

# ActiV Multi-Sensor Fire Detector

Part No. **C4414**



## Overview

A high-quality multi-sensor fire detector offering outstanding detection performance at a very competitive price.

Manufactured by C-TEC in the UK.

Third-party certified to EN54-5 and 7 by Intertek (also tested to pr-EN54-29)

Wide 6-33V DC operating voltage.

Two 8mm x 2mm ultra-bright red LED indicating strips offering 360° visibility.

Drift compensation functionality ensures detector sensitivity is automatically calibrated to suit prevailing conditions and/or increased contamination levels allowing a greater than 8 year life-span.

Incorporates a heat and smoke sensor making it ideal for detecting a wide range of fires whilst also reducing false alarms.

Compatible with our ActiV C4408D diode, C4408 non-diode and C4408R relay bases.

## Technical Specifications

|                             |                                                                                                                                                                                                                                                               |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approvals/certifications    | Certified to EN54-5 & 7 by Intertek (0359-CPR-00183).                                                                                                                                                                                                         |
| Application/operation       | As well as operating independently, the C4414's smoke & heat sensors combine to produce a sensitive response to freely burning fires, e.g. when a rise in heat is detected, its smoke response level reduces for improved detection and reduced false alarms. |
| Application temperature     | 25°C typical, 50°C max.                                                                                                                                                                                                                                       |
| Static response temperature | 54°C min, 65°C max.                                                                                                                                                                                                                                           |
| Sensitivity                 | Nominal alarm threshold of 0.16db/m obscuration measured in accordance with EN54-7:2000.                                                                                                                                                                      |
| Supply wiring               | 2-wire monitored, polarity sensitive.                                                                                                                                                                                                                         |
| Supply/operating voltage    | 6 to 33V DC.                                                                                                                                                                                                                                                  |
| Quiescent current           | 30µA @ 24 VDC                                                                                                                                                                                                                                                 |
| Alarm voltage               | 6-33V DC                                                                                                                                                                                                                                                      |
| Alarm current               | 19mA @ 12-33V DC; 11mA @ 9V DC; 2.5mA @ 6V DC                                                                                                                                                                                                                 |



|                         |                                                                                                                               |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Alarm reset voltage     | Less than 1V DC (+0.5 seconds alarm reset time)                                                                               |
| Expansion connections   | Remote LED output available via ActiV base. Current source to the negative line, short-circuit protected. Max voltage 2.7V DC |
| Product dimensions (mm) | 102.2mm diameter x 37mm deep (detector in base); 102.2mm diameter x 57.5mm deep.                                              |
| Construction & finish   | White polycarbonate casing rated to UL94 V-2 with nylon parts.                                                                |
| IP Rating               | IP42.                                                                                                                         |
| Weight                  | 99g.                                                                                                                          |



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