

Context Plus

CAST Addressable Fire Detection & Alarm Systems



XFP ZFP ENVISION



NEXT GENERATION FIRE DETECTION & ALARM SYSTEMS FROM CONTEXT PLUS

MEET THE CAST!

The future of fire alarm systems is here.

The Context Plus CAST range of addressable fire alarm systems is the result of a multi-million pound investment project.

Conceived, designed and realised in the UK, the creation of CAST involved the design of a powerful proprietary communication protocol, multiple control panels & field devices and a new Cloud-based remote access, data management & system testing software package called ENVISION.

When the world's most advanced distributed intelligence protocol meets the world's most powerful control, indicating, detection and alarm equipment, the result is an array of cutting-edge features and benefits as detailed throughout this brochure.

The future of fire alarm systems is here!



XFP

ZFP

ENVISION



CAST Addressable Fire Systems

**CAST SYSTEM &
PROTOCOL OVERVIEW**

04

CAST XFP
1-2 LOOP PANELS

06

CAST ZFP
1-8 LOOP PANELS

08

CAST ZFP
COMPACT CONTROLLERS

12

CAST ZFP A-BUS
EXPANSION CARDS

13

ENVISION
FIRE IOT SOFTWARE

18

CAST
FIRE DETECTORS

20

CAST
MANUAL CALL POINTS

22

CAST
SOUNDERS & VADS

24

CAST-PRO INTEGRATED
DETECTION & ALARM DEVICES

26

CAST
INTERFACES

32

Key features

- ▶ Up to 255 addressable field devices per loop
- ▶ 40V loop drive voltage to help ensure devices work as expected even on long wiring runs
- ▶ Wide choice of control panels - choose from our XFP 1-2 loop CAST range or ZFP 1-8 loop CAST range
- ▶ Autonomous decision-making for faster response times
- ▶ Multiple type codes making the system easier to program and test
- ▶ Two 'soft' addressing options – automatic via the panel or manual via a powerful handheld programmer
- ▶ Powerful multi-level addressing facilitating easy device addition and swapped device identification
- ▶ Multiple volumes, tones & detector modes that can be easily changed at any CAST compatible panel via a PC laptop
- ▶ High-speed data transmission and robust data transfer ensuring rapid response to fires, faults, pre-alarms and other system events
- ▶ EN54-13 compliance providing reassurance to all that the system's components will work as expected
- ▶ Geographical location of open and short circuit faults to speed up installation and maintenance times
- ▶ The ability to easily accommodate spurs on retro-fit systems allowing the easy upgrade of existing systems
- ▶ An intuitive replace device function
- ▶ Powerful cause and effects allowing the system to be tailored to suit a specific application
- ▶ Integrated CAST-PRO detection and alarm devices also available (for use on ZFP systems only - see pages 22-24)
- ▶ Designed and manufactured in the UK



What's so special about the CAST communication protocol?

With many loop-based addressable fire alarm protocols the control panel (CIE) typically polls loop devices one after the other to determine what their status is and/or to give them a command (see Fig 1). This is termed point-to-point or node-to-node communication where devices are polled sequentially.

Each poll can be described as a data frame which, on many systems, typically involves voltage pulses going out from the panel and current pulses coming back from the devices.

If, say, device 2 is a detector and it is in a fire condition, this will take some time to be reported back to the panel especially on systems with over 100 devices as over 100 data frames would need to be sent before a message is reported back.

BROADCAST MESSAGES

Instead of polling devices sequentially, CAST sends a broadcast message to 16 devices at a time (see Fig 2). Devices respond if they are present or have something to say. In between these broadcast messages is an opportunity for any node on a loop to report an event to the CIE. If the event reported is an alarm, the protocol's broadcast messaging can be further utilised to activate output devices (16 groups at a time).

CAST field devices are also intelligent enough to know if another device has a higher priority message (they not only listen to the panel, they listen to each other, avoiding potential collisions). This means if they are in fault they will back off from reporting the fault because they know another device is in a fire condition which is a higher priority (a feature we call autonomous decision making).

POWERFUL GROUP ACTIVATION COMMANDS

All of this means fires can be annunciated very quickly as sounders can be activated (and silenced) within fractions of a second. This coupled with CAST's powerful group activation commands means rapid deployment of alarm signals.

The CAST communication protocol uses a combined voltage and current or hybrid return signal. This has the advantage of requiring a much larger amount of power to disrupt this signal making the system far more immune to noise and interference and thus data corruption. In fact it is greater than 20 times more immune than typical existing systems using a 20mA current return protocol. CAST really is the answer to noisy environments. And that's not all...

SMART DEVICE ALGORITHMS

The use of embedded device intelligence has many advantages and one of these is that CAST's optical and multi-sensor detectors feature multiple smart transient rejection algorithms that negate the impact of sudden

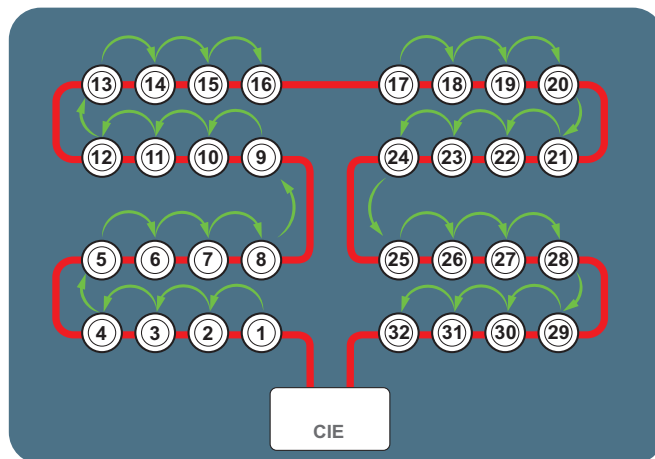


Figure 1: Typical 'point-to-point' communication

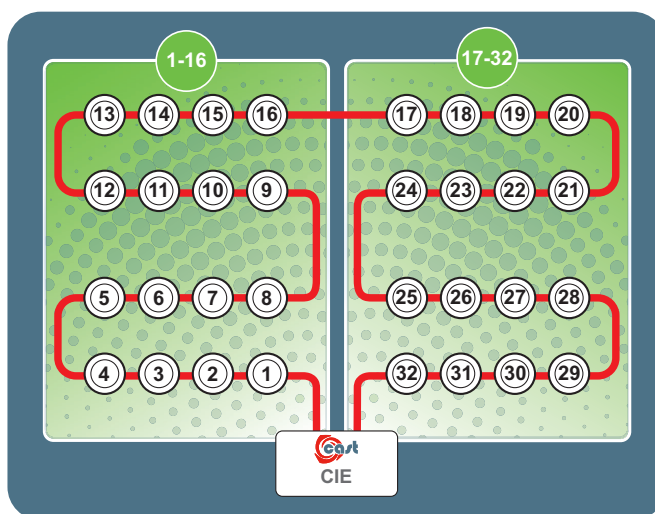


Figure 2: CAST's 'broadcast message' communication

surges of steam making them ideal for use in industrial, residential and catering environments. In addition CAST's heat detectors are embedded with our unique 'HEART' (HEat Analysis and Response Technology) algorithm which ensures each detector remains in a high state of readiness for a potential fire alarm situation. What does this mean in practice? Solid and reliable fire detection and alarm indication, less false alarms and massively reduced lifetime ownership costs.

You've always been safe with Context Plus, with CAST, you're even safer.

CAST XFP 1 to 2 Loop Fire Alarm Panels

The Context Plus CAST protocol takes the performance of our popular 1-2 loop XFP fire panels to another level.

Thanks to CAST's multiple type codes, high speed data transmission and two speedy soft addressing options, it is now one of the most powerful, feature-packed addressable fire panels on the market.

Maintaining all of the qualities of our existing XFP panels but with the added advantage of CAST's 255 devices per loop and 40V 450mA loop drivers giving up to 18 Watts of power, never before has the installation of a high-quality and cost-effective EN54-2, EN54-4 and EN54-13 certified addressable fire system been so easy.

Available as a low-cost single loop 16 zone panel in a plastic enclosure or a robust 1 or 2 loop 32 zone metal panel, the range offers an array of user and installer-friendly features. This, and the ability to interconnect up



**TWO
speedy device
addressing options -
automatic at the panel
or manually via CAST's
powerful handheld
programmer**

to eight XFP main panels or eight XFP repeaters onto a two wire RS485 network, make it ideal for use in small to medium sized applications and larger, more sophisticated installations too.

Key Features

- ▶ LPCB certified to EN54-2/4 and Kiwa Telefication certified to EN54-13
- ▶ One or two 450mA loop drivers (dependent on model)
- ▶ Up to 255 Context Plus CAST devices per loop
- ▶ Two independently programmable conventional sounder circuits
- ▶ Two programmable inputs
- ▶ A fault output relay and three programmable relay outputs with voltage free changeover contacts
- ▶ A selection of zone dependency/coincidence functions
- ▶ A day/night (building occupied/unoccupied) function
- ▶ An investigation delay period function
- ▶ Phased evacuation facility
- ▶ Built-in alarm counter
- ▶ Powerful short circuit protected loop drivers, capable of supporting multiple loop powered sounders per loop
- ▶ Earth fault monitoring
- ▶ Combined keypad / keyswitch entry to Access Levels 2 & 3
- ▶ 500 event monitoring
- ▶ ENVISION Enabled™ - fully compatible with our powerful remote access, data management & system testing software - see page 18 for more details
- ▶ An intuitive Windows based upload-download PC program
- ▶ Optional flush-mounting bezel and glazed stainless steel enclosure also available
- ▶ Up to eight XFP main panels (any variant) can be connected onto a two-wire RS485 1km non-redundant network. Alternatively, up to eight XFP repeaters can be connected to any non-networked main panel
- ▶ Protective cover on PSU guards against live parts and facilitates compliance with the new safety requirements of EN 62368-1
- ▶ Designed and manufactured in the UK

CAST XFP 1-2 Loop Fire Panels

XFP 1 Loop 16 Zone Addressable Fire Panel



- ▶ LPCB certified to EN54-2/4 and Kiwa Telefication certified to EN54-13
- ▶ Cost-effective 16 zone single loop panel allowing the connection of up to 255 CAST devices
- ▶ Supplied in an attractive flush or surface mountable plastic enclosure
- ▶ ENVISION Enabled™ - see page 18
- ▶ Enclosure measures 380 W x 235 H x D 96mm with space for 2 x 3.2Ahr batteries
- ▶ Low quiescent current (50mA, loop unloaded)



XFP501E/CA/CON XFP 1 Loop 16 Zone Addressable Fire Panel, CAST protocol

XFP 1 Loop 32 Zone Addressable Fire Panel



- ▶ LPCB certified to EN54-2/4 and Kiwa Telefication certified to EN54-13
- ▶ A powerful 32 zone single loop panel supplied in a durable metal enclosure
- ▶ ENVISION Enabled™ - see page 18
- ▶ Enclosure back box measures 410 W x 250 H x 80 D mm with space for 2 x 7Ahr batteries
- ▶ Semi-flush bezels (XFP385) and glazed stainless steel enclosures (BF359/3S) also available
- ▶ Low quiescent current (80mA, loop unloaded)



XFP501/CA/CON XFP 1 Loop 32 Zone Addressable Fire Panel, CAST protocol

XFP 2 Loop 32 Zone Addressable Fire Panel



- ▶ LPCB certified to EN54-2/4 and Kiwa Telefication certified to EN54-13
- ▶ A powerful 32 zone two loop panel supplied in a durable metal enclosure
- ▶ ENVISION Enabled™ - see page 18
- ▶ Enclosure back box measures 410 W x 250 H x 80 D mm with space for 2 x 7Ahr batteries
- ▶ Semi-flush bezels (XFP385) and glazed stainless steel enclosures (BF359/3S) also available
- ▶ Low quiescent current (100mA, 2 loops unloaded)



XFP502/CA/CON XFP 2 Loop 32 Zone Addressable Fire Panel, CAST protocol

Repeaters, Enclosures & Programming Software



XFP510-16	XFP Repeater panel, 16 zones. Max. 2 x 3.2Ah batteries
XFP510-32	XFP Repeater panel, 32 zones. Max. 2 x 7Ah batteries
CFP761	Network communications card for XFP 16 zone panels
AFP711	Network communications card for XFP 32 zone panels
BF359/3S	Stainless steel glazed enclosure for XFP 32 zone panels
BF359/3CL	Cam lock kit for BF359/3S stainless steel enclosure
BF359/3SL	Electromagnetic solenoid lock kit for BF359/3S stainless steel enclosure
AFP709	XFP printer kit (printer, lead & socket) for XFP 32 zone panels
XFP507	XFP Programming software c/w BF395 RS232 to USB lead
BF395	1.8m RS232 to USB programming lead

CAST ZFP 1-8 Loop Fire Alarm Panels

Our super-advanced ZFP networkable 1-8 loop Context Plus CAST protocol touchscreen-controlled fire panels represent a revolution in fire alarm technology.

Certified to EN54-2, EN54-4 and EN54-13, the ZFP can be configured to suit any application. From small 'one out, all out' systems to large multi-loop 64 node networked systems with sophisticated cause and effects, the ZFP can handle them all – with ease.

Everything about the ZFP's unique full-colour touchscreen has been designed with its users in mind. Simply tap the option you require and away you go. Whether you're the responsible person on site, the installer, the commissioning engineer or the emergency services, you can access the information you require quickly and easily

TWO
speedy device
addressing options -
automatic at the panel
or manually via CAST's
powerful handheld
programmer



- all at the touch of a virtual button.

Powerful diagnostics, rapid loop learn, 'SafeMode' and a unique 'DeviceManager' function combine to make the ZFP one of the most user-friendly control panels on the market.

With a vast selection of cabinet sizes, modules, controllers and ancillary 'A-Bus' PCBs available, designing your own ZFP for a specific application is simplicity itself.

Key Features

- ▶ LPCB certified to EN54-2/4 and Kiwa Telefication certified to EN54-13
- ▶ ENVISION Enabled™ - fully compatible with our powerful remote access, data management & system testing software - see page 18 for more details
- ▶ 450mA loop drivers giving up to 18 Watts of power
- ▶ Up to 255 Context Plus CAST devices per loop
- ▶ Three cabinet sizes - standard, medium and large
- ▶ Up to 8 loops per panel (four in standard cabinet)
- ▶ Up to 64 ZFP main panels & 64 Compact Controllers can be connected to the ZFP's Hi-integrity fault-tolerant RS485 network
- ▶ Wide range of Switch & Indicator modules
- ▶ Multiple 'A-Bus' expansion PCBs (I/O Units, Relays, etc)
- ▶ User-friendly full colour touchscreen with dynamic buttons and virtual QWERTY keyboard - touchscreen can be customised to include a company logo (.gif)
- ▶ Up to 200 separate and programmable zonal LEDs per panel (medium and large cabinets only)
- ▶ Very flexible cause and effects
- ▶ 10,000 programmable and indicatable detection zones
- ▶ Up to 38 characters of custom text per loop device
- ▶ 9,999 event memory (filterable by fire, fault & date)
- ▶ Non-fire supervisory event functionality
- ▶ Optional thermal printers
- ▶ 20-way heavy-duty brass earth bar as standard
- ▶ 72-hour standby (+ 30 min alarm) in standard cabinets
- ▶ Built-in loop status & current-reading
- ▶ Powerful engineering and commissioning functions including SafeMode and DeviceManager
- ▶ Attractive Compact Controllers
- ▶ Wide range of flush-fit bezels and attractive glazed stainless steel frames
- ▶ Powerful and intuitive PC programming tools
- ▶ Protective cover on PSU guards against live parts and facilitates compliance with the new safety requirements of EN 62368-1

CAST ZFP 1-8 Loop Fire Panels

ZFP 1-4 Loop Fire Panels with 40 Zonal Indicators



ZFP1/40/CA/CON, ZFP2/40/CA/CON & ZFP4/40/CA/CON

- ▶ Supplied with a touchscreen control module (Z41) and a 40 Programmable zonal indicators with name slots module (Z47).
- ▶ ENVISION Enabled™ and can be extended with expansion PCBs and other equipment
- ▶ Cabinet measures W 450 x H 462 x D 127mm
- ▶ Max 2 x 18 AHr batteries

ZFP1/40/CA/CON	ZFP 1 Loop Standard Panel, CAST protocol, Max 2 x 18Ah batteries
ZFP2/40/CA/CON	ZFP 2 Loop Standard Panel, CAST protocol, Max 2 x 18Ah batteries
ZFP4/40/CA/CON	ZFP 4 Loop Standard Panel, CAST protocol, Max 2 x 18Ah batteries

ZFP 6-8 Loop Fire Panels with 40 Zonal Indicators



ZFP6/40/CA/CON & ZFP8/40/CA/CON

- ▶ Supplied with a touchscreen control module (Z41) and a 40 Programmable zonal indicators with name slots module (Z47).
- ▶ ENVISION Enabled™ and can be extended with expansion PCBs and other equipment
- ▶ Wide range of bezels and glazed stainless steel frames available
- ▶ Cabinet measures W 450 x H 720 x D 200mm
- ▶ Max 2 x 38 AHr batteries

ZFP6/40/CA/CON	ZFP 6 Loop Medium Panel, CAST protocol, Max 2 x 38Ah batteries
ZFP8/40/CA/CON	ZFP 8 Loop Medium Panel, CAST protocol, Max 2 x 38Ah batteries

ZFP 1-4 Loop Fire Panels with 40 Zonal Indicators, Printer & 2 Keyswitches



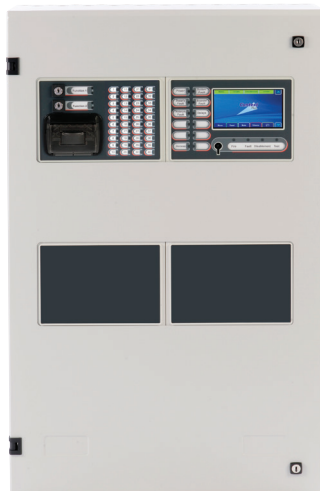
ZFP1/40P/CA/CON, ZFP2/40P/CA/CON & ZFP4/40P/CA/CON

- ▶ Supplied with a touchscreen control module (Z41) and a 40 Programmable zonal indicators, printer & 2 programmable keyswitches module (Z49).
- ▶ ENVISION Enabled™ and can be extended with expansion PCBs and other equipment
- ▶ Cabinet measures W 450 x H 462 x D 127mm
- ▶ Max 2 x 18 AHr batteries

ZFP1/40P/CA/CON	ZFP 1 Loop Standard Panel, CAST protocol, Max 2 x 18Ah batteries
ZFP2/40P/CA/CON	ZFP 2 Loop Standard Panel, CAST protocol, Max 2 x 18Ah batteries
ZFP4/40P/CA/CON	ZFP 4 Loop Standard Panel, CAST protocol, Max 2 x 18Ah batteries

CAST ZFP 1-8 Loop Fire Panels

ZFP 6-8 Loop Fire Panels with 40 Zonal Indicators, Printer & 2 Keyswitches

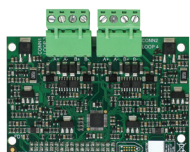


ZFP6/40P/CA/CON & ZFP8/40P/CA/CON

- ▶ Supplied with a touchscreen control module (Z41) and a 40 Programmable zonal indicators with name slots module (Z47).
- ▶ ENVISION Enabled™ and can be extended with expansion PCBs and other equipment
- ▶ Wide range of bezels and glazed stainless steel frames available
- ▶ Cabinet measures W 450 x H 720 x D 200mm
- ▶ Max 2 x 38 Ahr batteries

ZFP6/40P/CA/CON	ZFP 6 Loop Medium Panel, CAST protocol, Max 2 x 38Ah batteries
ZFP8/40P/CA/CON	ZFP 8 Loop Medium Panel, CAST protocol, Max 2 x 38Ah batteries

ZFP 2 Loop Expansion PCB



- ▶ Allows a 2 loop ZFP fto be extended to 4 loops (not compatible with single loop ZFPs)

Z02LOOP/CA	ZFP 2 Loop Expansion PCB
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ZFP Programming Software



- ▶ An intuitive Windows based upload-download PC program supplied on a USB stick

ZTOOLS	ZFP Programming Software c/w USB 'A' to USB 'B' programming lead
BF397	3m USB 'A' to USB 'B' programming lead

ZFP Flush Fit Bezels & Stainless Steel Frames



ZBEZS



ZBEZDS/SS

- ▶ Allow standard or medium sized ZFP fire panels to be semi-flush mounted or housed on a decorative tamper-resistant glazed stainless steel frames

ZBEZS	Flush-fit Bezel for ZFP Standard Cabinet (W492 x H504 x D30mm)
ZBEZM	Flush-fit Bezel for ZFP Medium Cabinet (W492 x H762 x D30mm)
ZBEZDS/SS	Glazed Stainless Steel Frame for ZFP Standard Cabinet
ZBEZDM/SS	Glazed Stainless Steel Frame for ZFP Medium Cabinet

ZFP Paging Equipment



► A range of alphanumeric paging equipment that allows a ZFP's fire conditions to be reported directly to one or more alphanumeric pagers. One BF874QAQ transmitter provides up to 500m coverage (BF876DQ dipole extension aerial increases coverage to up to 1500m)

BF874QAQ	Serial Alphanumeric Display Paging Transmitter, up to 500m range
BF876DQ	Dipole 400mHZ Aerial c/w 10m Lead, extends paging range up to 1500m
BF877QAQ	40 Character Alphanumeric Pocket Display Pager
AFP600S	RS232 Isolated Wall Socket (one required per system)

CAST Handheld Device Programmer



If you don't want to use CAST's fully automatic programming capability or want to check what address and parameters have been auto-assigned to a device, our CAST Handheld Device Programmer is for you. You can programme entire systems with it, as well as testing a device.

So how does the Programmer work? As well as allowing you to address devices sequentially, it allows you to read the address of a pre-programmed CAST device and, if required, change it. It also allows you to activate a sounder's sounder to check it is working correctly and/or to test a detector's optical chamber by applying test 'smoke' to it whilst it is on the Programmer (note this does not replace the requirement for full BS 5839-1 in-situ device testing).

Robust and easy to operate, the Programmer is compatible with our entire range of CAST detectors, manual call points, sounders, VADs, voice sounders and interface modules.

Detectors and compact sounders connect directly to the Programmer's built-in CAST base. Other devices connect to the Programmer's positive and negative jack sockets using a remote connection lead (supplied).

The Programmer is battery powered (requiring four x 1.5V AA batteries) and features an easy-to-read backlit LCD with an adjustable contrast control. An auto-shutdown feature helps to preserve battery life.

CAPROG	CAST Handheld Device Programmer
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CAST ZFP Compact Controllers

Our classy Compact Controllers are perfect for getting across key system information in an eye-catching yet straightforward manner.

Why not locate the main ZFP panel out of sight and let a state-of-the-art CAST compact controller enhance the design of the reception area whilst still providing the controls and features the fire and rescue service and authorised users need? Surface and flush versions are available and up to 64 can be used per system.

Should you need to add Zonal Indicators alongside a Compact Controller, you can do so using an appropriate Switch & Indicator Module, surface or flush single module cabinet and alignment plate.

ZFP Compact Controllers

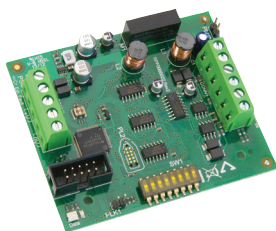


- ▶ Attractive compact controllers that can be used as traditional repeater panels but with added functionality
- ▶ Flush and surface versions available
- ▶ Each controller includes touchscreen control module (Z41) and a 'Hi-NET' multipath fault-tolerant network PCB (ZHN)
- ▶ Full Access Level 2 functionality (silence, disable, reset, etc.)
- ▶ Requires a separate EN54-4 boxed PSU such as the BF360-24 1A 24V PSU
- ▶ Up to 64 Compact Controllers can be connected to a ZFP network (each controller is classed as one network node)
- ▶ Glazed stainless steel frames (ZBEZDC/SS) and vertical and horizontal alignment plates (ZMBOXAL & ZMBOXAS) also available

* If using a Compact Controller a separate ZHN PCB must be fitted at the ZFP main panel.

ZREP1F/CA/CON	ZFP Flush Compact Controller (214 W x 178 H x 70 D mm) c/w ZHN network PCB
ZREP1S/CA/CON	ZFP Surface Compact Controller (214 W x 178 H x 70 D mm) c/w ZHN network PCB

ZFP Hi-Net Multi-Path Fault Tolerant Network PCB



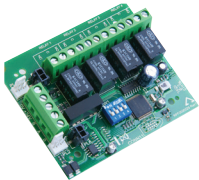
- ▶ Allows the interconnection of up to 64 ZFP Main Panels (any mix) and up to 64 ZFP Compact Controllers over a two-wire RS485 ring-wired, multi-path, fault-tolerant 'Hi-Net' network
- ▶ One ZHN required per ZFP Main Panel (ZFP Compact Controllers include a ZHN PCB as standard)
- ▶ RS485 Protocol
- ▶ Max. cable length between nodes = 1KM
- ▶ Max. cable length of entire network = 128KM
- ▶ For retrofits, multiple ZHNs can be wired in a non-fault tolerant, single-path network configuration (Max. 8 nodes; Max length of entire network must not exceed 1KM)

ZHN	ZFP Hi-Net Multi-Path Fault Tolerant Network PCB
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CAST ZFP A-BUS Expansion Cards

'A-BUS' cards are typically located inside a ZFP to add extra functionality such as relay outputs, inputs/outputs, conventional sounder circuits and detection zones. Up to 15 cards can be connected to a ZFP's RS485 'A-BUS' network (the larger the cabinet, the more cards can be fitted) Although typically located inside the ZFP, for non-EN54 functions, they can be located up to 1KM away from the panel. All include polling, power and activated indicators and are programmable via the ZFP's PC tools.

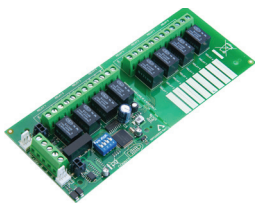
ZFP 4 Relay PCB (half size)



- ▶ A 4-Way Relay PCB to enhance the functionality of a ZFP fire panel with 4 additional relay outputs
- ▶ 4 x 1A 30V single pole contacts programmable via the ZFP's PC Tools

Z11	ZFP 4 Relay PCB (half size)
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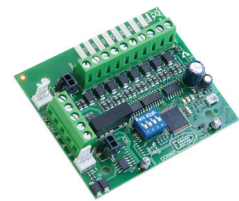
ZFP 8 Relay PCB (full size)



- ▶ An 8-Way Relay PCB to enhance the functionality of a ZFP fire panel with 8 additional relay outputs
- ▶ 8 x 1A 30V single pole contacts programmable via the ZFP's PC Tools
- ▶ Full size PCB can be scored in the middle to produce a half size 4 way relay PCB

Z12	ZFP 8 Relay PCB (full size)
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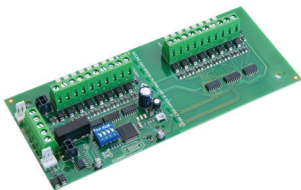
ZFP 8 Way Input Output PCB (half size)



- ▶ An 8-Way Input Output PCB to enhance the functionality of a ZFP fire panel
- ▶ Provides 8 monitored switch inputs/open collector outputs (dependent on wiring configuration used)
- ▶ Full size PCB can be scored in the middle to produce a half size 8 Input Output PCB.

Z13	ZFP 8 Way Input Output PCB (half size)
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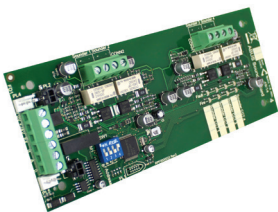
ZFP 16 Way Input Output PCB (full size)



- ▶ A 16-Way Input Output PCB to enhance the functionality of a ZFP fire panel
- ▶ Provides 16 monitored switch inputs/open collector outputs dependent on wiring configuration used
- ▶ Full size PCB can be scored in the middle to produce a half size 8 Input Output PCB

Z14	ZFP 16 Way Input Output PCB (full size)
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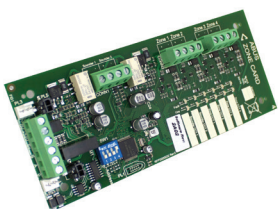
ZFP 4 Way Conventional 1A 6K8 Sounder Circuit PCB (full size)



- ▶ Adds four additional 1A 6K8 conventional sounder circuits to a ZFP fire panel
- ▶ All circuits fully monitored and programmable via the ZFP's PC Tools
- ▶ Requires a separate EN54-4 PSU mounted external to the panel

Z15	ZFP 4 Way Conventional 1A 6K8 Sounder Circuit PCB (full size)
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ZFP 4 Way Detection Zone & 2 Way x 1A 6K8 Sounder Circuit PCB (full size)



- ▶ Provides four monitored conventional Zone circuits and two 1A 6K8 rated conventional sounder circuits
- ▶ All circuits fully monitored and programmable via the ZFP's PC Tools
- ▶ Requires a separate EN54-4 PSU mounted external to the panel
- ▶ Up to 10 conventional detection devices per Zone

Z16	ZFP 4 Way Detection Zone & 2 Way x 1A 6K8 Sounder Circuit PCB (full size)
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ENVISION Remote Access, Service, Test & Site Management Software

Introducing ENVISION, a revolutionary new secure Cloud based remote access, service, test and site management software package.

Add an ENVISION 'IoT' Access Hub to your CAST fire detection and alarm system to unlock a host of powerful features that are perfect for installers, end users, duty holders, site managers, responsible persons and more.

Want to check the status of a CAST system from a remote location? Not a problem! Wherever you are in the world, ENVISION allows you to generate powerful site-specific reports that can be scheduled to arrive on your desktop daily, weekly or monthly to help demonstrate due diligence via a verifiable audit trail.

Want fires, faults, tests and other system notifications to be sent in real time to a PC, tablet or smart phone? Job done! There's even a powerful graphics module that allows you to monitor the progress of a fire as it happens on a user-uploaded site map or building plan.

Want evidence that a client's weekly BS 5839-1 user tests are being carried out? It's all there at the touch of button.

Key Features

- ▶ Allows the secure Cloud based monitoring and testing of a CAST powered XFP or ZFP fire detection & alarm system
- ▶ Reports fires, faults, tests and other system data to PCs, tablets and smart phones for action and analysis
- ▶ Powerful graphics module allows the easy addition of interactive building layouts and floor plans
- ▶ Allows duty holders and responsible persons to demonstrate due diligence via a verifiable audit trail
- ▶ Allows maintenance companies to schedule timely service visits based on real data such as device contaminations, etc.

ENVISION really comes into its own if you're an installer or a service and maintenance company. Not only does it allow authorised personnel to interrogate a CAST system prior to visiting site to determine if there are any contaminated devices or other issues, ENVISION's iOS and Android compatible Engineer App can save you masses of time and money. Simply download the App, enter a site's unique service PIN code and turn a two-man service job into a one-man service job. Not only will the App countdown the number of tests that need performing, successful and failed tests will be reported to your device and you will have the option to add comments or upload photos as required for inclusion in future client reports. No longer will you need to invent a complex verification system to prove that a device has been tested, thanks to ENVISION all the data you need will be available 24/7.

In an era when failure to carry out your fire safety responsibilities can leave you open to litigation, ENVISION not only makes your job easier, it provides indisputable evidence that you are carrying out your mandated duties effectively.

- ▶ Can generate powerful user configurable reports that can be scheduled to arrive on your desktop daily, weekly or monthly.
- ▶ Dedicated iOS & Android 'Service' Apps allow speedy one man walk tests with powerful features such as 'device countdown', photo upload and engineer comments all provided as standard
- ▶ Optional SMS, 'push' or email notification alerts for tests, fires, faults, pre-alarms and escalations
- ▶ All data encrypted and stored in an ISO 27001 and ISO 9001 certified data centre

* Firmware upgrade may be required on an existing XFP/ZFP system.



ENVISION

ENVISION ENABLED™



Live colour-coded site activity overviews

Real time notifications of Fires, Faults, Pre-Alarms & More

Comprehensive system activity reports direct to your desktop

Check a system's status from a remote location

View the progress of a fire in real time on site specific graphics

Intuitive Engineer Smartphone App

ENVISION Fire 'IoT' Access Hub + 12 Months ENVISION Cloud Access



- ▶ Designed to be mounted alongside a CAST XFP or ZFP fire panel to provide access to our powerful ENVISION Fire 'IoT' Software
- ▶ Hub measures 380 W x 235 H x 96 D mm and includes a power supply and space for standby batteries
- ▶ Connects to an XFP or ZFP fire panel's RS232 serial port
- ▶ Requires an Ethernet (RJ45) connection to the building's internet
- ▶ Includes comprehensive status Indicators
- ▶ Upon activation, provides 12 months access to our ENVISION software (annual renewal fee applies thereafter)

ENV/1

ENVISION Fire 'IoT' Access Hub + 12 Months ENVISION Cloud Access

Contact our sales desk for more options /pricing information

CAST Fire Detectors

Our UK manufactured CAST optical, programmable heat and programmable multi-sensor detectors have been designed to cover every conceivable fire detector application.

LPCB certified to the relevant parts of EN54-5, EN54-7, EN54-17 & CEA 4021 and EN54-13 certified by Kiwa Telefication, they include two ultra-bright LED indicator strips offering 360 degree visibility, an ingenious detector/base locking mechanism, a programmable multi-function status LED and an onboard short circuit loop isolator.

CAST's optical and multi-sensor detectors feature a series of smart transient rejection algorithms that negate the impact of sudden surges of steam making them ideal for use in industrial, residential and catering environments. In addition, CAST's heat detectors are embedded with our unique 'HEART' (HEat Analysis and Response Technology) algorithm which ensures each detector remains in a high state of readiness for a potential fire alarm situation. Fancy words but what do they mean in practice? In a nutshell: solid, reliable smoke & heat detection, less false alarms and massively reduced lifetime ownership costs.



With the availability of different sensitivity settings for different times of the day (e.g. building occupied/building unoccupied), CAST fire detectors are undoubtedly the most powerful and robust detection devices on the market.

Key Features

- ▶ An innovative range of 'Best in Class' optical, heat and multi-sensor fire detectors all designed and manufactured in the UK
- ▶ LPCB certified to EN54-5, 7, 17 & CEA 4021 (as indicated) and Kiwa Telefication certified to EN54-13
- ▶ Heat and multi-sensor variants are programmable to cover virtually every conceivable smoke and/or heat detector application with multiple LPCB certified modes of operation (meaning less devices to stock and carry on your van or in your warehouse/distribution centre)
- ▶ Two ultra-bright LED indicator strips offering 360 degree visibility
- ▶ Ingenious detector/base locking mechanism
- ▶ Smart algorithms help reduce false alarms
- ▶ Drift compensation functionality
- ▶ Short circuit loop isolator in every device
- ▶ Different sensitivities can be selected for different times of the day (day/night, building occupied/unoccupied, etc.)
- ▶ Programmable multi-function status LED
- ▶ Compatible with our CA408/CON standard and CA408R/CON relay base
- ▶ All performance data available on request
- ▶ Polling LED can be set to flashing or non-flashing
- ▶ Coloured rings denote detector type (red = heat, grey = smoke, blue = multi) to help simplify system testing
- ▶ Optional conduit adaptor boxes available to aid installation on suspended ceilings and tiles

CAST Optical Smoke Detector



- ▶ Smart algorithms help reduce false alarms
- ▶ LPCB certified to EN54-7 & 17 and Kiwa Telefication certified to EN54-13
- ▶ Onboard short circuit loop isolator
- ▶ Drift compensation functionality
- ▶ 0.16dB/m sensitivity/obscuration level
- ▶ 5mA typical alarm current (370µA typical quiescent) @ 22-40V DC
- ▶ Compatible with our CA408/CON & CA408R/CON Context Plus bases
- ▶ 102.2mm diameter x 37mm (depth incl. base = 57.5mm)



CA416/CON CAST Optical Smoke Detector

CAST Programmable Heat Detector



- ▶ 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 is A2.
- ▶ LPCB certified to EN54-5 & 17 and Kiwa Telefication certified to EN54-13
- ▶ Onboard short circuit loop isolator
- ▶ 5mA typical alarm current (370µA typical quiescent) @ 22-40V DC
- ▶ Compatible with our CA408/CON & CA408R/CON Context Plus bases
- ▶ 102.2mm diameter x 37mm (depth incl. base = 57.5mm)



CA402/CON CAST Programmable Heat Detector

CAST Programmable Multi-Sensor Fire Detector

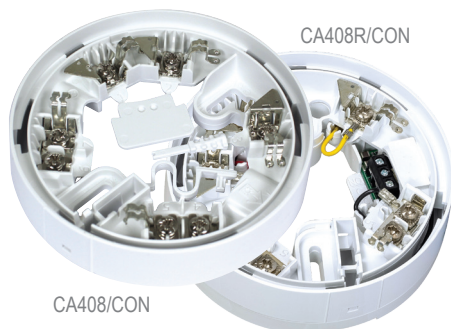


- ▶ Onboard programmable heat & smoke sensors make it ideal for detecting a wide range of fires whilst also reducing false alarms
- ▶ LPCB certified to EN54-5, 7, 17 & CEA 4021 and Kiwa Telefication certified to EN54-13
- ▶ Onboard short circuit loop isolator
- ▶ Multiple sensitivity/sensor settings (high, std1, std 2, low, heat only)
- ▶ Smart algorithms and drift compensation functionality help reduce false alarms
- ▶ 5mA typical alarm current (370µA typical quiescent) @ 22-40V DC
- ▶ Compatible with our CA408/CON & CA408R/CON Context Plus bases
- ▶ 102.2mm diameter x 37mm (depth incl. base = 57.5mm)



CA414/CON CAST Programmable Multi Sensor

CAST Detector Bases



- ▶ Compatible with our entire range of Context Plus CAST detectors
- ▶ Simple 'click and twist' easy to fit design with lots of working space
- ▶ Can be ceiling mounted in any orientation due to the true 360° degree viewing angle of the LED indicator strips on all CAST detectors
- ▶ Integrated detector/base locking mechanism, head removal tool and ID tag
- ▶ Remote LED terminals for optional connection to a BF318 Remote indicator
- ▶ 102.2mm diameter x 20.5mm deep



CA408 CAST Detector Base

CA408R CAST Relay Base with 30V 1A relay contacts

CAST Manual Call Points



Our LPCB certified CAST universal surface or flush mounting manual call point is no ordinary device.

With an onboard short-circuit loop isolator, a smooth-action resettable element that mimics the feel of breaking glass, a photo-luminescent operating window and a red LED 'alarm ring' that illuminates the call point's face upon activation, it is without doubt one of the most sturdy and reliable call points on the market.

Press anywhere in the call point's target area to signal an alarm and its red LED 'alarm ring' will illuminate to confirm the signal has been registered.

Easy to reset using the combined reset and back box removal key supplied, the CA470/CON includes a plug-on loop connector block that can take up to 2.5mm² fire rated cable.



The call point is supplied with a back box and a flush mounting adaptor plate making it ideal for use in surface or flush mount applications.

For applications that are open to the elements, the range also includes an IP67 rated manual call point (order code CA47067/CON).

Key Features

- ▶ Stylishly manufactured from red ABS polycarbonate and glass fibre
- ▶ LPCB certified to EN54-11 & 17 and Kiwa Telefication certified to EN54-13
- ▶ Includes an onboard short-circuit loop isolator
- ▶ Reflective yellow and black physical alarm flag appears at the bottom of the operating window when activated
- ▶ Includes a patented smooth-action resettable element that mimics the feel of breaking glass
- ▶ Soft addressed via a CAST fire panel or CAST handheld programmer - no awkward dip switches or plastic ID cards to contend with
- ▶ Optional transparent hinged cover protects against vandalism and accidental activation
- ▶ Unique red LED 'alarm ring' illuminates the face of the call point upon activation providing 170° visibility of an alarm condition
- ▶ Combined reset and back box removal tool supplied with all units
- ▶ All electronics designed and manufactured in the UK
- ▶ Photoluminescent operating window remains visible for up to 5 minutes in poor lighting conditions
- ▶ IP67 weatherproof version also available
- ▶ Available in a variety of colours

CAST Red Manual Call Point, Universal Mounting



- ▶ A stylish yet robust red manual call point
- ▶ LPCB certified to EN54-11 & 17 and Kiwa Telefication certified to EN54-13
- ▶ Surface or flush mountable (back box and surface adaptor box supplied)
- ▶ Onboard short-circuit loop isolator
- ▶ Smooth-action resettable element mimics the feel of breaking glass
- ▶ Supplied with reset/back box removal key
- ▶ Photo-luminescent operating window remains visible for up to 5 minutes
- ▶ 5mA typical alarm current (370µA typical quiescent) @ 22-40V DC
- ▶ IP42 rated
- ▶ 87 W x 88 H x D 62mm (includes back box)



CA470/CON

CAST Red Manual Call Point, Universal Mounting

CAST IP67 Rated Red Manual Call Point



- ▶ A stylish IP67 rated surface-mounting red manual call point
- ▶ Robust high-quality design
- ▶ LPCB certified to EN54-11 & 17 and Kiwa Telefication certified to EN54-13
- ▶ Onboard short-circuit loop isolator
- ▶ Smooth-action resettable element mimics the feel of breaking glass
- ▶ Supplied with reset/back box removal key and 'Not in Use' label
- ▶ Photo-luminescent operating window remains visible for up to 5 minutes
- ▶ 5mA typical alarm current (370µA typical quiescent) @ 22-40V DC
- ▶ 87 W x 88 H x D 72mm (includes back box)



CA47067/CON

CAST IP67 Rated Manual Call Point

Protective Call Point Cover



- ▶ A clear easy-to-fit protective plastic cover to help prevent the accidental activation of a CAST manual call point
- ▶ Simple hinged 'lift to operate' operation ensures the call point is easy to access in an emergency situation
- ▶ A range of 'call point stoppers' (pictured right) are also available to further guard against misuse, vandalism and nuisance alarms - contact our sales desk for details.



BF370SC

CAST Protective Call Point Cover

CAST Sounders & VADS

Utilising the latest advances in sounder and LED lens technology, our powerful CAST Sounders and Visual Alarm Devices are among the best performing on the market. Three types are available, all LPCB certified to EN54-3, 17 & 23 as appropriate.

'Base' – providing 92dB(A) sound output and C-3-8 VAD coverage - ideal for use as stand alone units or as part of a stacked sounder/VAD/detector base combination.

'Hi-Output' – a wall-mounting range with an impressive sound output of 100dB(A) and W-2.75-9 rated VAD coverage.

'Compact' – offering 96dB sound output and C-3-8 or W-3-3.1 coverage depending on how they are mounted.

All have incredibly low alarm current (5.5mA for sounder only variants; 14.5mA for sounder VAD variants.)

With a short circuit isolator in every device, four selectable volume levels, 31 selectable tones and a group addressing facility, it's no wonder they are fast becoming the fire alarm warning devices of choice for the fire industry.



Visual alarm devices are ideal for use in...

- ▶ Bedrooms and sleeping accommodation (in hotels, etc)
- ▶ Toilets (not just accessible WCs as the hearing impaired are also likely to use standard WCs)
- ▶ Areas where a deaf or hard of hearing person might be alone such as in stairwells, corridors & isolated offices
- ▶ Areas where people wear ear defenders
- ▶ TV, radio and recording studios, theatres & cinemas
- ▶ Areas where a gaseous extinguishing system is installed
- ▶ Areas where visual alarm devices are used as part of a "staged" fire evacuation strategy

CAST 92dB(A) Base Sounder



- ▶ LPCB certified to EN54-3 & 17 and Kiwa Telefication certified to EN54-13
- ▶ 4 selectable volume levels and 31 selectable tones
- ▶ Designed to be ceiling mounted - either stand-alone with a BF330CTLIDW white or BF330CTLIDR red cap or as part of a stacked Sounder/Detector Base combination
- ▶ Supplied with a BF431QCP quick connect plate and detector spur wires
- ▶ 5.5mA typical alarm current (460µA typical quiescent) @ 24-40V DC (Sounder on max.)
- ▶ IP21C (Type A) rated and measures 122mm diameter x 46mm deep



CA431A/W/CON CAST 92db(A) Base Sounder

CAST C-3-8 Base VAD c/w 92dB(A) Sounder



- ▶ LPCB certified to EN54-3, 17 & 23 and Kiwa Telefication certified to EN54-13
- ▶ Provides 'C-3-8' rated light distribution & 92dB(A) sound output @ 1m
- ▶ Designed to be ceiling mounted - either stand-alone with a BF330CTLIDW white or BF330CTLIDR red cap or as part of a stacked Sounder/VAD/Detector Base combination
- ▶ Supplied with a BF431QCP quick connect plate and detector spur wires
- ▶ 12.5mA typical alarm current (460µA typical quiescent) @ 27-40V DC (VAD lit, sounder on max)
- ▶ 4 selectable volume levels and 31 selectable tones
- ▶ IP21C (Type A) rated and measures 122mm diameter x 46mm deep



CA456A/W/CON CAST C-3-8 Base VAD c/w 92db(A) Sounder

CAST Hi-Output IP55C protected 100dB(A) Wall Sounder (deep base)



- ▶ LPCB certified to EN54-3 & 17 and Kiwa Telefication certified to EN54-13
- ▶ Impressive 100dB(A) sound output @ 1m
- ▶ Onboard short-circuit loop isolator
- ▶ 6.5mA typical alarm current (460µA typical quiescent) @ 24-40V DC (Sounder on max.)
- ▶ Group addressing facility allows multiple devices to be operated simultaneously
- ▶ 4 selectable volume levels and 31 selectable tones
- ▶ IP55C rated and measures 114mm diameter x 131mm deep



CA430A/DR/65/CON

CAST Hi-Output IP55C Protected 100dB(A) Wall Sounder (deep base)

CAST Hi-Output IP55C protected W-2.75-9 Wall VAD c/w 100dB(A) Sounder (deep base)



- ▶ LPCB certified to EN54-3, 17 & 23 and Kiwa Telefication certified to EN54-13
- ▶ Provides 'W-2.75-9' rated light distribution (also rated as a W-4-4 VAD)
- ▶ Impressive 100dB(A) sound output @ 1m
- ▶ Onboard short-circuit loop isolator
- ▶ 13.5mA typical alarm current (460µA typical quiescent) @ 27-40V DC (VAD lit, sounder on max)
- ▶ Group addressing facility allows multiple devices to be operated simultaneously
- ▶ 4 selectable volume levels and 31 selectable tones
- ▶ IP55C rated and measures 114mm diameter x 131mm deep



CA433A/DR/65/CON

CAST Hi-Output W-2.75-9 IP55C Wall VAD c/w 100dB(A) Sounder (deep base)

CAST Compact 96dB(A) Wall Sounder



- ▶ LPCB certified to EN54-3 & 17 and Kiwa Telefication certified to EN54-13
- ▶ Impressive 96dB(A) sound output @ 1m
- ▶ Onboard short-circuit loop isolator
- ▶ 5.5mA typical alarm current (460µA typical quiescent) @ 24-40V DC (Sounder on max.)
- ▶ Group addressing facility allows multiple devices to be operated simultaneously
- ▶ 4 selectable volume levels and 31 selectable tones
- ▶ IP21C (Type A) rated
- ▶ Measures 102mm diameter x 63mm deep



CA450A/SR/CON

CAST Compact 96dB(A) Sounder

CAST Compact C-3-8 Wall VAD c/w 96dB(A) Sounder



- ▶ LPCB certified to EN54-3, 17 & 23 and Kiwa Telefication certified to EN54-13
- ▶ Provides 'W-3-3.1' light distribution when wall mounted
- ▶ Can also provide 'C-3-8' light distribution when ceiling mounted
- ▶ Impressive 96dB(A) sound output @ 1m
- ▶ Onboard short-circuit loop isolator
- ▶ 12.5mA typical alarm current (460µA typical quiescent) @ 27-40V DC (VAD lit, sounder on max.)
- ▶ 4 selectable volume levels and 31 selectable tones
- ▶ IP21C (Type A) rated
- ▶ Measures 102mm diameter x 63mm deep



CA451A/SR/CON

CAST Compact C-3-8 Wall VAD c/w 96dB(A) Sounder

CAST-PRO Integrated Fire Detection & Alarm Devices (Compatible with ZFP only)



Proven false alarm reduction and protection from fire like never before – welcome to the future of fire detection and alarm devices.

Our new Context Plus CAST-PRO range of integrated fire detection & alarm devices offer heat, smoke and CO fire detection, plus a tone sounder or a voice sounder and a visual alarm device all in one unit.

Fully compatible with the Context Plus ZFP CAST touchscreen-controlled addressable fire panel and ENVISION Cloud-based data management, test and commissioning software, CAST-PRO gives you everything you need to satisfy the requirements of today's

complex multi-purpose buildings.

British-built and third-party certified to all relevant EN 54 product standards, CAST-PRO utilises some of the world's most advanced, innovative and patented technology to provide features and algorithms that adapt rapidly to changes in the environment to detect real fires quickly, reduce false alarms reliably and signal true fire alarm conditions decisively.

Improved protection, simplified installation and a reduced carbon footprint - CAST-PRO offers all this and more – at a very competitive price.

Read on to discover more.

Key Features

- ▶ Multiple functionality in a single device – CO fire, heat & smoke multisensor fire detection plus a 92db(A) tone Alarm sounder and a C-3-9.4 VAD
- ▶ Snap-in colour-coded ID inserts identify the exact device type
- ▶ Certified to EN54-3, 5, 7, 17, 23, 29 & 31 as indicated
- ▶ Compatible with the Context Plus ZFP touchscreen-controlled CAST protocol addressable fire panel.

Integrated detection and alarm functionality in one device means considerable time and cost savings on installation
- ▶ MASC™ (Miniature Advanced Smoke Detection Chamber) and AFFIRM™ algorithms provide incredible tolerance to false alarms whilst enhancing the detection of real fire conditions.
- ▶ Drift compensation functionality.
- ▶ Onboard short circuit loop isolator on every device
- ▶ Includes two 8mm x 2mm ultra-bright red LED indicating strips.
- ▶ Multiple detection modes
- ▶ Powerful 92dbA sound output with multiple EN54-3 certified alarm tones
- ▶ IP21C rated as standard – no need for additional gaskets
- ▶ Mounts on a standard Context Plus CAST CA408 electronics-free base with plenty of space for cable and connections and ingenious detector/base locking mechanism - e
- ▶ Fully SMT PCB with conformally coated components for maximum reliability,
- ▶ Transparent performance data available on request
- ▶ Programmable one device solution means no need to carry a multitude of spares on your van – simply configure a fully-loaded CAST-PRO device to work how you need it to.

CAST-PRO Fire Detection & Alarm Devices

CAST-PRO CO Fire + Smoke + Heat Multisensor c/w Tone Sounder



- ▶ A CO fire, smoke & heat multisensor fire detector with a 92db(A) tone Alarm sounder
- ▶ Certified to EN54-3, 5, 7, 17, 29 & 31.
- ▶ Compatible with Context Plus ZFP CAST protocol addressable fire panels.
- ▶ 32 Tone options
- ▶ 5.4mA max. alarm current (max volume).
- ▶ 630uA typical quiescent current @ 40V DC.



CP411T/CON CAST-PRO CO Fire + Smoke + Heat Multisensor c/w Tone Sounder

CAST-PRO CO Fire + Smoke + Heat Multisensor c/w Tone Sounder & C-3-9.4 VAD



- ▶ A CO fire, heat & smoke multisensor fire detector with a 92db(A) tone Alarm sounder and a C-3-9.4 VAD
- ▶ Certified to EN54-3, 5, 7, 17, 23, 29 & 31.
- ▶ Compatible with Context Plus ZFP CAST protocol addressable fire panels.
- ▶ 32 Tone options
- ▶ 13.2mA max. alarm current (max vol, VAD on).
- ▶ 630uA typical quiescent current @ 22-40V DC.



CP411TV/CON CAST-PRO CO Fire + Smoke + Heat Multisensor c/w Tone Sounder & C-3-9.4 VAD

CAST-PRO CO Fire + Smoke + Heat Multisensor c/w Voice Sounder



- ▶ A CO fire, smoke & heat multisensor fire detector with an 86db(A) voice sounder
- ▶ Certified to EN54-3, 5, 7, 17, 29 & 31.
- ▶ Compatible with Context Plus ZFP CAST protocol addressable fire panels.
- ▶ Six selectable voice messages with tones (2 evacuate, 1 alert, 1 all clear & 2 system test messages).
- ▶ 17.1mA max. alarm current (max vol, VAD on).
- ▶ 630uA typical quiescent current @ 40V DC.



CP411V/CON CAST-PRO CAST-PRO CO Fire + Smoke + Heat Multisensor c/w Voice Sounder

CAST-PRO CO Fire + Smoke + Heat Multisensor c/w Voice Sounder & C-3-9.4 VAD



- ▶ A CO fire, smoke & heat multisensor fire detector with an 86db(A) voice sounder and a C-3-9.4 VAD
- ▶ Certified to EN54-3, 5, 7, 17, 23, 29 & 31.
- ▶ Compatible with Context Plus ZFP CAST protocol addressable fire panels.
- ▶ Six selectable voice messages with tones (2 evacuate, 1 alert, 1 all clear & 2 system test messages).
- ▶ 24.9mA max. alarm current (max vol, VAD on).
- ▶ 630uA typical quiescent current @ 22-40V DC.



CP411V/CON CAST-PRO CO Fire + Smoke + Heat Multisensor c/w Voice Sounder & C-3-9.4 VAD

CAST-PRO Fire Detection & Alarm Devices

CAST-PRO Smoke + Heat Multisensor c/w Tone Sounder



- ▶ A smoke & heat multisensor detector with a 92db(A) tone Alarm sounder
- ▶ Certified to EN54-3, 5, 7, 17 & 29.
- ▶ Compatible with Context Plus ZFP CAST protocol addressable fire panels.
- ▶ 32 Tone options
- ▶ 5.4mA max. alarm current (max volume); 630uA typical quiescent current @ 40V DC.



CP414T/CON	CAST-PRO Smoke + Heat Multisensor c/w Tone Sounder
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CAST-PRO Smoke + Heat Multisensor c/w Tone Sounder & C-3-9.4 VAD



- ▶ A smoke & heat multisensor detector with a 92db(A) tone Alarm sounder and a C-3-9.4 VAD
- ▶ Certified to EN54-3, 5, 7, 17, 23 & 29.
- ▶ Compatible with Context Plus ZFP CAST protocol addressable fire panels.
- ▶ 32 Tone options
- ▶ 13.2mA max. alarm current (max vol, VAD on); 630uA typical quiescent current @ 22-40V DC.



CP414TV/CON	CAST-PRO Smoke + Heat Multisensor c/w Tone Sounder & C-3-9.4 VAD
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CAST-PRO Smoke + Heat Multisensor c/w Voice Sounder



- ▶ A smoke & heat multisensor detector with an 86db(A) voice sounder
- ▶ Certified to EN54-3, 5, 7, 17 & 29.
- ▶ Compatible with Context Plus ZFP CAST protocol addressable fire panels.
- ▶ Six selectable voice messages with tones (2 evacuate, 1 alert, 1 all clear & 2 system test messages).
- ▶ 17.1mA max. alarm current (max vol, VAD on); 630uA typical quiescent current @ 40V DC.



CP414V/CON	CAST-PRO Smoke + Heat Multisensor c/w Voice Sounder
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CAST-PRO Smoke + Heat Multisensor c/w Voice Sounder & C-3-9.4 VAD

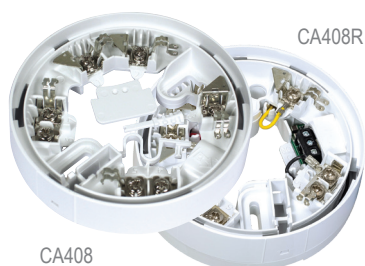


- ▶ A smoke & heat multisensor fire detector with an 86db(A) voice sounder and a C-3-9.4 VAD
- ▶ Certified to EN54-3, 5, 7, 17, 23 & 29.
- ▶ Compatible with Context Plus ZFP CAST protocol addressable fire panels.
- ▶ Six selectable voice messages with tones (2 evacuate, 1 alert, 1 all clear & 2 system test messages).
- ▶ 24.9mA max. alarm current (max vol, VAD on); 630uA typical quiescent current @ 22-40V DC.



CP414V/CON	CAST-PRO Smoke + Heat Multisensor c/w Voice Sounder & C-3-9.4 VAD
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CAST Detector Bases



- ▶ Compatible with our entire range of CAST & CAST-PRO addressable detectors
- ▶ Can be ceiling mounted in any orientation due to the true 360° degree viewing angle of the LED indicator strips on all CAST detectors
- ▶ Integrated detector/base locking mechanism, head removal tool and ID tag
- ▶ Remote LED terminals for optional connection to a BF318 Remote indicator

CA408/CON	CAST Detector Base
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CA408R/CON	CAST Relay Base with 30V 1A relay contacts
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CAST Interfaces

Want to expand your Context Plus CAST addressable fire alarm systems to work with third party systems or peripheral equipment? Our extensive range of interfaces are just the job!

All offer lower current consumption (3mA to 7mA dependent on model), include onboard polling LEDs and can be located anywhere on a CAST loop.

Double gang variants mount on 25mm back boxes.



CAST Input Output Module



- ▶ LPCB certified to EN54-17 & 18 and Kiwa Telefication certified to EN54-13
- ▶ Incorporates the functions of a switch monitor, zone monitor & output unit
- ▶ Can be configured to monitor any combination of:-
 - Up to 20 conventional ActiV fire detectors & 10 manual call points
 - Any normally open switch with an EOL resistor fitted
- ▶ Onboard short-circuit loop isolator
- ▶ 5.5mA typical alarm current (1.3mA typical quiescent) @ 22-40V DC
- ▶ Indicators for Loop polling, input faults and relay status
- ▶ Can switch 1A@30V DC (or 0.3A@125V AC)
- ▶ Includes volt free changeover contacts that can be used to trigger rollershutter doors, gas shut-off valves, smoke vents, etc.
- ▶ Mountable on a standard UK 25mm double gang back box (not supplied)



CA730/CON	CAST Input Output Module
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CAST Mains Switching Input Output Module



- ▶ LPCB certified to EN54-17 & 18 and Kiwa Telefication certified to EN54-13
- ▶ A mains-switching version of our CA730 input output module
- ▶ Capable of switching 5A @ 230 VAC or 5A @ 30 VDC.
- ▶ Incorporates the functions of a switch monitor, zone monitor and output unit
 - Up to 20 conventional ActiV fire detectors & 10 manual call points
 - Any normally open switch with an EOL resistor fitted
- ▶ Onboard short-circuit loop isolator
- ▶ 6mA typical alarm current (1.7mA typical quiescent) @ 22-40V DC
- ▶ Indicators for Loop polling, input faults and relay status
- ▶ Includes volt free changeover contacts that can be used to trigger rollershutter doors, gas shut-off valves, smoke vents, etc.
- ▶ Mountable on standard UK 25mm double gang back box (not supplied)



CA731/CON	CAST Mains Switching Input Output Module
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CAST Interfaces

CAST Zone Monitor Module



- ▶ LPCB certified to EN54-17 & 18 and Kiwa Telefication certified to EN54-13
- ▶ A single-zone addressable Zone Monitor capable of supporting up to 20 conventional ActiV fire detectors and 10 manual call points
- ▶ Onboard short-circuit loop isolator
- ▶ 4mA typical alarm current (1.1mA typical quiescent) @ 22-40V DC
- ▶ Indicators for Loop polling, input faults and relay status
- ▶ Alternatively, can be used as general purpose input monitor
- ▶ Mountable on an NCP-26 surface box or a standard UK 25mm double gang back box (not supplied)



CA732/CON CAST Zone Monitor

CAST Single Way Sounder Control Module



- ▶ Allows a zone/circuit of conventional fire alarm sounders and visual alarm devices to be connected to a CAST compatible fire alarm system
- ▶ Includes an onboard short circuit isolator
- ▶ Conventional sounder circuit is continually monitored for open and short circuit faults
- ▶ 3mA typical alarm current (530µA typical quiescent) @ 22-40V DC
- ▶ Can provide up to 50mA output current (taken from the CAST addressable loop)
- ▶ Polling, sounder circuit active and sounder circuit fault indicators
- ▶ Mounts on an NCP-26 surface box or a standard UK 35mm double gang back box

CA738/CON CAST Single Way Sounder Control Module

CAST 4 Way Sounder Controller (expandable to 8 ways)



- ▶ A powerful 4 way CAST sounder control unit supplied in a robust plastic enclosure
- ▶ Provides four 12.5mA constant current conventional sounder circuits (expandable to 8 ways using a CA739PCB)
- ▶ Includes connections for an optional CA739PSU to accommodate larger alarm loads
- ▶ Includes an onboard short circuit loop isolator
- ▶ Uses one loop address per 4 sounder circuits
- ▶ Measures 380 W x 235 H x 96 D mm
- ▶ 4mA typical alarm current (1.5mA quiescent) @ 22-40V DC

CA739/CON CAST 4-Way Sounder Controller (expandable to 8 ways using a CA739PCB)

Notes



Context
Plus



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