

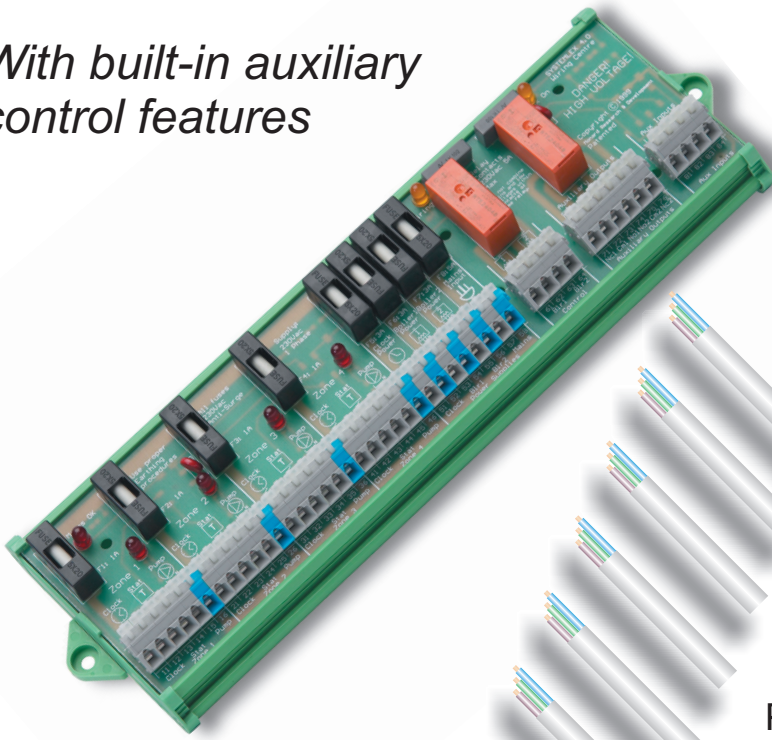
# SystemLex

PATENTED

systemlink

ENERGY SAVING SOLUTIONS

*With built-in auxiliary control features*



## *The Easy Way To Wire*

*Up to **four** heating zones and **two** boilers*

BOILERS  
CLOCKS  
THERMOSTATS  
POWER SUPPLY  
PUMPS  
BOILER POWER

- Eliminates the complexities associated with wiring zoned heating
- Pre-fused power supply with independently fused zones
- Easy to understand
- Push fit wiring
- Numbered and clearly identified wiring terminals
- Built-in indicator lights to identify power, zone and boiler call
- Eliminates boiler dry-cycling
- Compliant with current building regulations
- Automatically fires boiler when any zone calls
- Clearly identifies terminals for clock and thermostat connections

# SystemLex Central Heating Wiring Control Center

SystemLex is a pre-configured electronic wiring center that connects the controls (clocks and thermostats), pumps and boilers together in a logical and easy to understand way. SystemLex does all the complex cross wiring for the installer - all that is left is to connect the system elements direct to the board.

SystemLex is pre-configured to automatically fire the boiler(s), only when one or more time/temperature zone controls call for heat.

Wiring external to the SystemLex printed circuit board MUST be in accordance with the current regulations and any manufacturer's instructions that apply. The power supply must be 230Vac ~ 50Hz.

Devices attached to SystemLink MUST be properly earthed. A fused double-pole switch, with at least 3mm (1/8") contact separation in both poles, serving only the SystemLex panel should be used.

Zones 1-4: four sets of terminals, to which external time and temperature controls may be attached, fused at 1 amp. The LEDs on the board show which zone elements are operating and help make fault diagnosis easy.

All neutral terminals are cross connected on the board with preinstalled tracks.

Power Supply: one set of terminals for electrical mains supply connection fused at 5amps (57, 58).

A general control power supply to facilitate use of a multi-zone clock, fused at 3amps (51, 52).

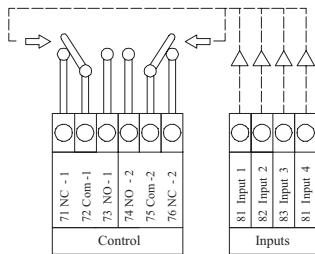
Two sets of terminals for power supply connection to the boilers, fused at 3amps (53, 54 and 55, 56).

Control: two sets terminals to provide either Switched or Voltage-Free control to boilers (61, 62 and 63, 64).

Auxiliary Outputs: two sets of auxiliary Output Relay terminals to facilitate auxiliary functions (71, 72, 73 and 74, 75, 76).

Auxiliary Input: four auxiliary input terminals (81, 82, 83, 84) to receive 230Vac supplies, any one of which will cause the auxiliary double-pole relay to switch contacts, without back feeding to any other input.

## Operation of Auxiliary Relay

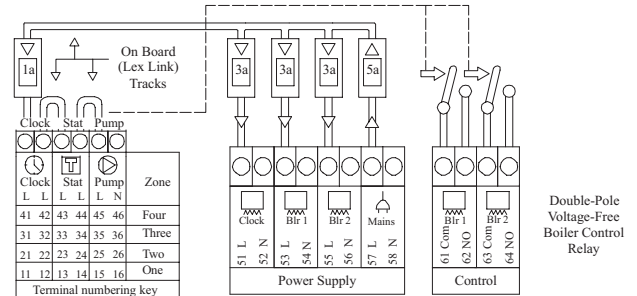


The Auxiliary relay is an optional control opportunity that works independently of the boiler control relay. Applying mains to any auxiliary input (81, 82, 83, or 84) will operate the double-pole auxiliary relay contacts but will not back feed to other auxiliary inputs.

## Technical Data

Supply .....	230Vac 5A 50Hz 1 Phase
Zones .....	4
Main Relay Rating .....	DPNO 5A
Boilers .....	2
Boiler Supply .....	2
Clock Supply .....	1
Auxiliary Inputs .....	4
Auxiliary Outputs .....	DPCO 5A
Operating Temperatures .....	0 - 50°C
Enclosure Rating .....	IP20
Main Fuse .....	230Vac 5A T Anti-surge
Boiler/Clock Fusing .....	230Vac 3A T Anti-surge
Zone Fuses .....	4 of 230Vac 1A T Anti-surge
Zone Call Indicators .....	4
Mains Supply Indicators .....	1
Boiler Call Indicators .....	1
Auxiliary Call Indicators .....	1
Transient Suppression .....	Yes
Terminals .....	2.5mm-Sq.
Coil/Contact Creepage / Clearance .....	8mm / 8mm*

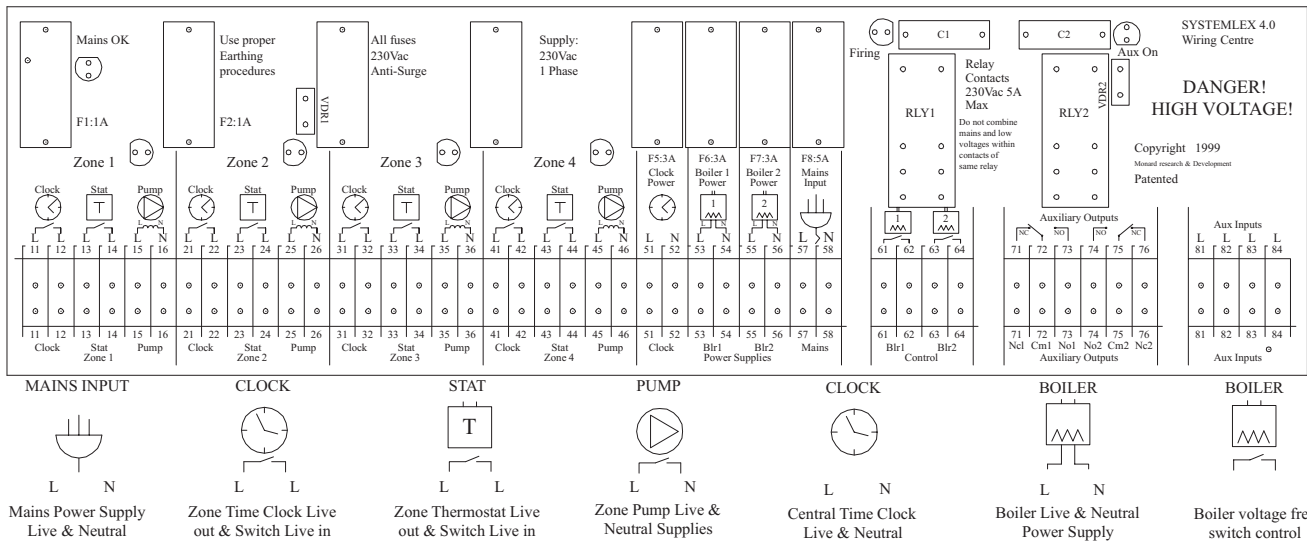
The Boiler Control Relay works independently of the Auxiliary Relay. When any zone control call provides mains to its zone 'Stat' input (14, 24, 34, or 44) the boiler control will operate the double-pole relay contacts to switch on the boiler but will not back feed to other zones' controls or pumps.



- Neutral Connection for all zone control Equipment
- Pump Control Switch Live
- Temperature Control Call Input
- Output from Time Control to Zone Stat
- Time Control Call Input
- Fused (1amp) Permanent Live to all Zone Controls

\* Note:

Under no circumstances should high and low voltage circuits be conducted through contacts on the same relay, as this would not comply with the clearances (minimum distance between switching contacts) specified by IE and international wiring regulations. If a control is required on a circuit of different voltage to the primary circuit, the auxiliary relay or a separate external relay should be used.



Due to product development, certain design elements and specifications may change on an ongoing basis

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