

Soteria Dimension Detectors

Pre-Survey Guidelines



CAUTION: Product suitability

Supply and installation of Soteria Dimension detectors is subject to a satisfactory site survey. After reading these guidelines, if you have any doubts as to the suitability of installing Soteria Dimension detectors in a particular situation please contact the Apollo Technical Sales* department.

Introduction

Architects and designers have long expressed a desire for smoke detectors that fit flush to the ceiling. To create such a detector means removing the traditional physical smoke chamber which protrudes into the room.

Apollo has developed a flush-fitting, chamberless optical smoke detector using a patented optical design with software filtering to establish reliable operation. However, chamberless detector designs have some environmental and application limitations.

These pre-survey guidelines should be read and understood to help you decide if Soteria Dimension detectors are suitable for your intended application. This will then need to be confirmed by an on-site survey by Apollo.

Application

Whilst Soteria Dimension Detectors are suitable for most applications, they should **not** be used in the areas that follow:

- Environments where steam and/or condensation is present.
- Areas with dimensions less than the minimum clearance (see Figure 1).
- Areas with obstructions either static or transient within the required minimum clearance (see Figure 2).

To ensure that the detector operates correctly a **minimum** distance of three metres is required in front of the detector.

There must also be a minimum clearance of 500 mm all around the detector. (see Figure 2).

In addition to room dimensions, correct operation is also dependant on the points that follow:

- The product limitations of chamberless detectors are understood and a site survey is done before specifying Soteria Dimension detectors.
- That the protective label is applied to the faceplate before installation. After installation, remove the label and clean the windows using a soft lint-free cloth.

Note: Requirements in this guide are additional to any local applicable installation code of practice.

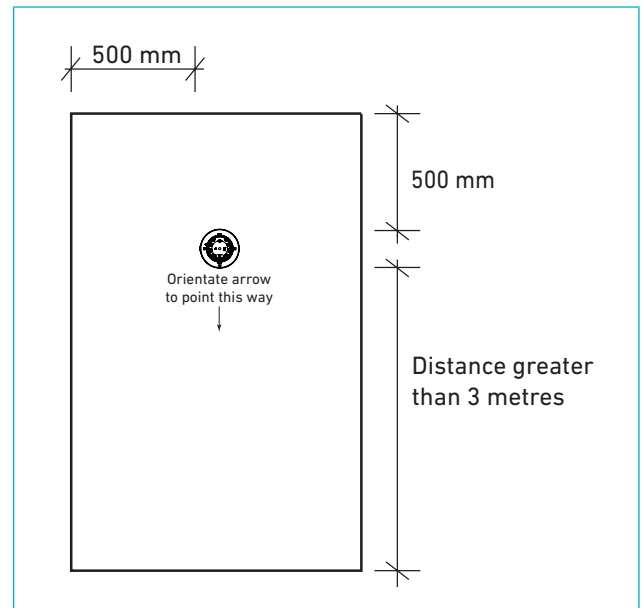


Figure 1: Minimum clearance

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Detector siting

Soteria Dimension detectors should be sited in accordance with BS 5839-1 (as amended) or applicable local regulations. In addition a minimum distance of 500 mm must be allowed between the outside edge of the detector faceplate and any light fittings. Also a minimum 500 mm clearance below the detector faceplate from any static or transient object must also be maintained (see Figure 2).

Detector orientation

Every Soteria Dimension detector has to be installed in a backbox, Part No. FL5000-200. It is important that the backbox is installed in the correct orientation.

The arrow printed on the backbox (see Figure 3) **must always** face in the direction of the longest dimension of the room i.e. the distance that is greater than three metres (see Figure 1).

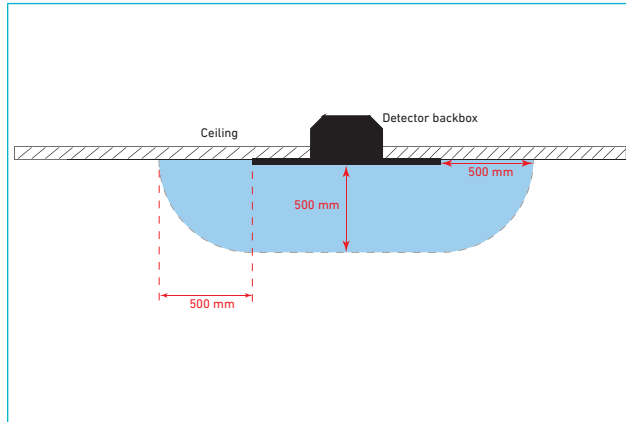


Figure 2: Overall minimum clearances

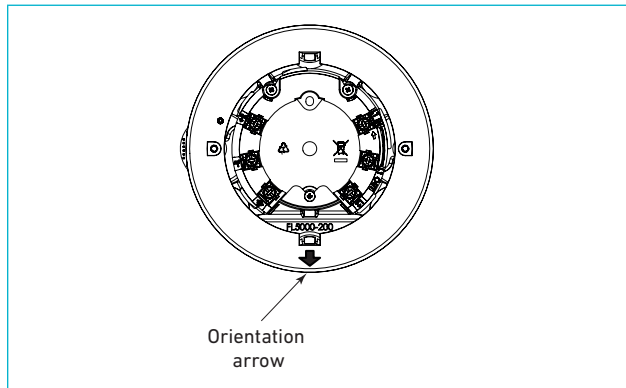


Figure 3: Orientation arrow