ORBIS TIMESAVER BASE®

INSTALLING ORBIS

Orbis has been designed to make installation fast and simple. Fig 4 shows the TimeSaver mounting base as it is seen from the installer's point of view.

The E-Z fit fixing holes are shaped to allow a simple three-step mounting procedure:

- Fit two screws to the mounting box or surface
- Place the Orbis base over the screws and slide home
- Tighten the screws

The base offers two fixing centres at 51 and 60mm.

A guide on the base interior indicates the length of cable to be stripped. Five terminals are provided for the cables, four being grouped together for ease of termination.

The terminals are:

- positive IN
- positive OUT
- negative IN and OUT (common terminal)
- remote LED negative connection
- functional earth (screen)

The terminal screws are captive screws and will not fall out of the terminals. The base is supplied with the screws unscrewed in order to avoid unnecessary work for the installer.

The end-of-line resistor or active device should be connected between the OUT+ and COM– terminals.

If it is required that all detectors be fitted with their LEDs facing the same direction the bases must be fitted to the ceiling observing the marking on the exterior which indicates the position of the LED.

The bases may be connected as shown in Fig 5 where remote LEDs, if required, are connected to the associated base.

Fig 6 shows how to connect one remote LED to more than one base so that an alarm in any of the detectors connected will switch the remote LED.

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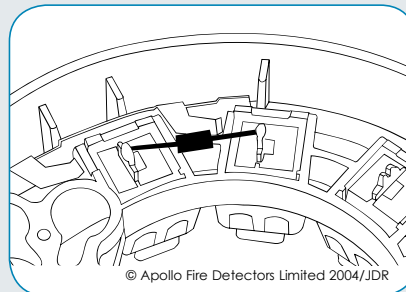
In many installations bases with diodes are specified in order that an active end-of-line device may be fitted. Diode bases are marked 'OD'. Loop continuity testing is facilitated as there is a continuity device in the base. The continuity device enables power to pass through every base in a loop to ensure that each is connected correctly.

Once a detector is fitted to the base the continuity device is automatically locked permanently open so that the power flows through the detectors.

FITTING ORBIS DETECTOR HEADS

When the bases have been installed and the system wiring tested, the detector circuits can be populated.

Two methods are suggested:

1. Apply power and fit the detectors one by one, starting at the base nearest the panel and working towards the end of the circuit. As each detector is powered up it will enter 'StartUp' and flash red (see next page for a full description of this feature). If the LED does not flash, check the wiring polarity on the base and ensure there is power across IN+ and COM–. If the LED is flashing yellow the detector is not operating correctly and may require maintenance or replacing (see DirtAlert and SensAlert® below and the section 'Maintenance and servicing' on page 15).

2. Fit all detectors to the circuit, apply power and check detectors by observing the LED status of each device. The StartUp feature lasts for 4 minutes so it may be necessary to reset or de-power the circuit to allow all detectors to be observed. The LED status is the same as method 1.

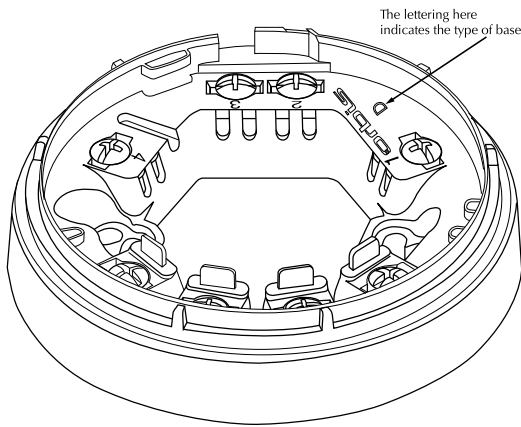| Product Description	Base Marking Code
Orbis TimeSaver Base	OB
Orbis TimeSaver LX Base	OL
Orbis TimeSaver Diode Base	OD
Orbis TimeSaver Relay Base	OR
Savwire Base	OS
TimeSaver Diode Base LX	DX
Orbis LX Base	XL
Orbis Timesaver Base - Deep	EB
Orbis Heater Base	HB

Table 2

Identifying Base Marking Codes

The lettering here indicates the type of base

Figure 4
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TimeSaverBase®

Terminal 4, Screen (Functional Earth)

Snip along marked lines and remove this part to lock the detector to the base

OUT +
LED —
IN +
IN & OUT —

Direction of LED indicated by mark on outside of moulding
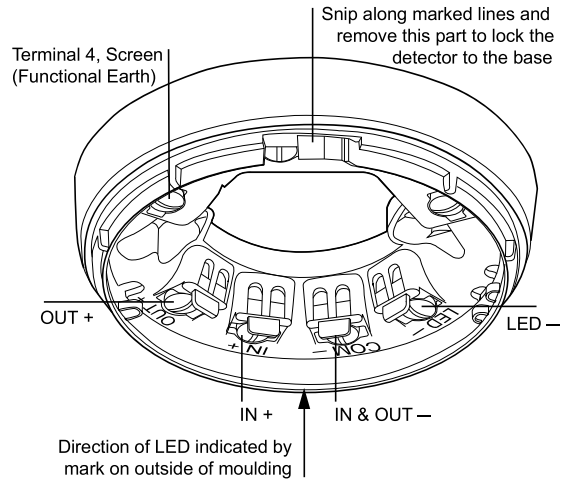
Figure 5
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Base wiring diagram

From control panel

Screen (Functional Earth)
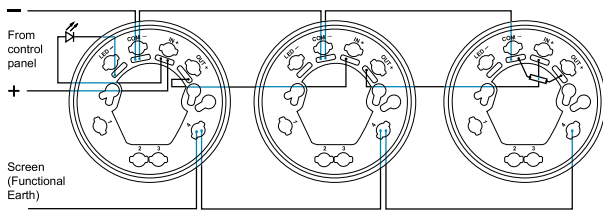
Figure 6
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3 bases wired with a common LED

From control panel
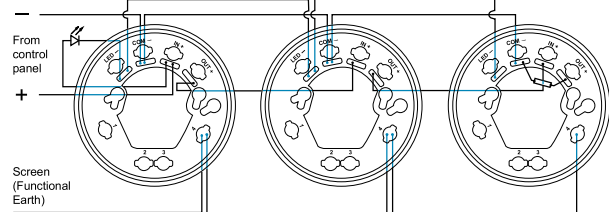
Screen (Functional Earth)

Figure 7
© Apollo Fire Detectors Limited 2004/JDR

Orbis features: LED status

Feature	Description of Feature	Red LED Status	Yellow LED Status
StartUp™	Confirms that the detectors are wired in the correct polarity	Flashes once per second	No Flash
FasTest®	Maintenance procedure, takes just 4 seconds to functionally test and confirm detectors are functioning correctly	Flashes once per second	No Flash
DirtAlert™	Shows that the drift compensation limit has been reached	No Flash	Flashes once per second in StartUp (Stops flashing when StartUp finishes)
SensAlert®	Indicates that the sensor is not operating correctly	No Flash	Flashes every 4 seconds (Flashes once per second in StartUp
Normal Operation	At the end of StartUp and FasTest (without flashing LED as standard)	No Flash	No Flash
Flashing LED Version	Detector's red LED flashes in normal operation (at the end of FasTest)	Flashes every 4 seconds	No Flash

Table 3

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