

CAST Mains Switching Input Output Module

Part No. **CA731**



Overview

- A mains-switching input output module with volt free changeover contacts that can be used to trigger rollershutters, door locking mechanisms, gas shut-off valves, smoke vents and more.
- Capable of switching 5A @ 230 V AC or 5A 30V DC.
- Incorporates the functions of a switch monitor, zone monitor and output unit.
- Can be configured to monitor any combination of the following:-
 - Up to 20 conventional detectors and 10 MCPs.
 - Any normally open switch with an EOL resistor fitted.
 - A simple normally open or closed switch (non-fault monitored).
- Onboard short-circuit loop isolator.
- 6mA typical alarm current (1.7mA typical quiescent current) @ 22-40V DC.
- Indicators for Loop polling, input faults and relay status.
- LPCB certified to EN54-17 & 18 and Kiwa Telefication & DBI certified to EN54-13.
- Also certified to the relevant parts of EN54 with Swedish certification body SBSC.
- Mountable on a C-TEC NCP-26 surface box or a standard UK 25mm double gang back box (not supplied).



More Information

'CAST' is the world's most-advanced 'distributed intelligence' fire alarm system protocol. Conceived, designed and realised by C-TEC, it involved the creation of a powerful proprietary communication protocol (C-TEC Addressable System Technology, CAST) and multiple control panels & field devices. 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) via our CAST-PRO devices. • Volumes, tones & detector modes can be changed at compatible panels. • High-speed data transmission and robust data transfer. • Intrinsically EN54-13 compliant. • Geographical location of short and open circuit faults (a short circuit isolator is included as standard in every CAST field device). • Replace device function. • 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	Certified by SBSC to the relevant parts of EN54, DBI certified to EN54-13, LPCB certified to EN54-17 & 18 and Kiwa Telefication certified to EN54-13
Compatibility	Compatible with C-TEC's XFP/ZFP CAST Addressable Fire Panels.
Application/operation	Incorporates the functions of a switch monitor, zone monitor and mains-switching output unit in one device.
Supply/operating voltage	22 to 40V DC.
Quiescent current	1.7mA typical.
Activation current	6mA @ 22 to 40V DC.
Auxiliary relays	One volt-free single pole changeover relay rated at 5A @ 230V AC or 5A @ 30V DC. Non-monitored. Clean contact.
Auxiliary inputs	One monitored input that can be set to operate as: (1) a single zone monitor to support up to 20 ActiV detectors and 10 MCPs or (2) a monitored normally-open switch, triggered by a 470R.
Indicators	Active (Lit Red): relay activated; monitored zone triggered or monitored switch closed; Polling (Flashing Red): communication check with the panel; Input Fault (Lit Yellow): fault detected
Connections	Six 45° screw-type connectors that can take 0.5-2.5mm ² cable: +Ve & -Ve Loop In; +Ve & -Ve Loop Out; Zone +Ve & -Ve. Also includes N/O, N/C & C relay connections.
Product dimensions (mm)	147 W x 87H x 22 D mm. Can be mounted on a standard 25mm UK flush or surface double gang back box.
Construction & finish	ABS Polycarbonate plate with a 200 micron two-tone grey velvet polyester label with red and white detailing.
IP Rating	IP40 when correctly installed.
Weight	122g.
Operating conditions/temperature	-10°C to +55°C.