5000-200
Soteria Dimension Backbox



1 x
Wire Cutters



1 x
Cutting Knife



1 x
Drill + Drillbit



1 x
Cross-head
Screwdriver (PZ2)

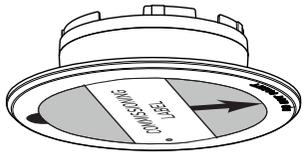


2 x
Cable
Gland



1 x
114 mm Hole
Saw

Compatible Detectors:



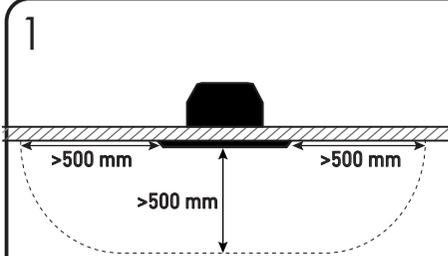
1 x FL5100-600
Soteria Dimension
Optical Detector



1 x FL6100-600
Soteria Dimension Specialist
Optical Detector

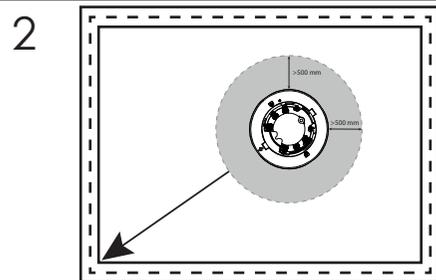
Correct Siting Requirements:

1



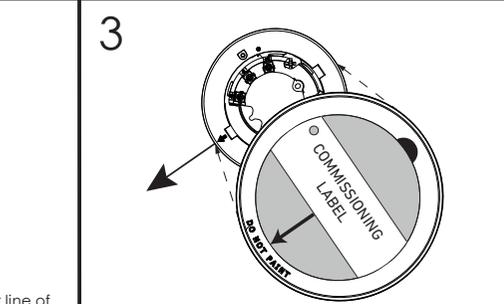
Ensure that there are no objects within 500mm of this clearance (e.g. tops of doors, aircon vents, light fittings etc)

2

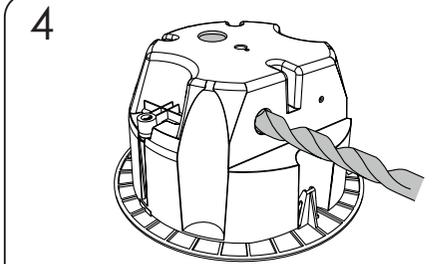


Position backbox arrow towards the longest clear line of sight which is free from any ceiling obstructions

3

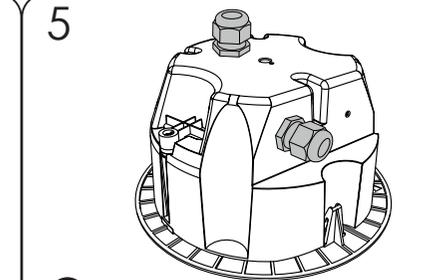


4



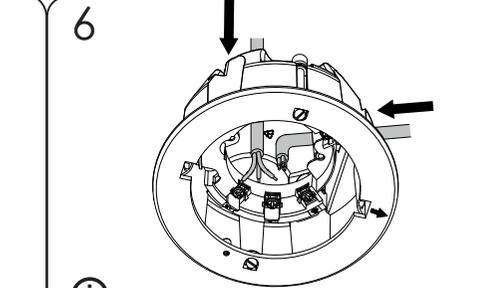
Take care not to damage the connector ring or rest of the backbox when making holes

5



Example of top and side entry

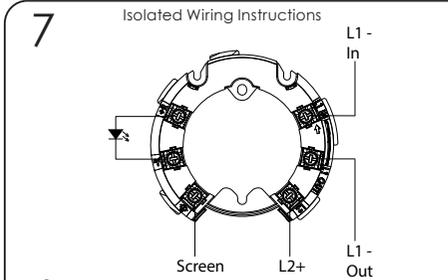
6



Example of top and side wiring entry

7

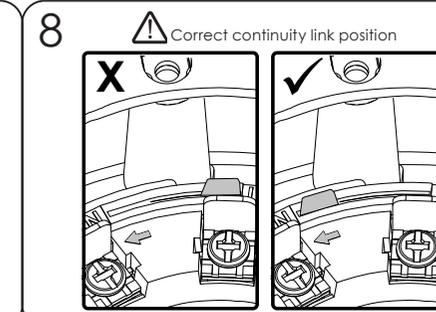
Isolated Wiring Instructions



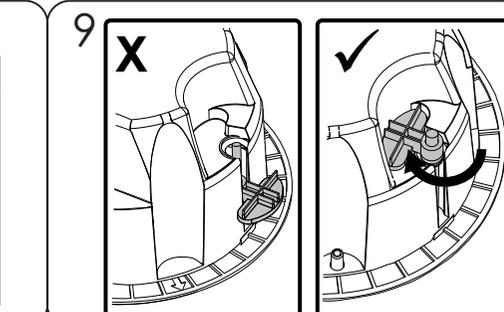
For non-isolated wiring, connect both L1- together in either In/Out terminals

8

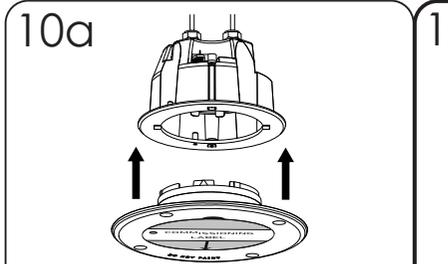
Correct continuity link position



9

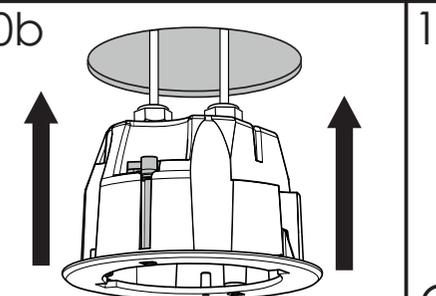


10a

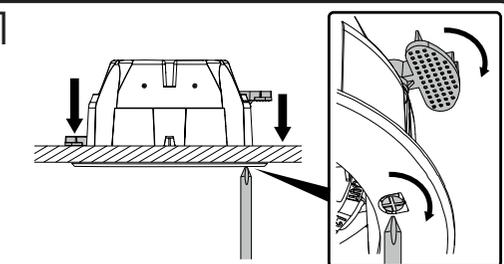


This step is for the Soteria Dimension Specialist Optical Detector only

10b



11



Screw down for the Soteria Dimension Optical Detector only, tabs are not needed for the Specialist variant

Detector Location

Correct alignment of the detector can be done by positioning the arrow marked on the backbox with the longest clear line of sight which is free from any ceiling mounted obstructions. The commissioning label present on the faceplate of the detector should line up with the backbox arrow when fitted.

Refer to steps 1 - 3 for best practice.

Necessary Requirements:

- Always maintain the minimum clearance of 500mm in all directions (Step 1)
- Position backbox arrow towards the longest clear line of sight which is free from any ceiling obstructions (Step 2)
- Only remove commissioning label, on commissioning the system (Step 3)
- For internal use only

The commissioning label is used to aid installation, to shield from dust and to protect the lenses from fingerprints. It must only be removed upon commissioning of the system, as leaving the label on will report a fault to the panel.

Commissioning

The installation must conform to BS5839-1 (or applicable local codes). Because of the way Soteria Dimension works, it is imperative that the windows are kept free from damage, scratches, dirt and fingerprints. The commissioning label present on the faceplate of the detector must not be removed before any installation work is carried out. Before commissioning please remove the label and ensure the windows are free from fingerprints, residue and dirt.

Maintenance & Cleaning

Maintenance should be performed in accordance with applicable local codes. Clean the detector with a dry, lint-free cloth. Ensure the fire system is suitably isolated before cleaning detectors.

Testing

The preferred method of testing the detector is with a Solo 365 using a special Solo 367 adapter, the process is described in the test equipment's installation guide. We recommend cleaning detectors after testing using a dry lint-free cloth. For more information visit www.apollo-fire.co.uk

The new Fastest® mode (**CoreProtocol® only**) facility on Soteria Dimension Optical Detector, which can be enabled on a compatible fire control panel, facilitates quicker testing of detectors with appropriate test equipment. The Fastest disables both a portion of the signal processing algorithm and proximity sensing to allow for a faster detector response, whilst ensuring that the detectors absolute sensitivity remains identical to that of mode 3. This helps to reduce commissioning time.

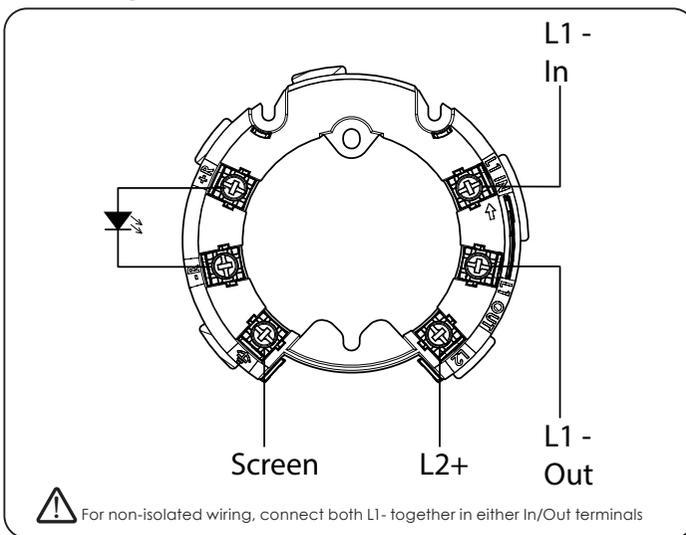
Troubleshooting

Before investigating individual units for faults, it is important to check that the system wiring is fault free. Earth faults on data loops may cause communication errors. Many fault conditions are the result of simple wiring errors. Check all connections to the unit.

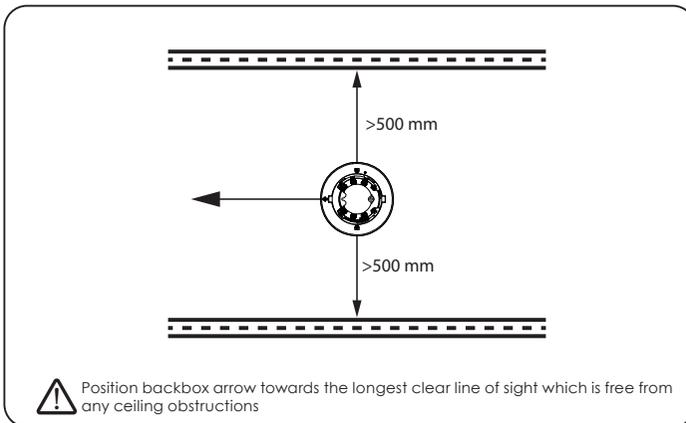
Problem	Possible Cause
No response or missing address	Incorrect address setting Incorrect loop wiring Check detector is fully engaged in backbox
Fault condition reported	Object blocking windows Proximity fault Commissioning label left on
Drift warning or fault	Contaminated windows Incorrect detector orientation
Analogue value unstable	Dual address Loop data fault, data corruption
Constant alarm or pre-alarm	Contamination build-up on windows Obscuration of windows
Isolator LED on	Short-circuit on loop wiring Wiring reverse polarity Too many devices between isolators

NOTE: IF THE CAUSE OF A FAULT IS NOT OBVIOUS OR EASY TO RECTIFY, PLEASE IMMEDIATELY CONTACT YOUR FIRE MAINTENANCE SERVICE PROVIDER OR THE APOLLO TECHNICAL SUPPORT TEAM.

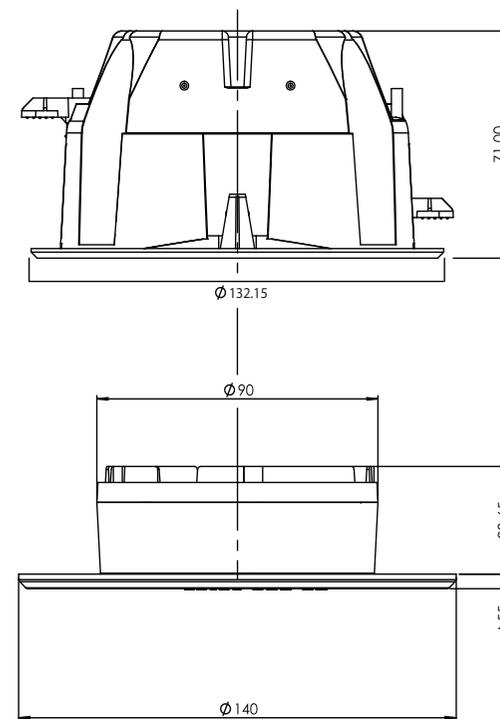
Isolated Wiring Instructions



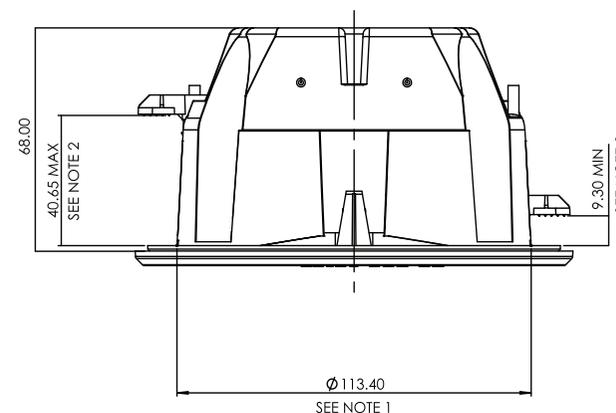
Alignment in Corridor



Backbox Dimensions



EXPLODED VIEW OF DETECTOR FITTED & BACKBOX



DETECTOR FITTED TO BACKBOX