

SMARTCOM² CONTROL PANEL & STANDARD / HERRINGBONE RADIANT.



Section

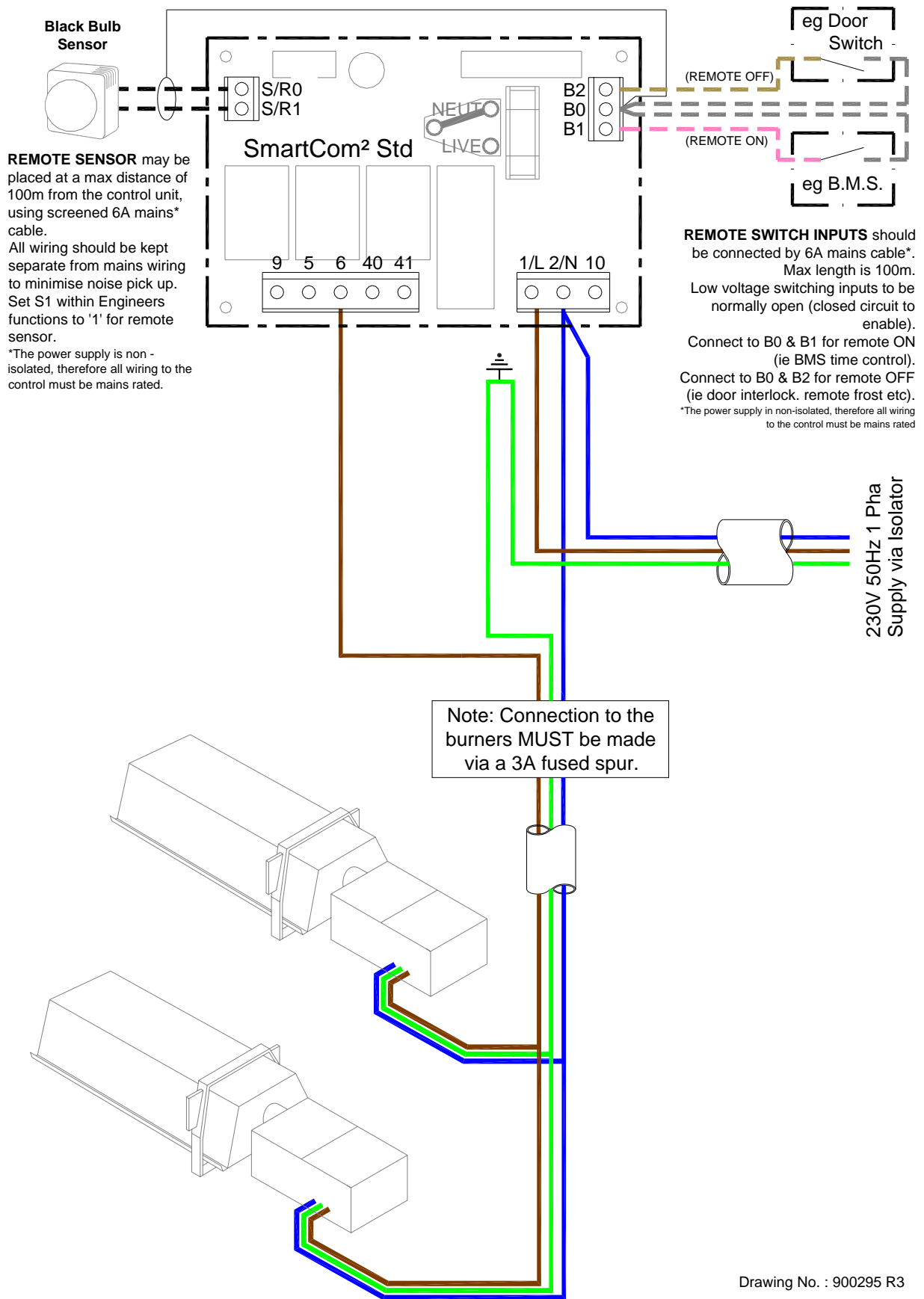
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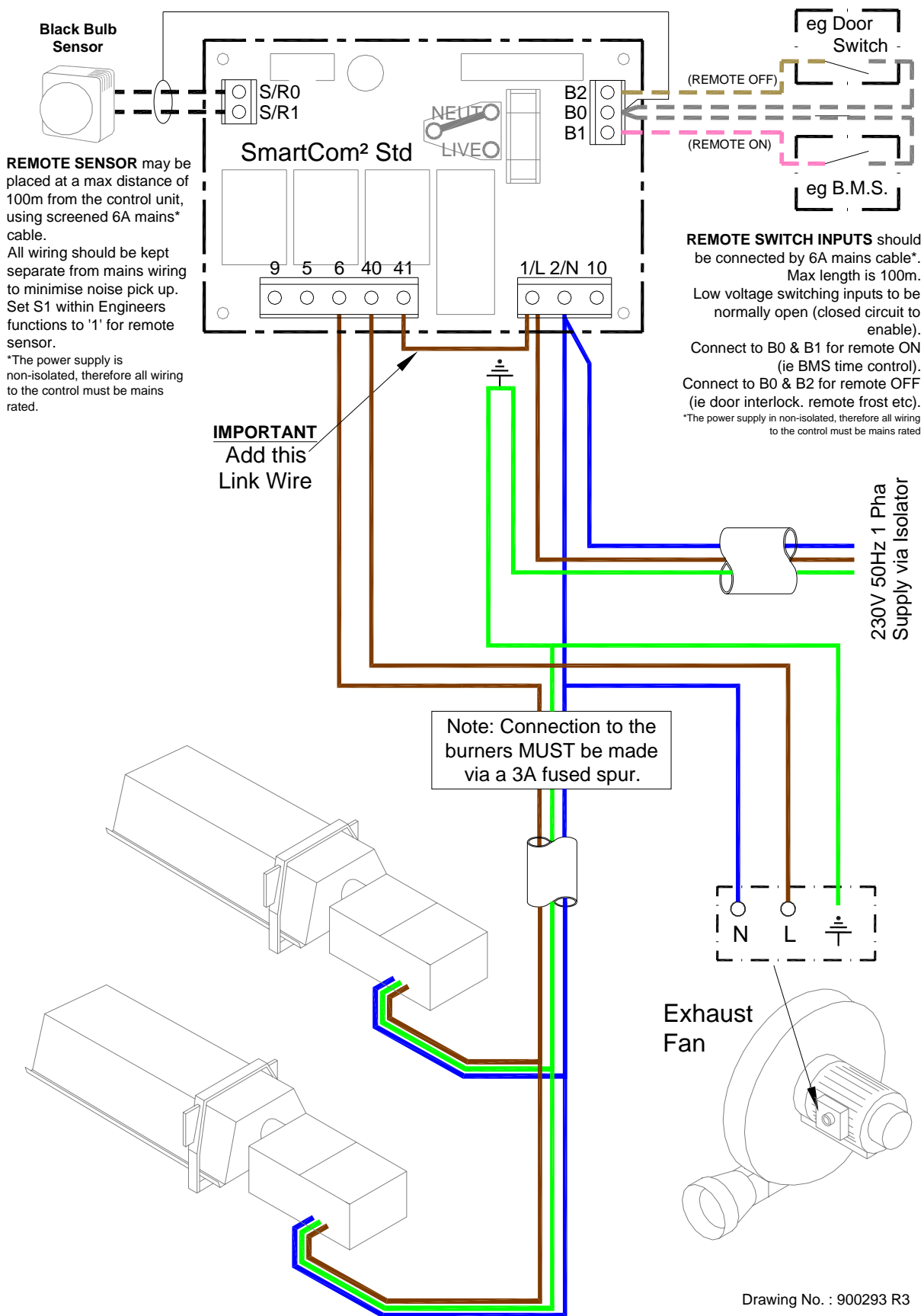
Warnings

All external wiring **MUST** comply with the current IEE wiring regulations. These instruction **MUST** be used in conjunction with the SmartCom user manual and the appropriate heater manual.

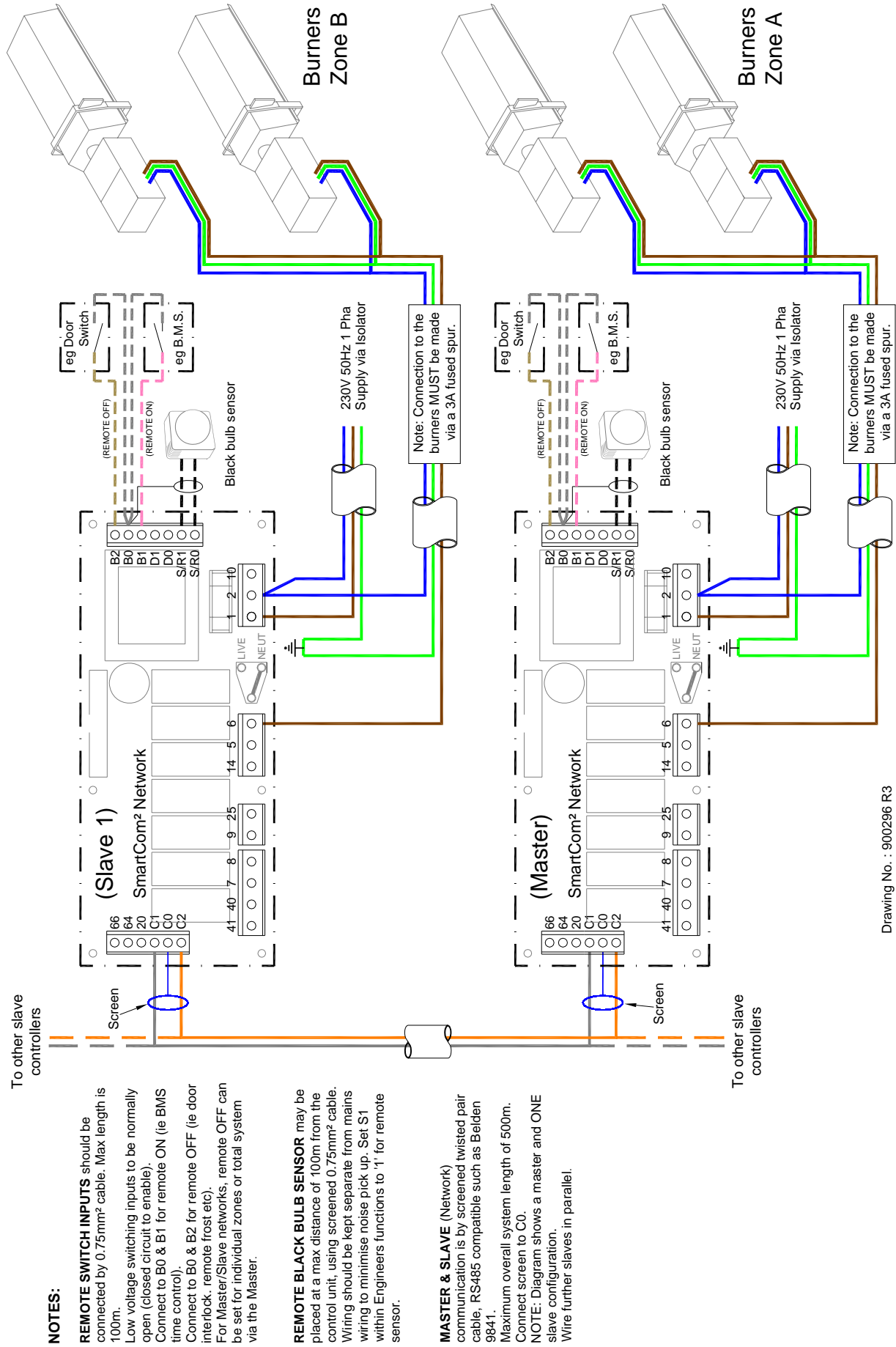
1 Single Zone Standard Radiant Systems.



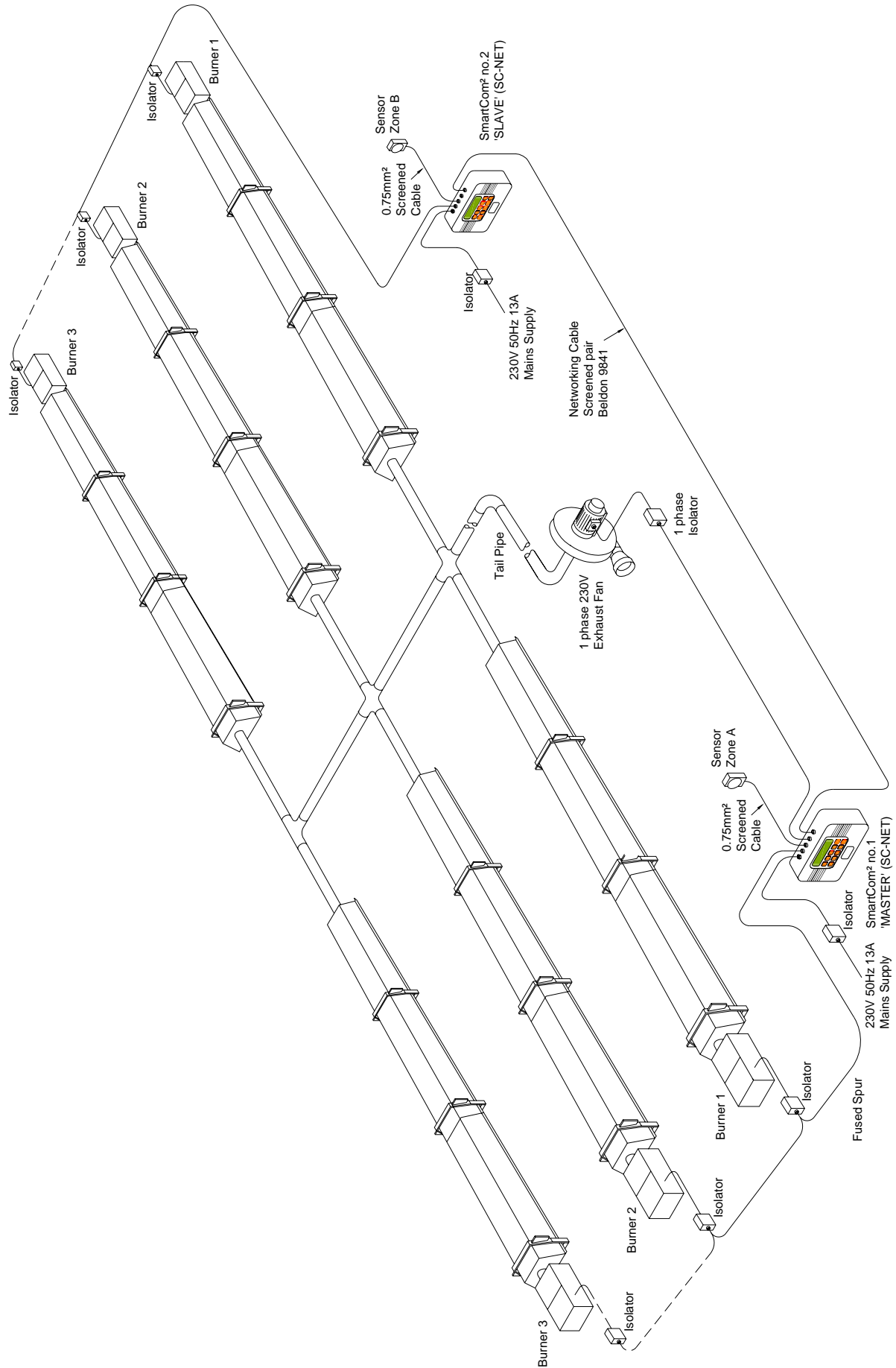
2 Single Zone Herringbone Fan Systems.



3 Multizone Standard Radiant Systems.



5 Schematic Two Zone Herringbone System





6 SmartCom² Radiant Commissioning.

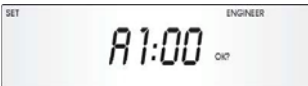




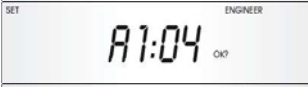


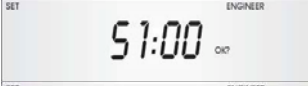


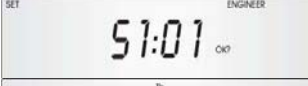




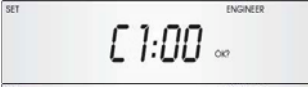





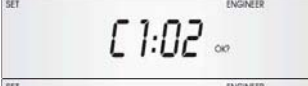


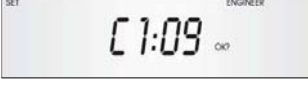


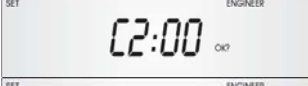


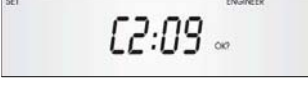



For ease and swiftness of initial start-up, the SmartCom² range of electronic controllers is supplied factory pre-set to default settings as described in the SmartCom² Installation and User Manual ref GB/SCOM/120/1206 section 4.

The controllers will therefore operate immediately with standard **Warm Air Unit** heaters or **Singular Radiant** heating systems without the need for on-site programming.

However, if either multi-zone Radiant, single or multi-zone Herringbone or single or multi-zone Nor-Ray-Vac systems are to be operated along with a Black Bulb Sensor, then the engineers' settings will have to be modified.

Follow these step by step instructions below to correct. For more detailed instructions and other engineer settings, refer to the SmartCom² User Manual GB/SCOM/120/1206.

- 1 Press & hold  button whilst pressing  button once to obtain engineers codes

step	actions	description	main screen view	further actions
2		Screen display changes (default Warm Air).		& press  to modify A1
3a	either press 	twice for radiant. Screen display =		
3b	OR press 	4 times for Multi Radiant. Screen display =		& press  to accept A1
4	press 	6 times screen display changes. (internal sensor)		& press  to modify S1
5	press 	once for Black Bulb sensor. Screen display =		& press  to accept S1
6a	either press 	to exit settings & return to main screen (or 6b)		
6b	OR press 	twice for Multi Zone system. Screen display =		& press  to modify C1
7a	either press 	once for 'MASTER' unit. Screen display =		& press  to accept C1
7b	OR press 	twice for Slave No.1. Screen display =		& press  to accept C1
7c	OR press 	up to 15 times for others. e.g. slave 9, display =		& press  to accept C1
Each zone must have a unique zone number. It is not possible to have two controllers with the same zone number. Zone numbers must be consecutive.				
8a	press 	once for highest communication no. Screen display=		& press  to modify C2
8b	press 	For the no. of SmartCom's e.g. 9, display =		& press  to accept C2
If the number is set incorrectly then either a higher numbered zone will fail to communicate or a lower numbered zone may display a communication error on the master unit.				
9	press 	to exit settings & return to main screen		

Notes:

MASTER & SLAVE (NETWORK)

When setting up a SmartCom² Master and Slave (Network) system, the master controller will display an error message during commissioning. This will clear once the commissioning is complete.

REMOTE SWITCHED INPUTS

SmartCom² controllers can be operated remotely via a remote ON or a remote OFF signal in the following ways:

A. Building Management System Control (BMS).

SmartCom² controllers can be operated via a BMS system, by applying a volt free connection (ie closed circuit to enable) across terminals B1 and B0 turns the system on. Making this connection on a master controller will turn the entire system on whereas making this connection on a slave unit will only bring on that zone.

1. BMS Controlling Time only.

Ensure all the programmed ON times in the SmartCom² are turned off (i.e. They read “- :-”).

2. BMS Controlling Time and Temperature.

Ensure all the programmed ON times in the SmartCom² are turned off (i.e. They read “- :-”). Set all the required day temperatures to 30°C.

B. Remote Door Interlock

SmartCom² controllers can be connect to a door interlock, remote frost stat or permanent off switch via terminals B2 and B0. When a volt free connection is provided (ie closed circuit to enable) at these terminals, the controller reverts to a FROST ONLY mode.

Refer to the individual wiring diagrams for wiring configurations and type.



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