SRS door entry systems

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Multi Entrance door entry system - *installation instructions*

IN9432 20040121

Introduction

Thank you for choosing this SRS door entry system. This door entry system has been made with care to meet your requirements. Please read the power supply instructions in conjunction with these instructions. The power supply instructions (IN9307 for audio, IN9008V2 for video) will help you understand the standard SRS system which is essential information before tackling this more complicated installation.

Note

Please take care when choosing which diagram to follow since the 9432 relay can be used both audio and video door entry installations.

When using 9432 multi-entrance relay(s) with the SRS 9008V2 video psu please ensure that the resistor marked R6 on the 9432 (raised off the PCB) is cut from the circuit cleanly. This resistor is ONLY required in multi-entrance audio only systems.

9432 Overview

(Multi Entrance Relay)

a The 9432 relay is designed to allow multiple entrances to be have common connection to groups of audio or video house phones. On its own the 9432 is a two entrance relay. A call from PS on entrance A will connect the cable from the telephones to the cable from entrance A, and vice versa (entrance B). A call confirmation tone will be heard at the calling entrance panel.

b The connection will remain for 20 seconds or for as long as the phone is off the hook (if answered within 20 seconds).

c If a visitor makes a call from another entrance they will hear an engaged tone. The busy function is transferred between many 9432 relays by connecting the I (inhibit) terminal.

d Each entrance has its own changeover relay contacts for lock release, controlled by the timer on the 9307.

e The connected entrance is indicated by a LED on the circuit board and with 12v dc outputs (terminal EA and terminal EB). These outputs (max. 20mA) may be used to light LED's on the phone module AN7346L2, which has 2 LEDs for use with a single 9432 relay. For more entrances use AN8346L4, AN7346L6 or AN7346L8 for 4 entrance, 6 entrance or 8 entrances respectively.

f If you require Trades Button on multi entrance systems, use the 9432TSS module (supplied) which extends the capabilities of the 9432.

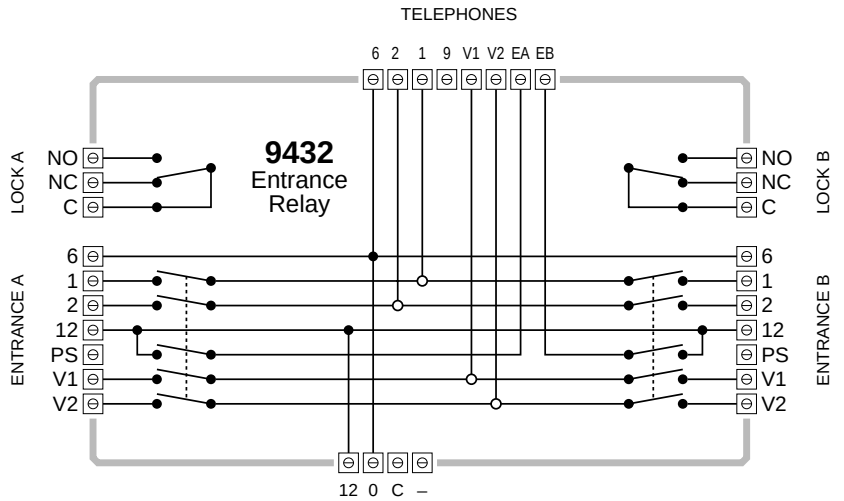
More than 2 entrances?

If fitting a system with more than one 9432 relay you should:

a allow one 9307 power supply per 9432 entrance relay.

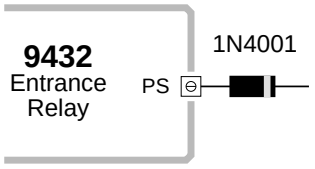
b Only use the call tone from one power supply for the whole system

c link multiple 9432s using the I, C, 0V, 12V terminals to provide a common bus.



Troubleshooting

Call tone can be heard during speech



If you experience a tone on the audio add a diode in series with the PS terminal of each entrance on the 9432 relay.

CE Requirements

This product was tested for compliance with EC directive 89/336/EEC with the panel connected to Mains Earth.

Always ensure that external metal parts are independently connected to mains protective earth to avoid electrical shock hazard.

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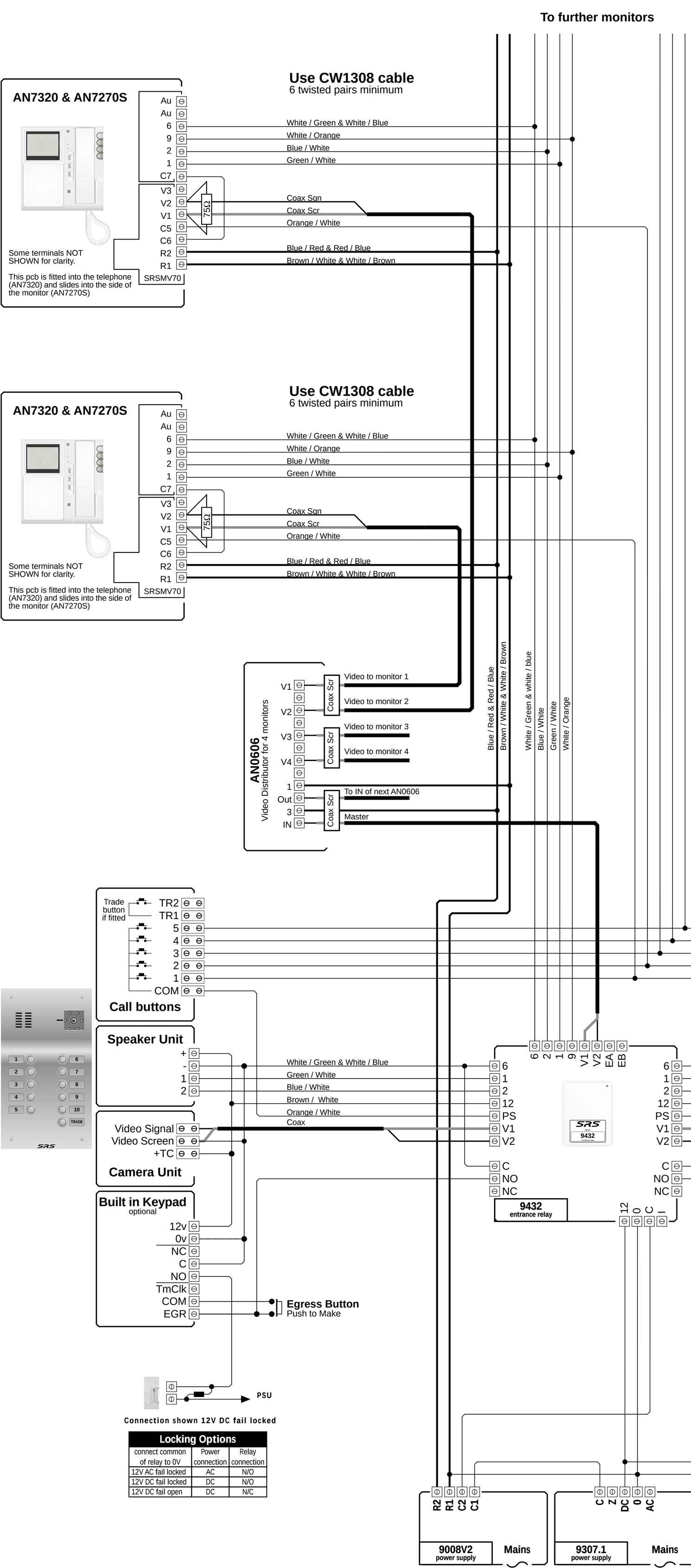
Drawing Reference	2D nM 2E /14 D						21.1.04
	Video Diagram	Monitors	Entrances	1 keypad	Distributor		Date

Two entrance (with Trades button) video door entry system - calling n monitors with video distribution



Locking Options		
connect common of relay to 0V	Power connection	Relay connection
12V AC fail locked	AC	N/O
12V DC fail locked	DC	N/O
12V DC fail open	DC	N/C

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Installation Notes:

Ignore dashed wires if not required.

Locking Note
Always fit the Tranzil (lock suppressor) supplied.

Cable Requirements
Make connections as per diagram in order to avoid interference. CW1308 telephone cable is suitable for distances up to 200 metres. For longer cable runs you should increase the dimensions of the cores according to the chart.

Trm	Wire Function	metres 100	200	300
1	Loudspeaker	0.5	0.5	0.8
2	Microphone	0.5	0.5	0.8
6	Common -ve	0.8	0.8	1.0
9	Lock release	0.5	0.5	0.8
C7	Call tone	0.5	0.5	0.8
R1	monitor power (-ve)	1.0	1.5	2.5
R2	monitor power (18v)	1.0	1.5	2.5

Diameter of conductors mm

Please Note
TWO wires for terminal 6 of the telephone. White / Green & White / Blue are shown.
This is intentional and should be followed for best results.

9432 entrance relay
When current is drawn from PS (entrance A or B) the relay will latch to the calling entrance for approx. 20 seconds or the duration of the call (whichever is longer). The other entrance, if calling, will hear an engaged tone.

Site the power supply (9307) close to the relay (9432).

Spare buttons
Two push buttons are available for other functions (eg. opening a second lock) marked Au/Au & Q1/Q1. These are both push to make momentary switches.

1/2 terminal
The 1/2 terminal is a connection which can be used instead of terminal 1. If you are experienceing feedback (and you are sure it not a connection problem) then the 1/2 terminal is used to half the volume of the telephone earpiece. Use with caution

Optional keypad
The programmable keypad is an option which when ordered can be built into the panel or supplied as a separate unit.