




Orbis IS Base®

installing orbis IS

Orbis IS has been designed to make installation fast and simple. Fig 4 shows the TimeSaver 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 IS base over the screws and slide home
- Tighten the screws

The base offers three fixing centres at 51, 60 and 72mm.

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 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.

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 Table 1 on page 14). 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 'Servicing' on page 18).
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.

orbis™

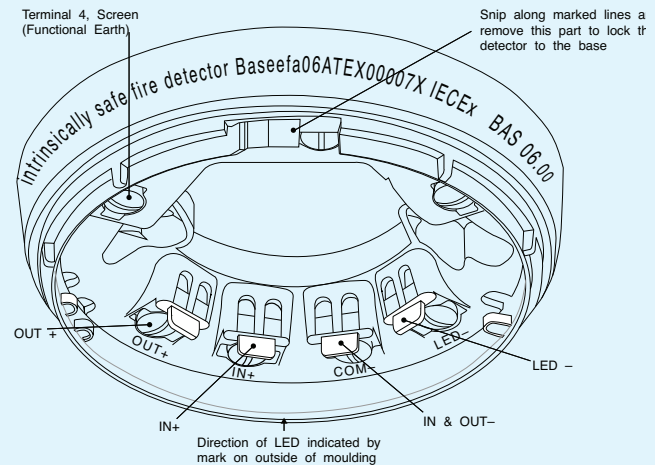


Fig.4 TimeSaver IS Base®

Note: the earth terminal in the base is provided for convenience where continuity of a cable sheath or similar is required. It is not necessary for the correct operation of the detector nor is it provided as a termination point for a safety earth.
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 CPD only if wired using screened cable. For details of cable connections see BSEN60079-14, section 12.2.2.

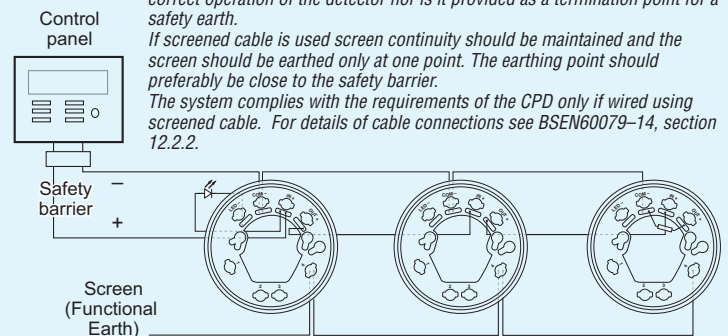


Fig.5 Base wiring diagram

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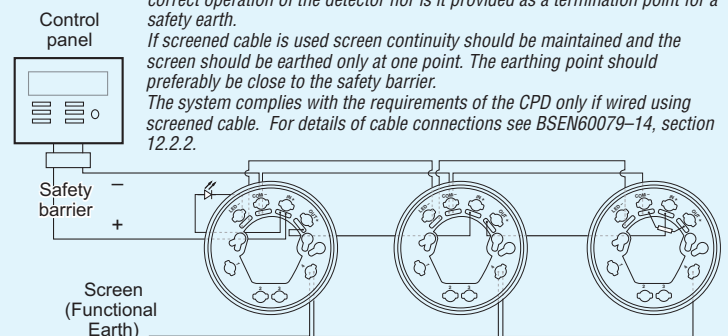


Fig.6 3 bases wired with a common LED