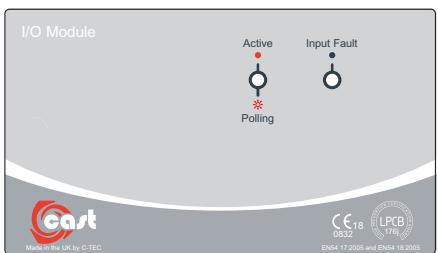


CA730 ADDRESSABLE I/O MODULE INSTALLATION INSTRUCTIONS



Product Description

The CAST CA730 addressable Input/Output (I/O) module is compatible with C-TEC's CAST ZFP/XFP 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



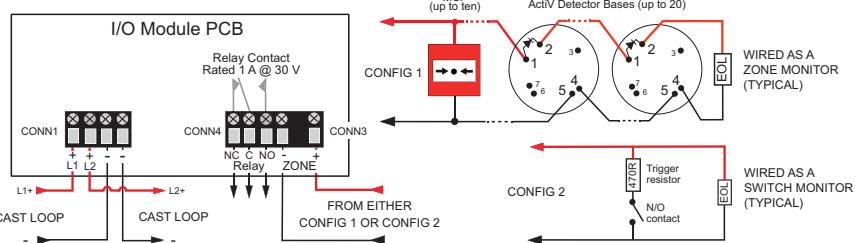
CAUTION: Components, such as capacitors, are exposed on the PCB. Take extreme care not to damage or dislodge any components when handling or wiring to the unit.

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 35 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 terminals can accept 0.25 mm² to 2.5 mm² 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

Description:	CA730 Addressable I/O Module		
Certified Standards:	EN 54-18:2005; EN 54-17:2005		
LPCB Certificate Number:	176j *		
LPCB Reference Number:	176j/02 *		
CPR Certificate Number:	2831-CPR-F1382 *		
UKCA Certificate Number:	0832-UKCA-CPR-F0791 *		
Declaration of Performance (DoP):	DoP0000048 *		
Communication Protocol:	CAST (C-TEC)		
Operating Voltage:	22-40 Vdc (loop powered)		
Quiescent Current (Typical):	1.9 mA		
Active Current (Typical):	6.7 mA		
Active Current (Max):	7.8 mA		
Zone Input (CONN3):	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.		
Relay Output (CONN4):	Single volt-free, single pole, changeover relay (NC/C/NO), non-monitored. Clean contact, rated 1 A @ 30 V. Note: 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.		
LED Indicators:	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.		
Dimensions (WxHxD):	147 x 87 x 22 mm (without a back box)		
Weight:	122 g (without a back box)	Body Material:	PVC
Operating Temp.:	-10°C to +55°C	Humidity:	Max. 95% RH (non-condensing)
IP Rating (EN 60529):	IP40 when correctly installed (NOT APPROVED)		

* Certificates and DoPs available for download on C-TEC's website @ www.c-tec.com

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

Maximum Loop Voltage (V max):	40 Vdc
Nominal Loop Voltage (V nom):	40 Vdc
Minimum Loop Voltage (V min):	22 Vdc
Maximum Current Device Isolates, switches from closed to open (Iso max):	55 mA
Minimum Current Device Isolates, switches from closed to open (Iso min):	15 mA
Maximum Rated Continuous Current with switch closed (Ic max):	1 A
Maximum Rated Switching Current under short circuit conditions (Is max):	1.6 A
Maximum Leakage Current with switch open (Il max):	20 µA
Maximum Series Impedance with switch closed (Zc max)	100 mohms



Manufacturer: Computationics Limited (C-TEC), Challenge Way, Martland Park, Wigan, Lancashire WN5 0LD. www.c-tec.com
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.