



## Intrinsically Safe Base Wiring Guide

1. Activate the 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. Partially screw two screws into the mounting box or soffit at the required centres. Place the corresponding slots of the base over the screws and slide the base home. Tighten up the screws.

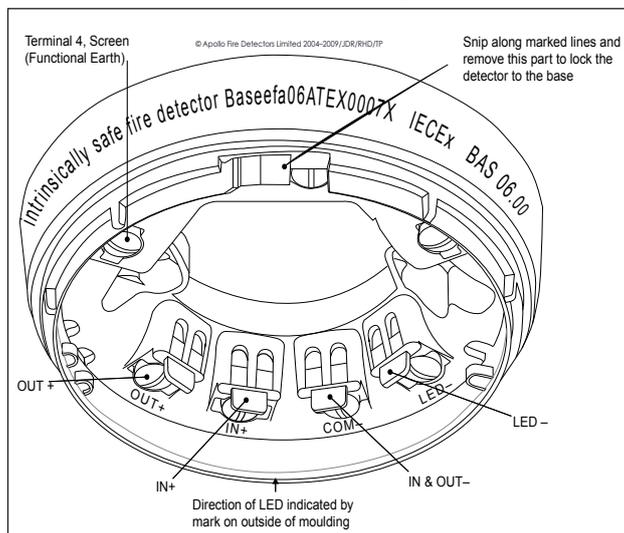


Fig 1 Orbis IS base terminals

3. Fig 1 shows the wiring terminals. The terminal marked '4' on the base is provided for connecting the screen or functional earth.

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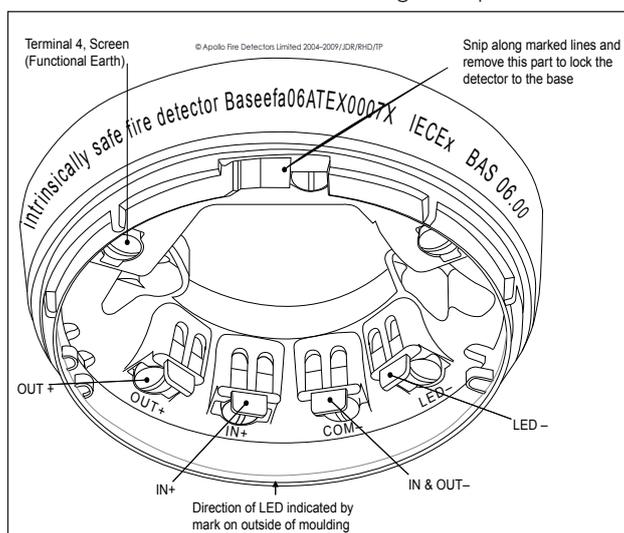


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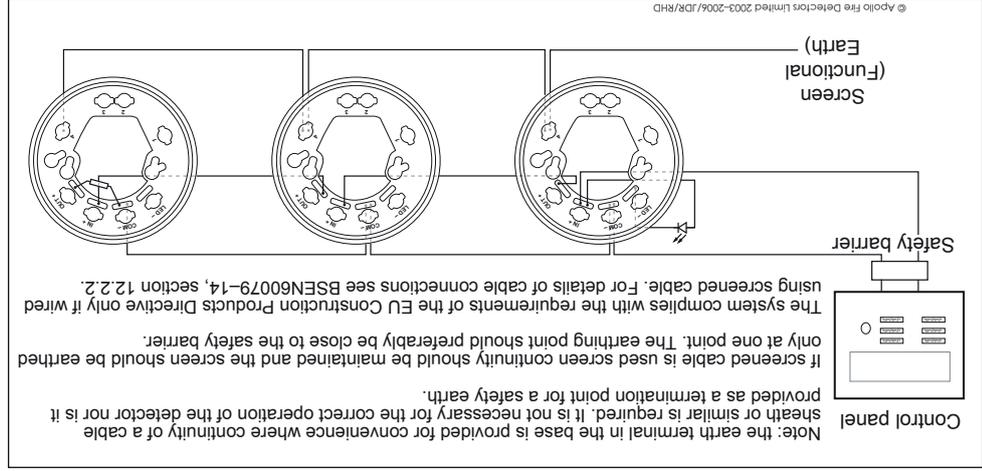
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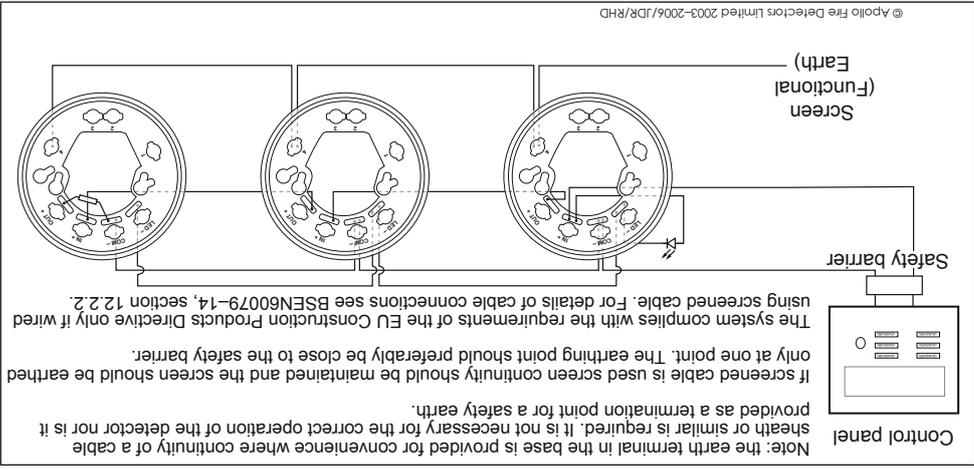
4. The outside of the base is marked with a moulded vertical line to indicate the position of the LED when the detector has been fitted. This facilitates detector orientation if required.
5. When all the bases have been fitted a voltage test for wiring continuity may be carried out. The base is fitted with a continuity link which automatically opens when a detector is fitted to the base for the first time.

**Fig 2 Wiring diagram for Orbis IS bases with one MiniDisc remote LED**



To unlock the detector from the base, insert a 1.5mm hexagonal driver (part no 29600-095) gently lever the driver outward whilst rotating the detector anti-clockwise.  
For technical data refer to Product Guide PP2250 available on request.

**Fig 3 Wiring diagram for Orbis IS bases with a common MiniDisc remote LED**

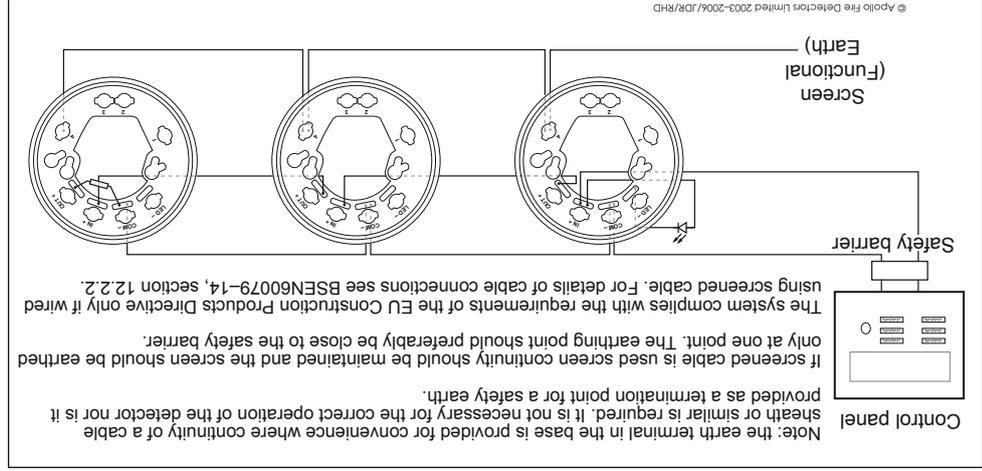


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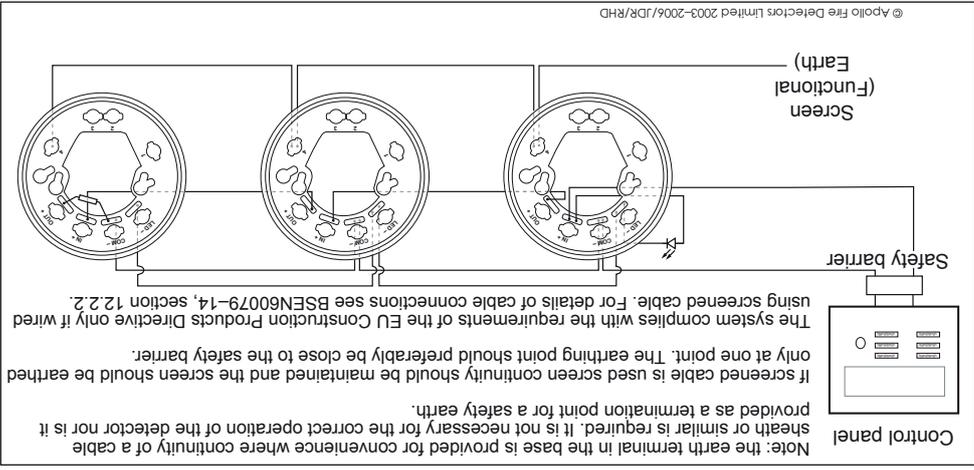


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If screened cable is used screen continuity should be maintained and the screen should be earthed only at one point. The earthing point should preferably be close to the safety barrier.  
The system complies with the requirements of the EU Construction Products Directive only if wired using screened cable. For details of cable connections see BSEN60079-14, section 12.2.2.