



Heater Base Wiring Guide

General

The Heater Base, part no. ORB-HB-00020-APO, is designed to be used where environmental conditions could result in icing or condensation. The heater base increases the associated detector's temperature by approximately 10°C above ambient. The heater base can be used in conjunction with either a Waterproof Base Cover, part no. 45681-519, or a Deckhead Mounting Box, part no. 45681-217 to minimise moisture ingress.

Installation

For deckhead mounting box wiring, fit the heater base to the mounting box and install cables as shown in **Fig 2**.

1. For surface wiring activate locking mechanism if the detector is to be locked into the base. To do this, remove the small portion of plastic shown in **Fig 1** with side cutters or similar tool.
2. Remove surface mount break out points using side cutters or similar tool.
3. Fit heater base into waterproof base cover if used. Pierce cover to allow for cable entries and ensure they line up with the cut outs (step 2).
4. Mount base using the mounting screw holes provided.
5. **Fig 1** shows the wiring terminals. Terminal marked '4' on the base is provided for connecting the screen or functional earth.
6. Install all cables as shown in **Fig 2**. For power supply connections, terminal 2 is positive and terminal 3 is negative.
7. Apply a suitable sealant to the cable entries and fixing points if waterproof base cover has been used.
8. When all bases have been fitted, a voltage test for wiring continuity may be carried out. Detector head should **not** be fitted at this stage. *Please note this test is not suitable for base power supply cabling - ensure cables are not connected when completing the megger test.*

Unlocking the detector

To unlock the detector from the base, insert a 1.5mm hexagonal driver (part no 29600-095) into the small hole on the detector face and gently lever the driver outward whilst rotating the detector anti-clockwise.



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Technical Data (Heating Element)

Resistance	300Ω
Voltage	28V
Current	100mA
Power	2.7W

Note: It is recommended that the heater base supply be controlled by a thermostatic switch for environments that exceed 20°C.

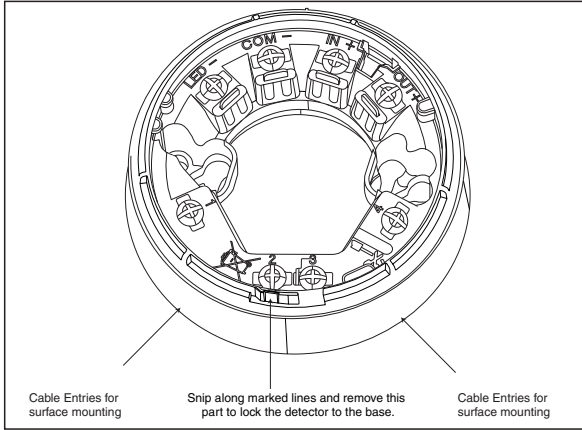


Fig 1 The Orbis base terminals

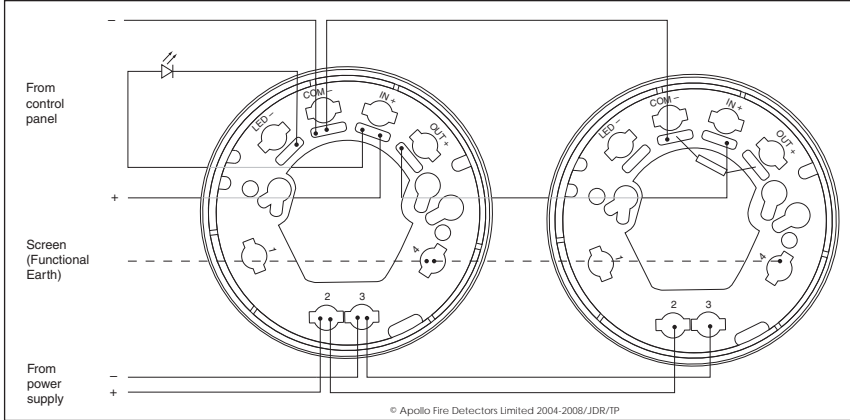


Fig 2 Wiring diagram

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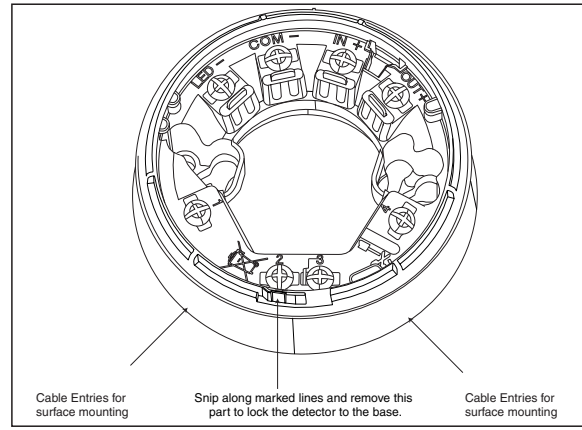


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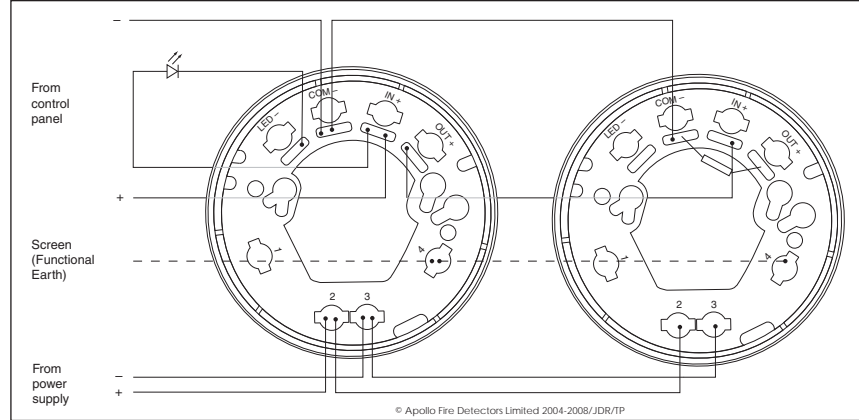


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