

CAST Programmable Heat Detector

Part No. **CA402**



Overview

A high quality programmable heat detector for use with C-TEC's XFP&ZFP 'CAST' protocol Addressable Fire Panels.

LPCB certified to EN54-5 & 17 and Kiwa Telefication certified to EN54-13.

Can be programmed to operate as a Class A1R (rate of rise), Class A2 (64°C fixed temperature) or Class B (76°C fixed temperature) heat detector. Default setting is A2.

Onboard 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) @ 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. Now available to purchase, its 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) - due 2021.

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.

Future seamless integration with other CAST life safety systems reducing energy, servicing, installation and repair costs.

Designed and manufactured in the UK.

Technical Specifications

Approvals/certifications	LPCB certified to EN54-5 & 17 and Kiwa Telefication certified to EN54-13.
Compatibility	Compatible with C-TEC's XFP/ZFP CAST Protocol Addressable Fire Panels.
Type	Class A1R, Class A2 or Class B Heat (Programmable).
Application/operation	Generates an alarm when a specific temperature is reached (Modes 1, 2 & 3). In Mode 1 also generates an alarm when a sudden rise in temp is detected.
Application temperature	25°C typical, 50°C max (in Class A1R and Class A2 mode); 40°C typical, 65°C max (in Class B mode). In A1R mode the detector will also trigger if it detects a sudden rise in temperature.
Static response temperature	54°C min, 65°C max (in Class A1R and Class A2 mode); 69°C typical, 85°C max (in Class B mode).
Sensitivity	Mode 1 (A1R): Rate of Rise and 56°C fixed; Mode 2 (A2): 62°C fixed; Mode 3 (B): 74°C fixed. Selectable at the panel.
Supply wiring	2-wire, polarity sensitive.
Supply/operating voltage	22 to 40V DC.
Quiescent current	370µA typical @ 22 to 40V DC.
Alarm current	5mA typical (LEDs illuminated) @ 22 to 40V DC.
Indicators	2 LED indicator strips emitting red light when in alarm offering 360° visibility. Optional remote LED.
Connections	Via CA408 base: 1 +Ve IN (analogue switch); 2 +Ve OUT (analogue switch); 3 Remote LED +Ve; 4 0V; 5 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).
Construction & finish	White polycarbonate casing rated to UL94 V-2 with nylon parts.
IP Rating	IP42.
Weight	99g (not in base); 154g (in base).
Operating conditions/temperature	-20°C to +85°C.
Notes	Requires a CA408 CAST base. CA408R relay base also available.



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