

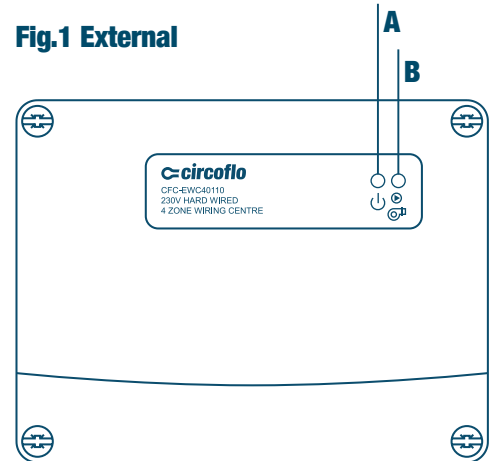
OVERVIEW

This device is a connection box for 4-zone heating systems supplied from a 230V~ power supply. This device controls up to 4 outputs for actuators and thermostats; each output can drive one thermostat and its actuator. Two interlock outputs are available: one for a pump (230V~ powered terminals) and one for boiler interlock (voltage free contacts). Moreover the unit allows the connection of an external time switch for global control of the four zones.

The wiring centre is equipped with a 4A time delayed fuse (**F1**) which protects the wiring centre itself as well as the loads connected to it. There are two LEDs on the device front panel, shown in **Fig. 1**:

- Green “POWER ON” LED, marked as **(A)**.
- Red LED to indicate “BOILER/PUMP ON”, marked as **(B)**; when at least one actuator is energised by its thermostat both pump and boiler contacts close (red LED on the front cover turned on).

Fig.1 External



OPERATION

When at least one thermostat connected to the wiring centre is calling for heat, the device immediately activates the boiler output, the relevant channel output and the pump output. These outputs are all immediately turned off when no thermostat is calling for heat.

Note: Actuator opening time will depend on manufacturer specification.

TECHNICAL FEATURES

Power supply: 230V~ ±10% 50Hz
Absorption: Depends on the loads connected
Fuse (F1): 4A Time delayed
Pump output: 230V~
Boiler output: Voltage free contact
Therm./actuators outputs: 230V~
Time prog. output (optional): 230V~

CONTACTS RATING

- **Pump:** 5A 250V~ SPDT
- **Boiler:** 1A 250V~ SPDT
- **Actuators and thermostats:** 4x1A 250V~

MAXIMUM APPLICABLE LOAD

- **Actuators and thermostats:** 3A Total 1A each channel

INDICATORS

- **Voltage presence:** Green LED
 - **Boiler and pump activation:** Red LED
- Protection index:** IP 30
Operating temp.: 0 .. 40 °C.
Storage temp.: -10 .. 50 °C
Humidity limits: 20% .. 80% RH (non condensing)

CASE

Material: ABS UL-Vo self-extinguishing
Colour: Signal white (RAL 9003)
Dimensions: 130 x 100 x 60 mm (L x A x P)

NORMATIVE REFERENCES

The product conforms to the following standards (EMC 2014/30/UE and LVD 2014/35/UE):
 EN 61000-6-1 (2007)
 EN 61000-6-3 (2007)
 EN 60335-1 (2012)

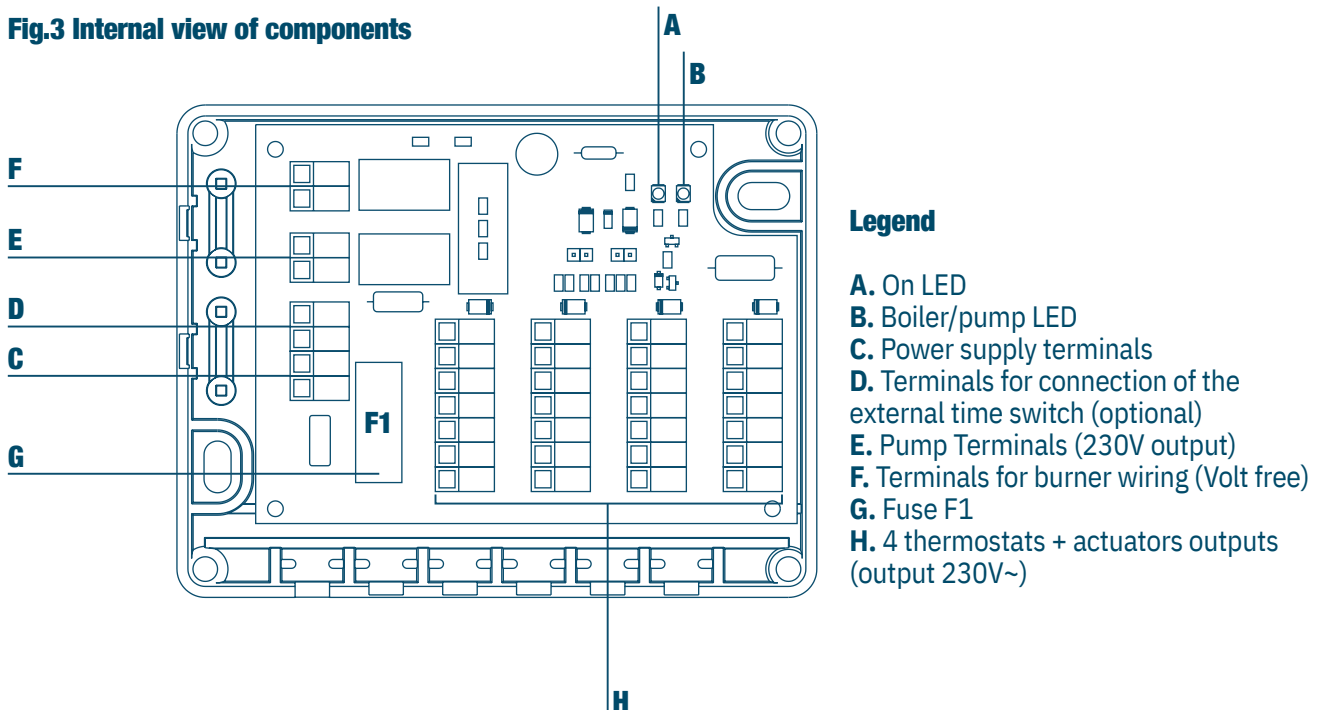
TIMESWITCH INPUT

The two terminals (see item **(D)**, **Fig. 3**) allow the installer to connect an external timeswitch which will enable global time control of all 4 zones.

This timeswitch, when connected to terminal **SWL**, will energise the supply to terminal **<SwL** on each channel on when the timeswitch is in an 'on' period set by the user, alternatively when connected to terminal **NSB**, the timeswitch will then energise terminal **NSB** on each channel when the timeswitch is in an 'off' period set by the user.

When connected to a suitable setback thermostat from this terminal, the thermostat operates at the normal temperature set by the user when the timeswitch is in an 'on' period and a lower temperature usually set by the installer when the timeswitch is in an 'off' period

Fig.3 Internal view of components



Legend

- A. On LED
- B. Boiler/pump LED
- C. Power supply terminals
- D. Terminals for connection of the external time switch (optional)
- E. Pump Terminals (230V output)
- F. Terminals for burner wiring (Volt free)
- G. Fuse F1
- H. 4 thermostats + actuators outputs (output 230V~)