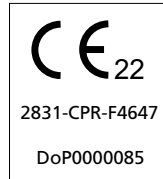
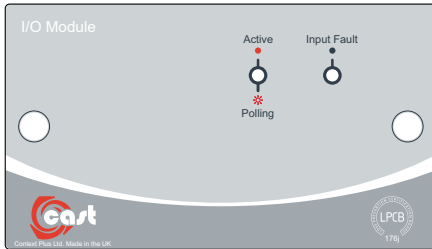


# CA730/CON ADDRESSABLE I/O MODULE INSTALLATION INSTRUCTIONS



## Product Description

The CAST CA730/CON addressable Input/Output (I/O) module is compatible with Context Plus's CAST ZFP & CAST XFP fire panels and other CAST compatible fire panels. The I/O module has the following features:

- Fully compliant with EN 54-17 and EN 54-18.
- Programmed and addressed via the fire panel (including auto addressing) or using a CAPROG handheld programmer.
- On-board, bi-directional, short-circuit loop isolator (SC-Isolator).
- Double-gang back box mounting.
- Incorporates a single volt-free, single pole, change-over relay output (non-monitored).
- A single zone monitor to support up to 20 ActiV detectors and ten MCPs. Alternatively, can be used as a single switch monitor. EOLs are supplied.

## Operation

When a fire alarm is triggered on the monitored zone, the I/O module sends a signal to the fire panel. Depending upon programming, the fire panel then returns a signal to the I/O module to change state on the clean contact relay output. The I/O module monitors the following inputs: open circuit fault, short circuit fault, fire, normal and detector head out (if detector base has a diode fitted). The I/O module also incorporates a relay output.

## Installation



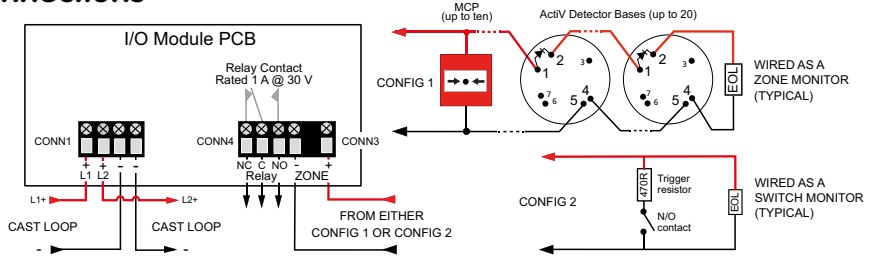
**CAUTION:** Components, such as capacitors, are exposed on the PCB. Take extreme care not to damage or dislodge any components when handling or wiring to the unit.

Ensure the I/O modules are installed in accordance with applicable local and/or national regulations.

The I/O module is designed for indoor use only and may be flush or surface mounted in a place where the status of the LED indicators are clearly visible.

Two mounting holes are provided on the I/O module for fixing to a standard UK double-gang back box with minimum 25 mm depth.  
**DO NOT OVERTIGHTEN THE FIXING SCREWS.**

## Connections



Terminal (CONN1)	Function
L1 +	+Ve
L2 +	+Ve
-	-Ve
-	-Ve

- All wiring must conform to local and/or national regulations.
- Correct polarity must be observed.
- CA730/CON terminals can accept 0.25 mm<sup>2</sup> to 2.5 mm<sup>2</sup> wiring.
- 470R trigger resistor (supplied) and EOL capacitor (supplied). Ensure EOL capacitor is fitted across the terminals of the last device on the conventional zone.

## Technical Specification

<b>Description:</b>	CA730/CON Addressable I/O Module
<b>Certified Standards:</b>	EN 54-18:2005; EN 54-17:2005
<b>LPCB Certificate Number:</b>	176j *
<b>LPCB Reference Number:</b>	176j/02 *
<b>CPR Certificate Number:</b>	2831-CPR-F4647 *
<b>Declaration of Performance (DoP):</b>	DoP0000085 *
<b>Communication Protocol:</b>	CAST
<b>Operating Voltage:</b>	22-40 Vdc (loop powered)
<b>Quiescent Current (Typical):</b>	1.3 mA
<b>Active Current (Typical):</b>	< 5.5 mA
<b>Zone Input (CONN3):</b>	Single monitored input with 2 modes of operation: either, a single zone monitor, to support up to 20 ActiV detectors and ten MCPs with EOL or, a monitored normally-open switch, triggered by a 470R with EOL.
<b>Relay Output (CONN4):</b>	Single volt-free, single pole, changeover relay (NC/C/NO), non-monitored. Clean contact, rated 1 A @ 30 V. <b>Note:</b> In exposed environments, this device may be subject to mechanical shocks which are likely to occur, albeit infrequently, in the anticipated service environment. Sufficient anti-glitch protection should be taken to ensure a temporary changeover of the relay contacts, of up to 1 sec, does not activate connected equipment. In non-exposed environments, such protection may not be necessary.
<b>LED Indicators:</b>	Active (Steady Red) - relay activated; monitored zone triggered or monitored switch closed. Polling (Flashing Red) - communication check with the fire panel. Input Fault (Steady Yellow) - a fault detected on the monitored zone/switch.
<b>Dimensions (WxHxD):</b>	147 x 87 x 22 mm (without a back box)
<b>Weight:</b>	122 g (without a back box)
<b>IP Rating (EN 60529):</b>	IP40 (indoor use only)
<b>Body Material:</b>	PVC
<b>Operating Temp.:</b>	-10°C to +55°C
<b>Humidity:</b>	Max. 95% RH (non-condensing)

\* Certificates and DoPs available for download on Context Plus's website

### EN 54-17 SC-Isolator Specification (Controllable Isolator)

<b>Maximum Loop Voltage (V max):</b>	40 Vdc
<b>Nominal Loop Voltage (V nom):</b>	40 Vdc
<b>Minimum Loop Voltage (V min):</b>	22 Vdc
<b>Maximum Current Device Isolates, switches from closed to open (I<sub>so</sub> max):</b>	55 mA
<b>Minimum Current Device Isolates, switches from closed to open (I<sub>so</sub> min):</b>	15 mA
<b>Maximum Rated Continuous Current with switch closed (I<sub>c</sub> max):</b>	1 A
<b>Maximum Rated Switching Current under short circuit conditions (I<sub>s</sub> max):</b>	1.6 A
<b>Maximum Leakage Current with switch open (I<sub>l</sub> max):</b>	20 µA
<b>Maximum Series Impedance with switch closed (Z<sub>c</sub> max):</b>	100 mohms

Context Plus Ltd, Progress House, Newby Industrial Estate, Newby Road, Hazel Grove, Stockport, SK7 5DA, United Kingdom. E&OE. No responsibility can be accepted by the manufacturer or distributors of these devices for any misinterpretation of this instruction, or for the compliance of the system as a whole. The manufacturers policy is one of continuous improvement and we reserve the right to make changes to product specifications at our discretion and without prior notice.