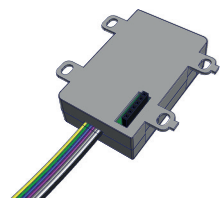


# CA734 MINI IO MODULE

## INSTALLATION INSTRUCTIONS



### Product Description



The CAST CA734 Mini IO Module is loop powered and compatible with C-TEC's CAST ZFP/XFP panels and other 'CAST' compatible fire panels. The module incorporates a monitored switch input and a changeover relay output.

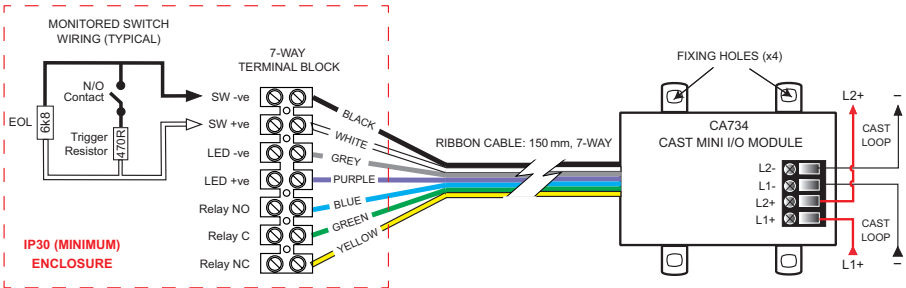


Its compact design allows it to fit into equipment with limited space.

The module has the following features:

- Fully compliant with EN 54-17 and EN 54-18.
- Programmed and addressed via the fire panel, or CAST Hand-Held Programmer (Part No. CAPROG).
- On-board, bi-directional, short-circuit loop isolator (SC-Isolator).
- Monitored switch input.
- Changeover relay and fire LED outputs.
- Levels reportable to the panel from the input: normal, fire, S/C fault and O/C fault.
- 2 levels issuable from the panel to the output: active and normal.
- Module supplied with a 7 way ribbon cable (150 mm length), 7 way terminal block, trigger resistor and EOL resistor.

### Connections



CA734 Loop Terminal	Function
L1 +	+Ve
L2 +	+Ve
L1 -	-Ve
L2 -	-Ve

- All wiring must conform to local and/or national regulations.
- Correct polarity must be observed.
- CA734 loop terminals can accept 0.25 mm<sup>2</sup> to 2.5 mm<sup>2</sup> wiring.
- 7-way terminal block (supplied) can accept up to 1.5 mm<sup>2</sup> wiring < 3 m length.
- 470R trigger resistor (supplied) and 6k8 EOL resistor (supplied) for monitored switch. EOL device and terminal block must be fitted inside a suitable enclosure with a minimum IP30 rating (not supplied).

### Installation

Ensure the module is installed in accordance with applicable local and/or national regulations. The module may be surface fixed using suitable screws (not supplied) in the four fixing holes. The mounting enclosure is also designed to be mounted in a secondary unit such as a single gang back box.

**Note:** Cables connected to the 7-way terminal block must be less than 3 metres in length.

### Technical Specification

<b>Description:</b>	CA734 Mini IO Module
<b>Certified Standards:</b>	EN 54-18: 2005 (Input Output Devices); EN 54-17: 2005 (Short-circuit isolator)
<b>LPCB Certificate Number:</b>	176j/01 *
<b>CPR Certificate Number:</b>	2831-CPR-F2049 *
<b>UKCA Certificate Number:</b>	0832-UKCA-CPR-F0790 *
<b>Declaration of Performance (DoP):</b>	DoP0000059 *
<b>Communication Protocol:</b>	'CAST' (C-TEC)
<b>Operating Voltage:</b>	22-40 Vdc (loop powered)
<b>Quiescent Current (Typical):</b>	1 mA
<b>Active Current (@Vmin):</b>	5.7 mA (Typical); 6.7 mA (Max)
<b>Fault Current (@Vmin):</b>	5.3 mA (Typical); 6.3 mA (Max)
<b>Input:</b>	Single monitored, normally-open switch (SW -ve, SW +ve) triggered by a 470R with 6k8 EOL resistor.
<b>Outputs:</b>	One single-pole, changeover relay (C/NO/NC), non-monitored. Relay rating: 1 A @ 30 Vdc or 0.3 A @125 Vac. <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. Single 2-wire fire LED drive output (LED -ve, LED +ve).
<b>LED Indicators:</b>	Single Red (Relay Active & Polling). Single Yellow (Monitored Input Fault).
<b>Body Material:</b>	Clear ABS polycarbonate enclosure
<b>Dimensions:</b>	65 mm x 60 mm x 20 mm (excluding terminal block & ribbon cable)
<b>Weight:</b>	47 g (including terminal block & ribbon cable)
<b>IP Rating (EN 60529):</b>	IP40
<b>Operating Temp.:</b>	-10°C to +55°C
<b>Humidity:</b>	Maximum 95% RH (non-condensing)

\* Certificates and DoPs available for download on C-TEC'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



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