

CAST Programmable Multi-Sensor Fire Detector

Part No. CA414



Overview

- A high-quality programmable multi-sensor fire detector for use with C-TEC's XFP & ZFP 'CAST' protocol Addressable Fire Panels.
- LPCB certified to EN54-5, 7 & 17 and CEA 4021. Also Kiwa Telefication certified to EN54-13.
- Onboard programmable heat & smoke sensors make it deal for detecting a wide range of fires whilst also reducing false alarms.
- Multiple sensitivity/sensor settings.
- Smart algorithms help reduce false alarms.
- Drift compensation functionality.
- Short circuit loop isolator.
- Includes two 8mm x 2mm ultra-bright red LED indicating strips.
- Different sensitivities can be selected for different times of the day (day/night, building occupied/unoccupied etc).
- 5mA typical alarm current (370uA typical quiescent current) @ 22-40V DC.
- Programmable multi-function status LED.
- Compatible with C-TEC's CA408 CAST base c/w integrated locking mechanism & ID tag.







More Information

'CAST' is the world's most-advanced 'distributed intelligence' fire alarm system protocol. Conceived, designed and realised by C-TEC as part of a five-year, multi-million pound project, it involved the creation of a powerful proprietary communication protocol (C-TEC Addressable System Technology, CAST) and multiple control panels & field devices. Key features include: • 255 devices per loop. • Autonomous decision-making for faster response times. • Multiple type codes. • 40V loop drive voltage. • Two 'soft' addressing options – automatic via the panel or manual via a powerful handheld programmer. • Powerful multi-level addressing facilitates easy device addition and swapped device identification. • Multiple functionality at a single address (integrated devices) • Volumes, tones & detector modes can be changed at compatible panels. • High-speed data transmission and robust data transfer. • Intrinsically EN54-13 compliant. • Provides geographical location of short and open circuit faults (a short circuit isolator is included as standard in every CAST field device). • Replace device function. • Programmable multi-function status LED. •



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Future seamless integration with other CAST life safety systems reducing energy, servicing, installation and repair costs. • Designed and manufactured in the UK.

Technical Specifications

Sensitivity

Approvals/certifications LPCB certified to EN54-5, 7 & 17 and CEA 4021. Also Kiwa Telefication certified to EN54-13.

Compatibility Compatible with C-TEC's XFP/ZFP CAST Protocol Addressable Fire Panels.

Type

The CA414 multi-sensor has been designed to offer improved detection and reduced incidences of false Application/operation

alarms, As well as operating independently, the smoke & heat sensors combine to give a sensitive response

to free burning fires (when a rise in heat is detected, its sensitivity to smoke is increased).

Mode 1: High Optical + A2 Heat; Mode 2: Standard Optical; Mode 3: Standard Optical +A2 Heat; Mode 4:

Low Optical + A2 Heat; Mode 5: Class A1R Heat.

Supply wiring 2-wire, polarity sensitive.

Supply/operating voltage 22 to 40V DC.

Ouiescent current 370µA typical @ 22 to 40V DC.

Alarm current 5mA typical (LEDs illuminated) @ 22 to 40V DC.

2 LED indicator strips emitting red light when in alarm offering 360° visibility. Optional remote LED. Indicators Via CA408 base: 1 +Ve IN (analogue switch); 2 +Ve OUT (analogue switch); 3 Remote LED +Ve; 4 0V; 5 Connections

0V; 6 Screen; 7 Screen.

Product dimensions (mm) 102.2mm diameter x 37mm deep (detector only); 102.2mm diameter x 57.5mm deep (detector in base).

IP Rating

Weight 99g (not in base); 154g (in base).

Operating conditions/temperature -20 $^{\circ}$ C to +85 $^{\circ}$ C.

Notes Requires a CA408 CAST base. CA408R relay base also available.





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