

## ActiV?Optical Smoke?Detector. Needs base

Part No. **C4416**



### Overview

A high-quality optical smoke detector offering outstanding detection performance at a very competitive price.

Manufactured by C-TEC in the UK.

Third-party certified to EN54-7 by Intertek.

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.

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

### Technical Specifications

|                             |                                                                                                                                                                                                                                                                |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approvals/certifications    | Certified to EN54-7 by Intertek.                                                                                                                                                                                                                               |
| Application/operation       | Uses an IR light source & photodiode to detect smoke. Typically used in escape routes, living areas, bedrooms & other enclosed spaces. Particularly effective at detecting slow burning fires caused by overheated electrical wiring or smouldering materials. |
| Application temperature     | n/a.                                                                                                                                                                                                                                                           |
| Static response temperature | n/a.                                                                                                                                                                                                                                                           |
| 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    | 9 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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