



XPander Smoke and Heat Detectors Installation Guide

General

Do not install any XPander equipment until a full site survey has been completed using the XPander site survey tool. A maximum of 5 interfaces are permitted for each site. For sites that require more than 5 interfaces please contact Apollo. All installation engineers must have had certified XPander training.

The XPander smoke and heat detector variants are available under the following part numbers:

Complete Units

Part Number	Description
XPA-CB-12034-APO	XPander Optical detector with base
XPA-CB-13032-APO	XPander Multisensor detector with base
XPA-CB-11170-APO	XPander Heat A1R detector with base
XPA-CB-11171-APO	XPander Heat CS detector with base

Spares

Part Number	Description
XPA-WB-10022-APO	XPander Mounting base only
XPA-OP-12034-APO	XPander Optical head only
XPA-OH-13023-APO	XPander Multisensor head only
XPA-HT-11170-APO	XPander Heat A1R head only
XPA-HT-11171-APO	XPander Heat CS head only

The installation must conform to BS5839-1:2013 (or applicable local codes). *All detectors are suitable for indoor use only.*

Installation

All detectors must be sited in accordance with the original approved design and site survey details. Where practical the detector's LED should face towards the room's entrance.

1. Twist the ceiling mounting plate anti-clockwise to remove it from the mounting base.
2. The ceiling mounting plate must be fitted using both mounting holes and **suitable fixings or fasteners** (see **Fig. 1**).

Note: Any screw heads must be flush or semi flush with the internal surface of the ceiling mount otherwise the battery PCB may be damaged.

3. Attach the mounting base to the ceiling mounting plate ensuring the tamper switch spring assembly makes contact. Locate the three lugs and twist clockwise.
4. Fit the detector to the mounting base.
5. Fit the power jumper shorting link and commission the unit according to the XPander commissioning guide PP2286.



Locking Mechanism

The detectors can be locked into the base by removing a tab as shown in Fig. 2. To unlock the detector, insert a 1.5mm hex driver or similar diameter tool into the small hole opposite the XPERT card and twist the detector anti-clockwise.

The XPander base module can be locked to the mounting plate by means of a grub screw. Access to which is through the base module cover label opposite the XPERT card

The address of the unit is set using the XPERT card, see table overleaf. Commission the detector according to the XPander commissioning guide PP2286.

Battery Type

Panasonic	Varta
6 x AA 1.5V Alkaline Panasonic Powerline (Size M, LR6)	6 x AA 1.5V Alkaline Varta Industrial (4006, LR6)

When replacing batteries, allow the device to power down for a period of two minutes before installing replacements.

Note: When replacement batteries are required all batteries must be replaced together.

Technical Data

Operating voltage 2.8-5VDC
 Operating temperature -10°C to +50°C

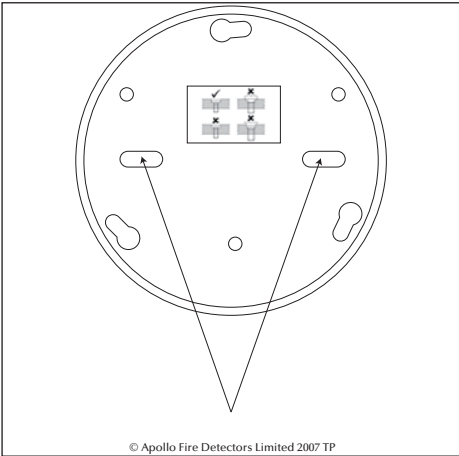


Fig 1 Mounting Details

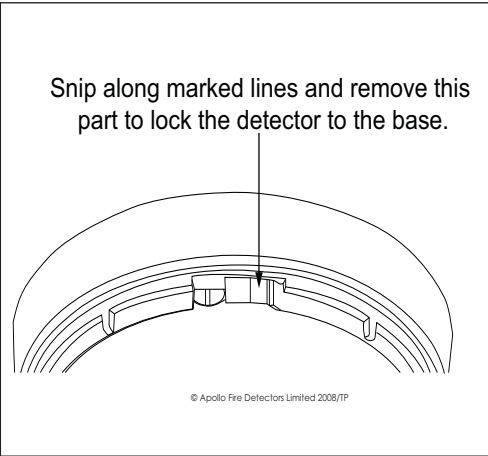
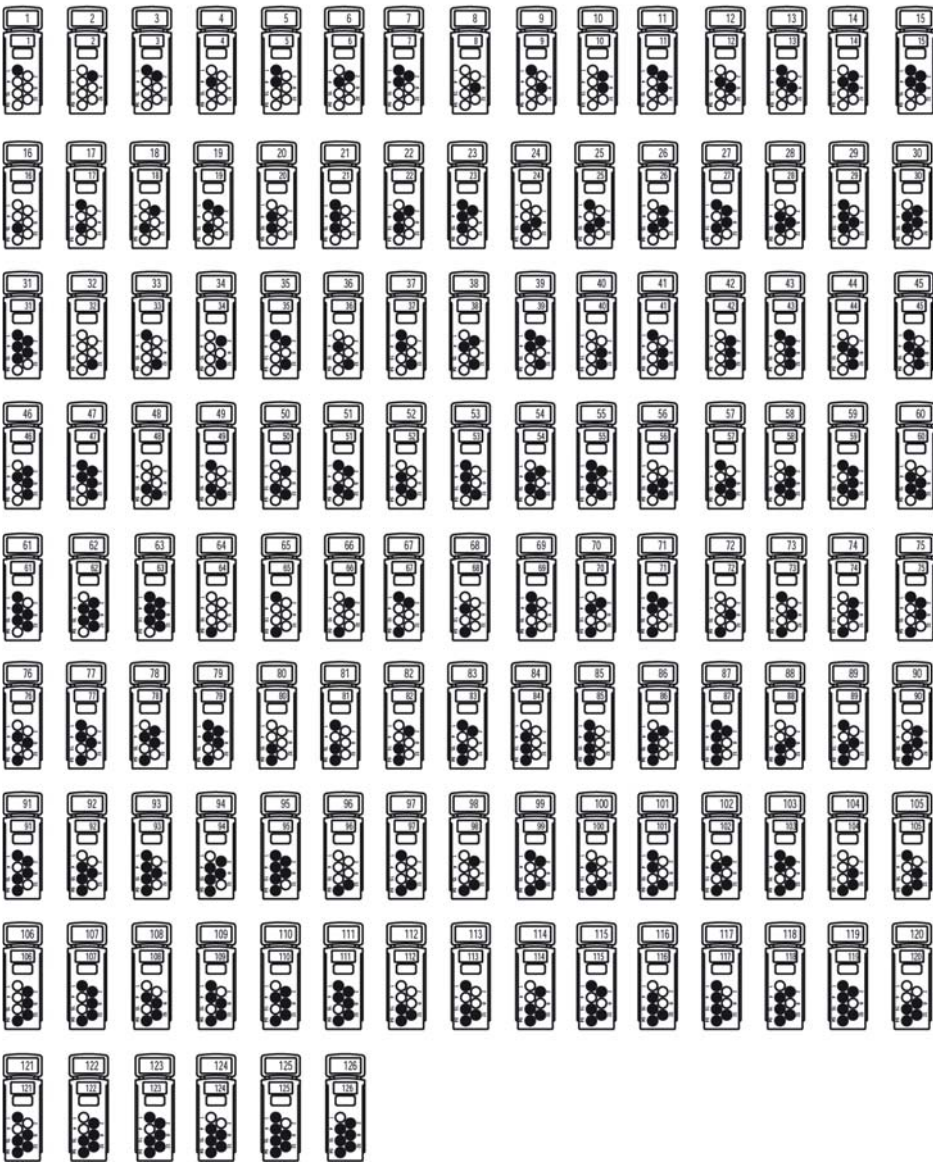


Fig 2. Locking Mechanism

XPERT Card Addressing

The XPander XPERT card is specifically designed for XPander products and has profiled address pips for ease of installation. The use of standard XPERT cards is not recommended. Select the desired address and remove the pips indicated in black. Remove pips with a small screwdriver.



XPERT Card Insertion and Removal

Removal requires access to the inner section of the base. Detach the detector from its base. Insert a flat-blade screwdriver just inside the rim of the base above the XPERT card and disengage the card retaining clip whilst pulling the XPERT card out.