



INTELLI-SENSE

Addressable Device

INSTALLATION MANUAL



TI-002216

INTELLIGENT ANALOGUE (CLASS P) HEAT DETECTOR WITHOUT SHORT CIRCUIT ISOLATOR



GENERAL DESCRIPTION

This type of detector (figure 1) continuously samples the temperature variation in the protected area to provide the earliest warning of fire, offering, at the same time, a high level of false alarm rejection.

These detectors are designed for an open area protection and must only be connected to control panels that use the analogue-intelligent addressable communication protocol for monitoring and control, providing high rates of information exchange and fast and secure responses.

Note: Before installing this device please thoroughly read this leaflet and refer to the applicable European Standards and National Codes of Practice (e.g. BS5839-1:2002 for UK) for guidance on location, spacing and acceptable use. Also seek guidance from the compatible control panel instructions to ensure appropriate design criteria and configuration specifications are followed.

INSTALLATION

For the installation to the ceiling, the detector must be mounted only on the compatible adaptor bases listed in the "TECHNICAL SPECIFICATIONS" table. Refer to the specific base's literature for further details.

WIRING

After having installed the base to the ceiling, wiring has to be carried out in order to connect the base to the analogue loop and so, to the installation.

Analogue loop wires must be correctly connected to the base's terminals: check the performed wiring by referring to the figure 2 diagram.

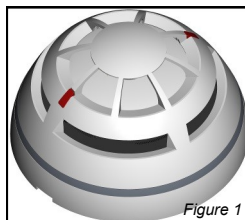


Figure 1

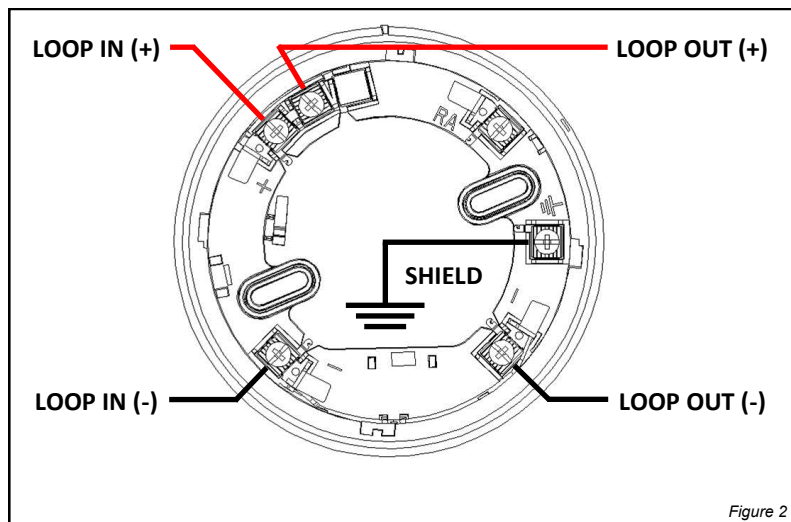


Figure 2

REMOTE OUTPUT CAPABILITY

Remote output capability is available as a standard feature, so a remote indication lamp or a compatible slave platform sounder (check power requirements and loop drive limits) may be wired to the base terminals (Figure 3).

If other equipment is connected to the remote output, its supply current must be eventually limited by using an adequate resistor. Consult the TECHNICAL SPECIFICATIONS table and assess the external device current absorption's value.

DEVICE PROGRAMMING - ADDRESS SETTING

Detectors can be addressed using a special hand-held programming unit. Addresses may be selected from a range from 1 to 240, although, of course, each device on the loop must have a unique address.

Automatic addressing by the control panel cannot be performed with this type of device.

DEVICE PROGRAMMING - THERMAL SENSITIVITY SETTING

A choice of two thermal sensitivity levels is available; these two levels correspond to a Rate Of Rise (ROR) A1R class (most sensitive) and to a class BS (least sensitive), according to the EN 54 part 5 European normative.

Sensitivity level can be selected through a hand-held programming unit or, if such feature is provided, directly through the control panel.

DETECTOR PLACEMENT

- 1) Position the detector centrally on its adaptor base ensuring it is level.
- 2) Rotate clockwise applying gentle pressure. The detector will drop into its keyed location.
- 3) Continue to rotate clockwise a few degrees until the detector has fully engaged in the adaptor base (figure 4).
- 4) When the detector is firmly engaged, check the alignment of the raised reference marks on the detector and on the base (figure 5).

IMPORTANT NOTES ON DETECTORS PLACEMENT

Disconnect loop power before installing the detector.

Dust covers help to protect the devices during shipping and when first installed. They are not intended to provide complete protection against contamination, therefore, detectors should be removed before construction, major re-decoration or other dust producing work is started. Dust covers must be removed before the system can be made operational.

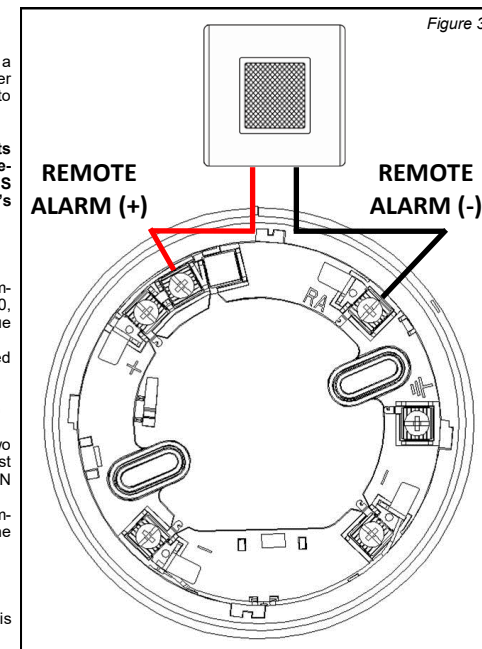


Figure 3

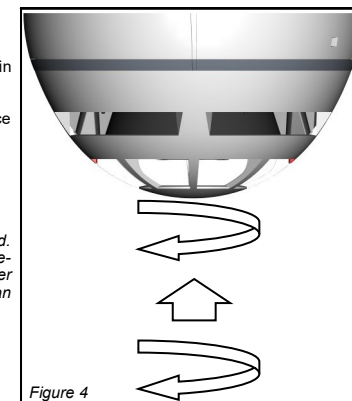


Figure 4

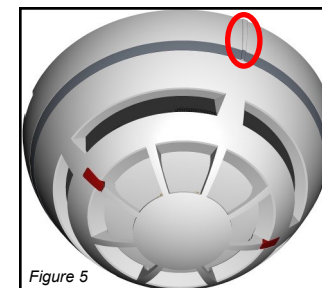
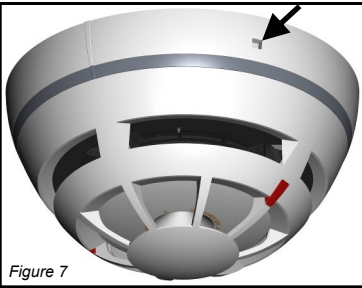
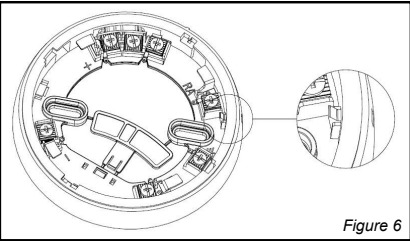


Figure 5

ANTI -TAMPER DETECTOR LOCK

The detector can be locked to its base as a deterrent to intentional removal performed by non authorized personnel. To do this tear off the little locking element from the internal border of the base and insert it in to its base recess as illustrated in figure 6.

To unlock the detector, insert the tip of a screwdriver into the side slot of the base by exerting only a light pressure (figure 7), and release the detector by turning it anticlockwise.



LED INDICATORS

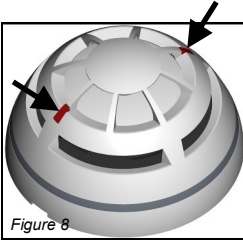
This detector is equipped with two red LEDs; their flash pattern indicate the present condition of the detector itself:

Blinking: indicates the normal operative status of the detector; the performance of this pattern depends upon the control panel's model and its settings.

Continuous: indicates an alarmed condition of the detector.

Fault conditions are not indicated by LEDs, but only on the control panel.

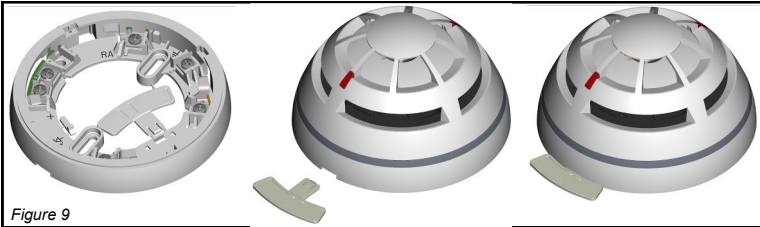
Positioning of these LEDs is illustrated in figure 8.



IDENTIFICATION TAB

The adaptor base is equipped with a plastic tab where identification data can be visibly displayed.

Detach the tab from the base; write or label it with the required information, then insert it into its adaptor base's slot.



TESTING THE DETECTORS - PRELIMINARY NOTE

Detectors should be tested after installation and during periodic maintenance visits; it is recommended each device should be tested at least once per year.

After each test reset the system and allow at least one minute for power stabilisation.

HEAT TEST

Use a hair dryer of 1000-1500 W or an heat tool from an approved manufacturer. Direct the heat towards the detector from its side. Hold the heat source at about 15 cm away from the detector in order to prevent damage to its cover during testing. The detector should trigger an alarm message to the control panel, and, successively, the detector's red LED should be activated by the control panel itself.

MAINTENANCE

Before starting any maintenance work, isolate and disable the system in order to avoid accidental and unwanted alarm or fault conditions.

Remove the detector from its mounting base to allow inspection in good light at ground level.

Inspect the thermistor area and use a small, soft bristle brush to dislodge any evident contaminants such as insects, spider webs, hairs, etc. Use a small vacuum tube or clean, dry and compressed air to suck up or blow away any remaining small particles from the thermistor area. Wipe the exterior housing of the detector with a clean, damp, lint free cloth to remove any surface film that can later attract airborne contaminants.

After all detectors have been inspected, repositioned on their mounting bases and power has been re-applied, check correct operation by testing the device.

TECHNICAL SPECIFICATIONS **

Power supply *	from 18 V (min) to 40 V (max)
Average standby current consumption	45 uA @ 24 V
Remote output max current consumption (externally limited)	20 mA
Compatible adaptor bases	Low Profile Adaptor Base
Thermal alarm threshold (ROR A1R class)	58 °C
Thermal alarm threshold (BS class)	78 °C
Operating temperature range	-30 °C / +70 °C (no icing)
Humidity	95% RH (no condensation)

* Product operates down to 15 V, but without LED indication.

** Further technical data: see document TDS-A350L held by the manufacturer.


WARNINGS AND LIMITATIONS

Our devices use high quality electronic components and plastic materials that are highly resistant to environmental deterioration. However, after 10 years of continuous operation, it is advisable to replace the devices in order to minimize the risk of reduced performance caused by external factors. Ensure that this device is only used with compatible control panels. Detection systems must be checked, serviced and maintained on a regular basis to confirm correct operation.

Smoke detectors may respond differently to various kinds of smoke particles, thus application advice should be sought for special risks. Detectors cannot respond correctly if barriers exist between them and the fire location and may be affected by special environmental conditions. Refer to and follow national codes of practice and other internationally recognized fire engineering standards. Appropriate risk assessment should be carried out initially to determine correct design criteria and updated periodically.

WARRANTY

All devices are supplied with the benefit of a limited 3 years warranty relating to faulty materials or manufacturing defects, effective from the production date indicated on each product. This warranty is invalidated by mechanical or electrical damage caused in the field by incorrect handling or usage. Product must be returned via your authorized supplier for repair or replacement together with full information on any problem identified. Full details on our warranty and product's returns policy can be obtained upon request.

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19 AT0210CPR20140225
EN 54-5:2000 + A1:2002 TI-002216
For use in compatible fire detection and alarm system. Class A1R and BS (class P)

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