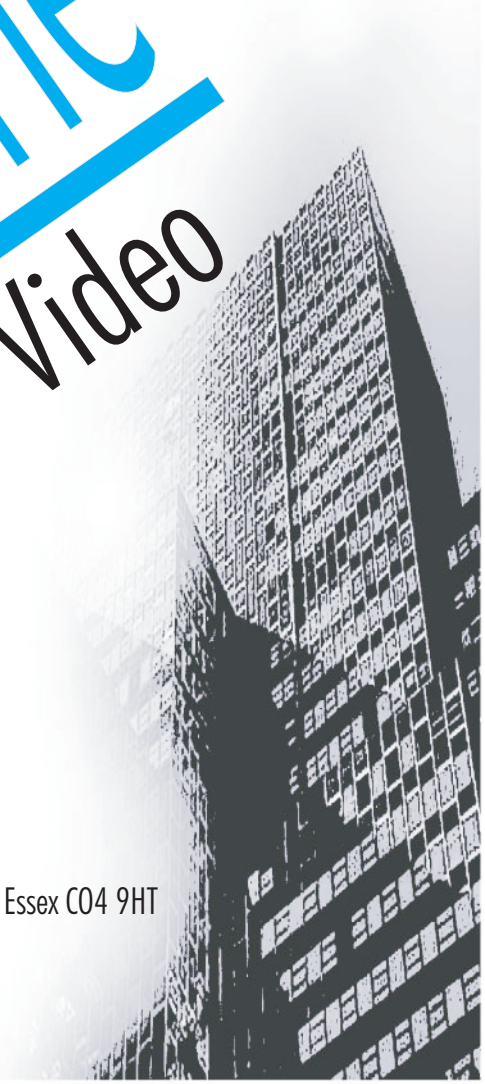
SelectLine

Economy functional & digital audio access systems

Video 8 & 16
Functional
Installation Manual

Selectline
Functional Video



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Functional Video
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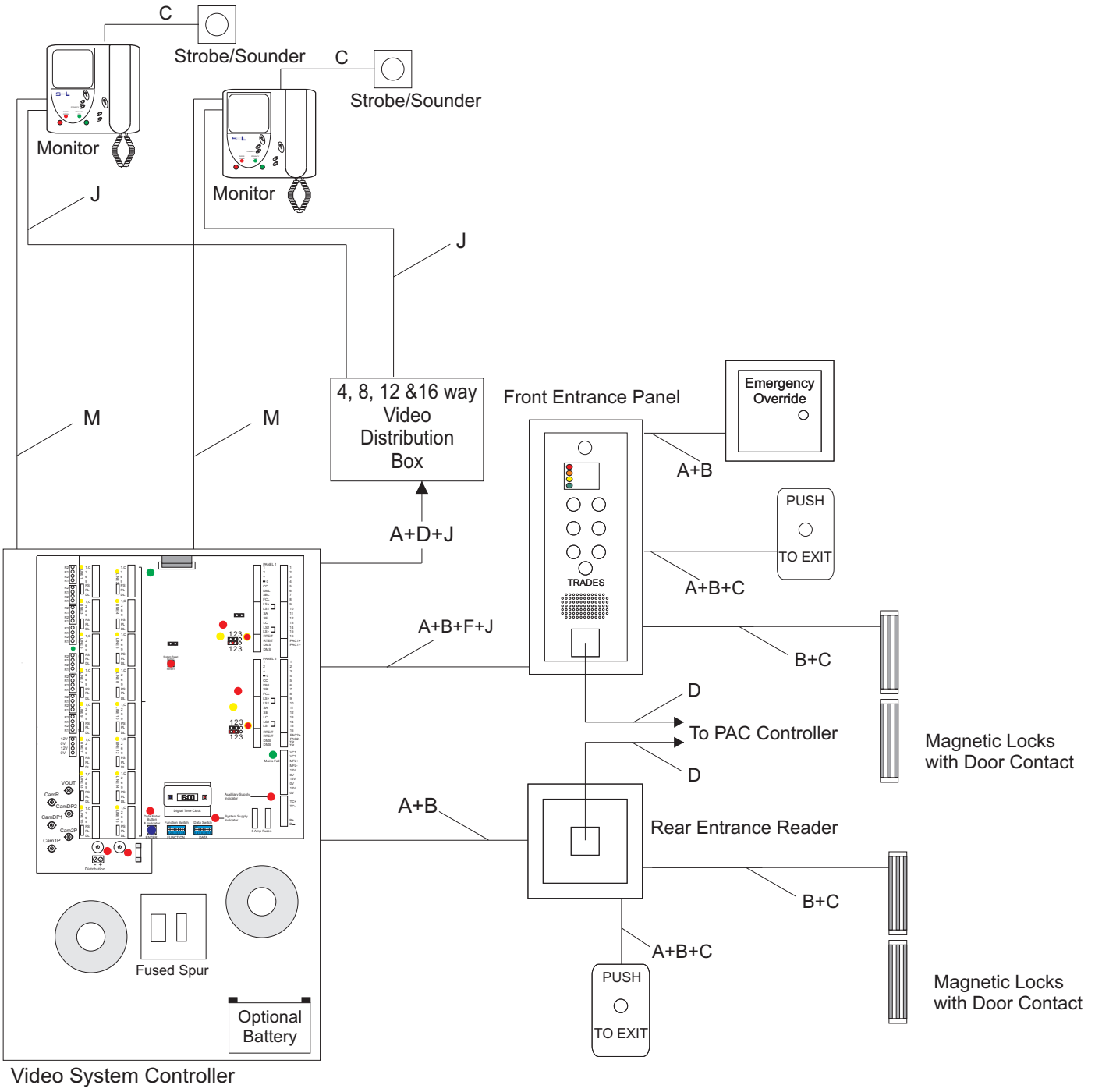
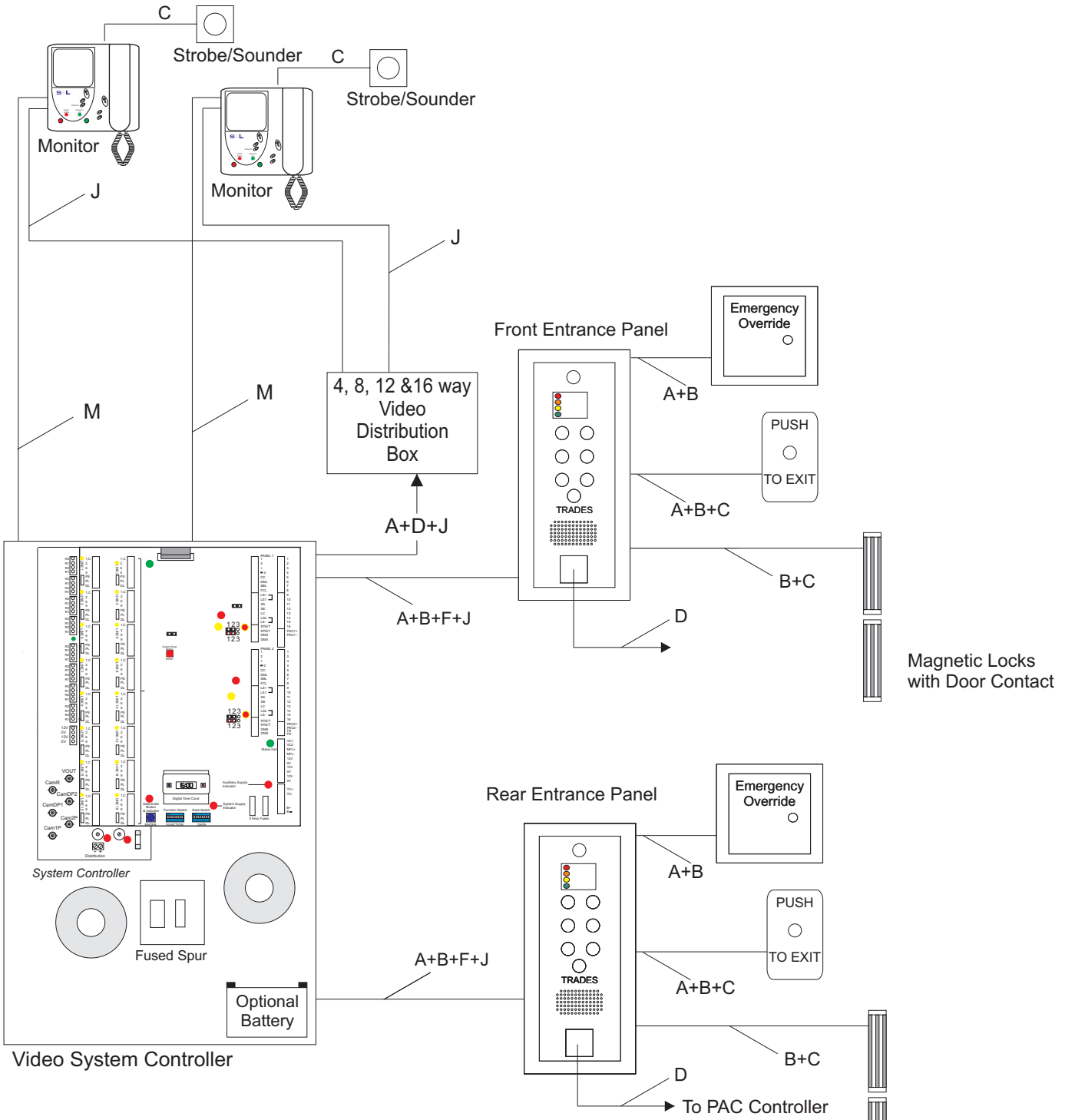
Functional Video Systems

Functional Video System Overview with a PAC Reader Rear Entrance



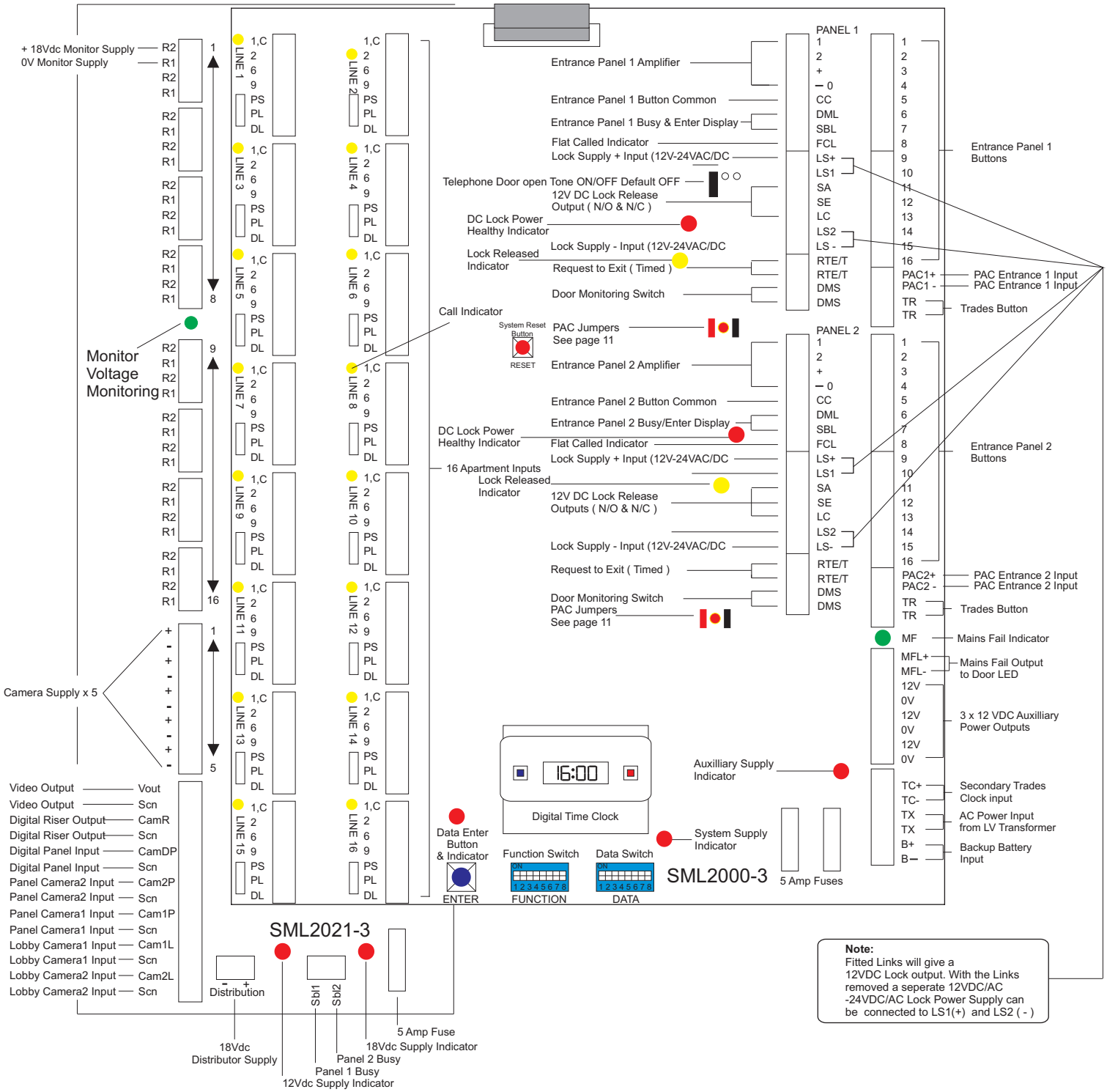
A - Single Earth	2.5mm Mains Type Cable (Continuity)
B - 2 Wire (1 Pair)	1mm Mains Type Cable (Lock Power)
C - 2 Wire (1 Pair)	CW1308 0.5mm dia Multipair Cable (Minimum)
D - 8 Wire (4 Pair)	CW1308 0.5mm dia Multipair Cable (Minimum)
F - 30 Wire (15 Pair)	Cw1308 0.5mm dia Multipair Cable (Minimum)
M -12 Wire (6 Pair)	CW1308 0.5mm dia Multipair Cable (Minimum)(PAC Reader) Cable up to 100 Metres
J - COAX Cable	Rg59 75 Ohm Coax Cable

Functional Video System with Two Entrances with PAC Overview

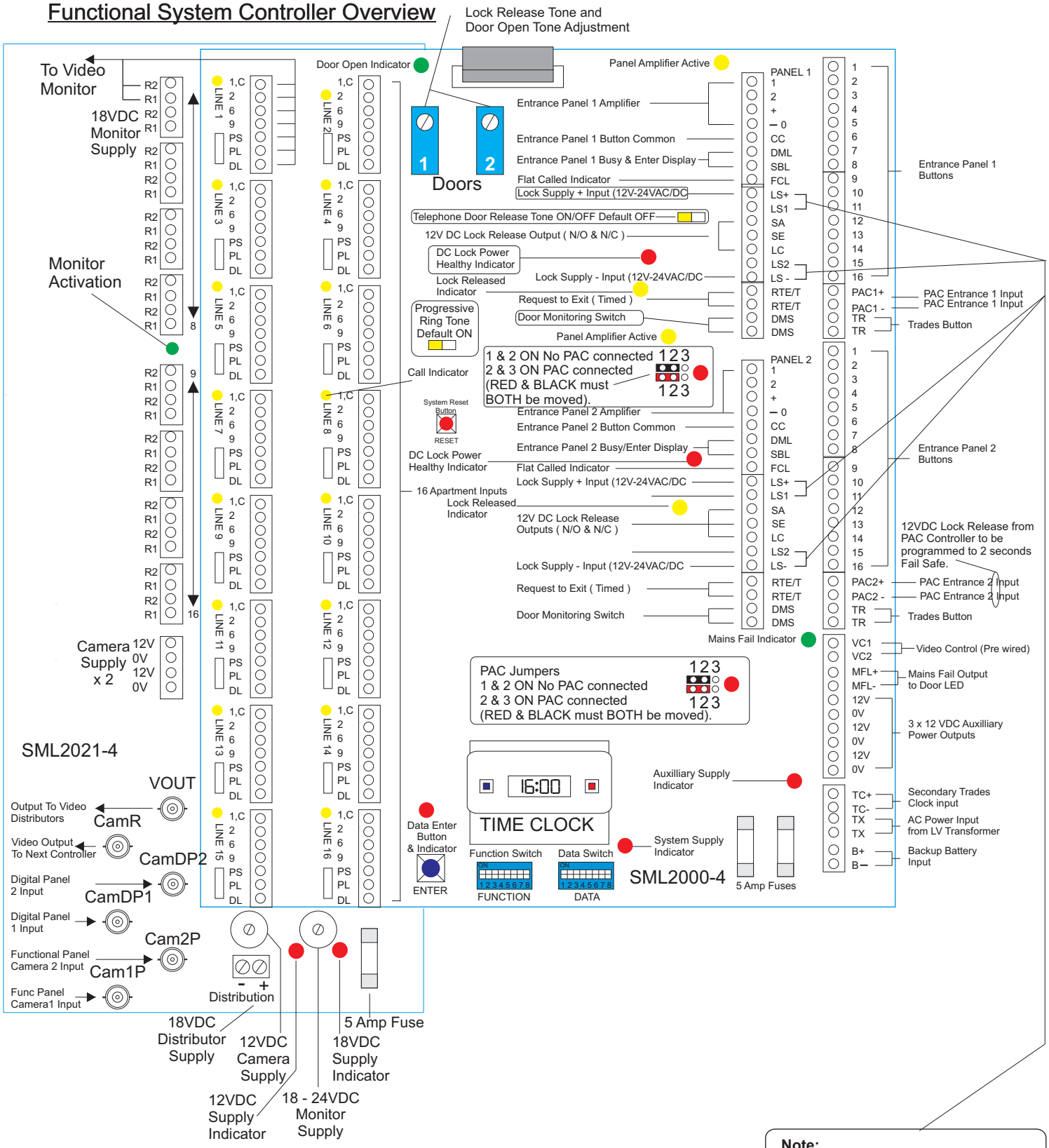


A - Single Earth	2.5mm Mains Type Cable (Continuity)
B - 2 Wire (1 Pair)	1mm Mains Type Cable (Lock Power)
C - 2 Wire (1 Pair)	CW1308 0.5mm dia Multipair Cable (Minimum)
D - 8 Wire (4 Pair)	CW1308 0.5mm dia Multipair Cable (Minimum)
F - 30 Wire (15 Pair)	CW1308 0.5mm dia Multipair Cable (Minimum)
M -12 Wire (6 Pair)	CW1308 0.5mm dia Multipair Cable
J - Coax Cable	RG59 Coax Cable

Functional System Controller Overview

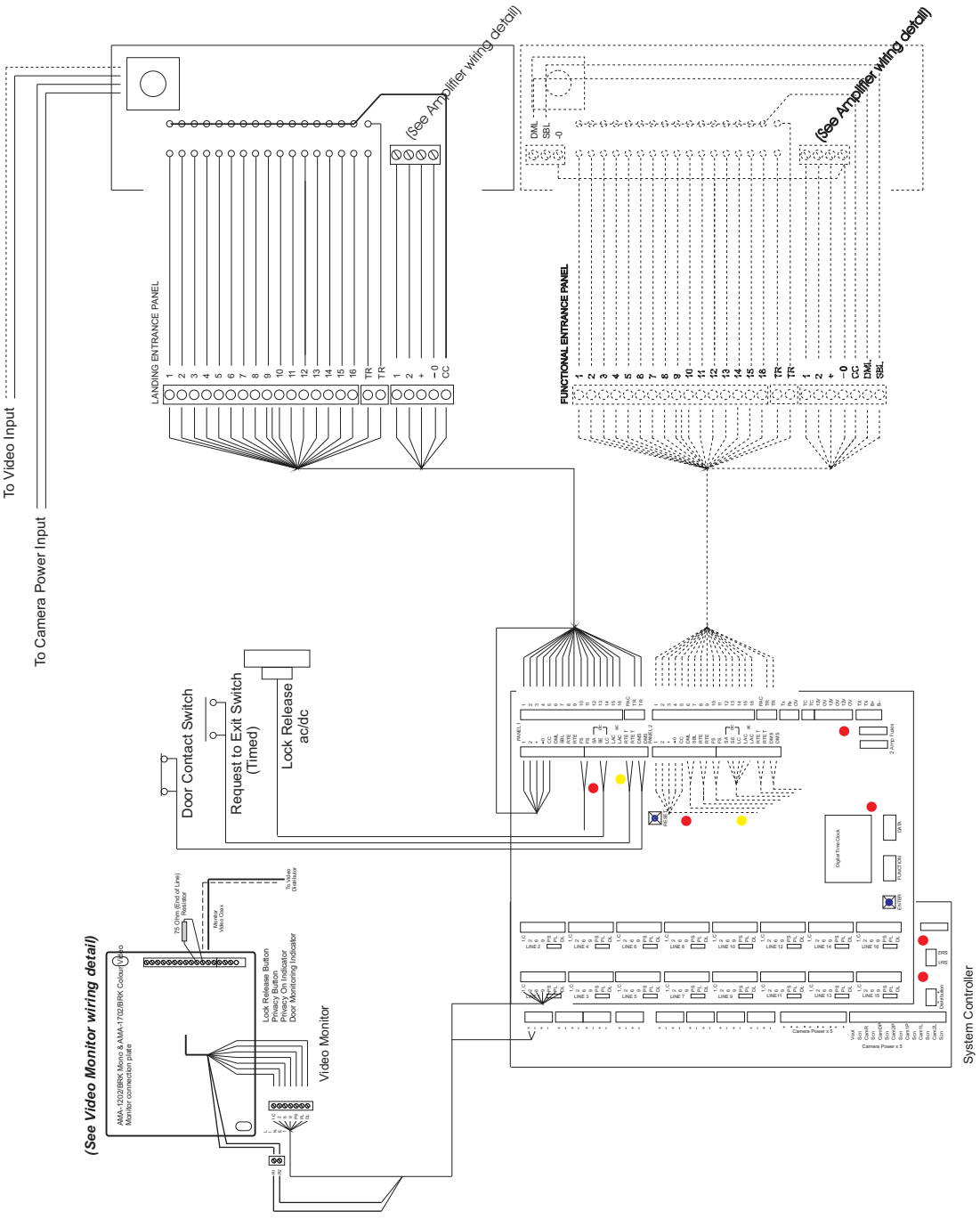


Functional System Controller Overview

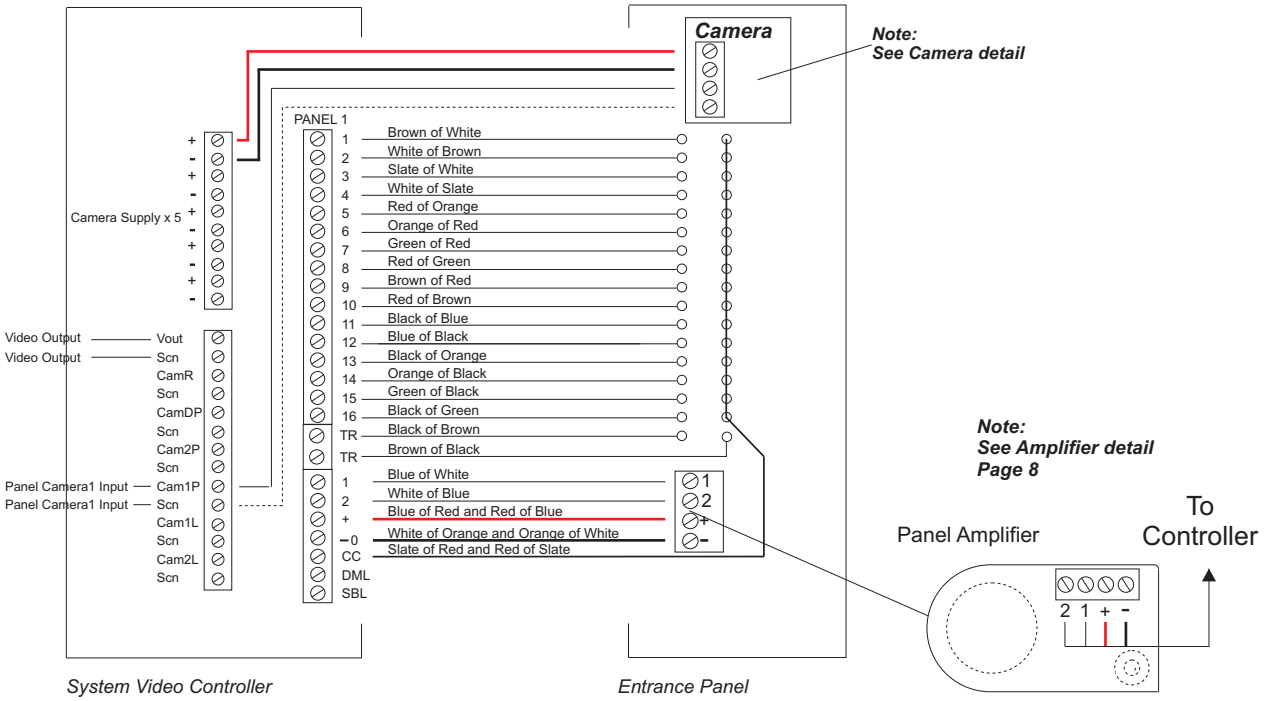


Note:
Fitted Links will give a 12VDC Lock output. With the Links removed a seperate 12VDC/AC -24VDC/AC Lock Power Supply can be connected to LS1(+) and LS2 (-)

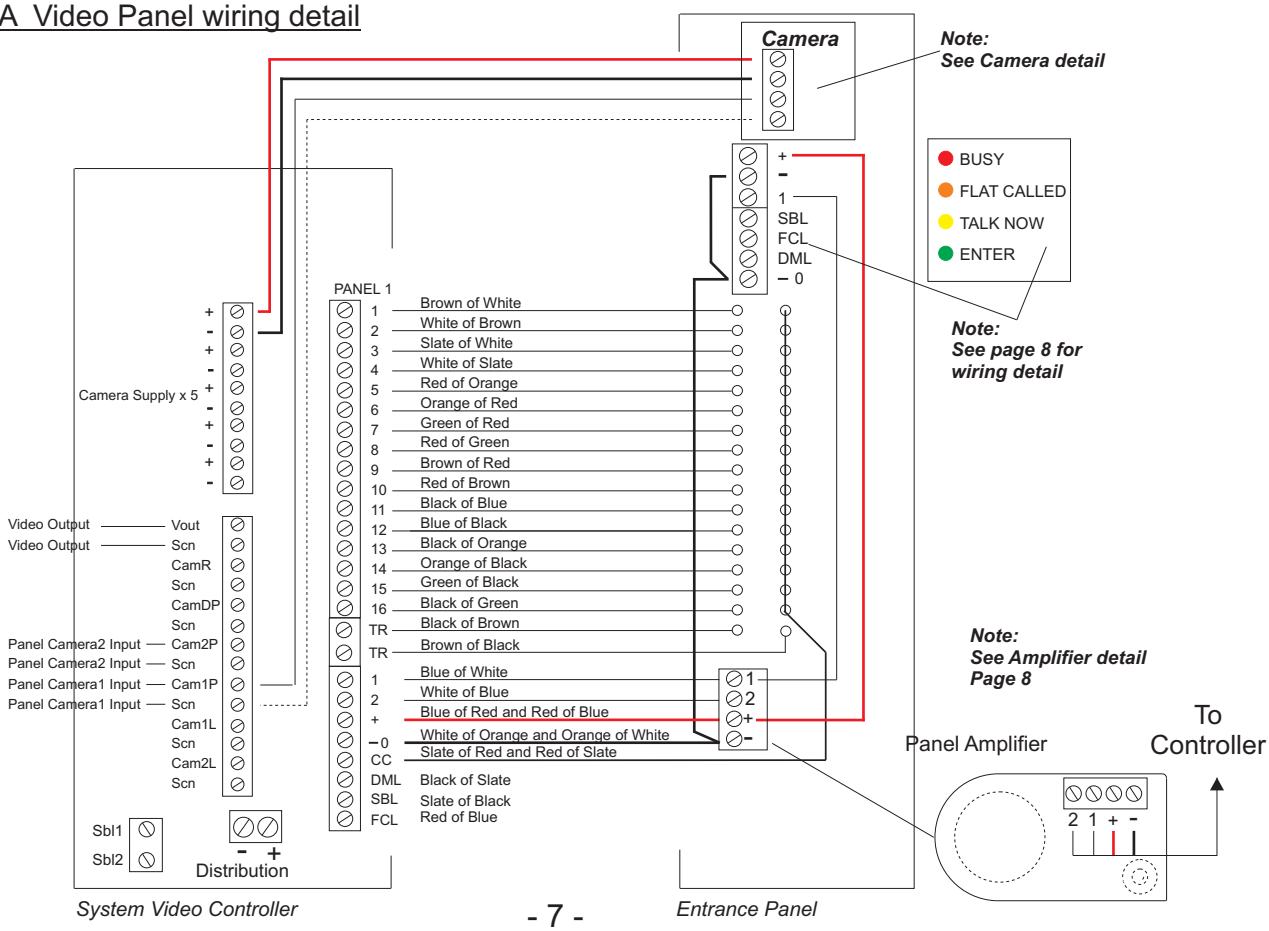
Functional System Wiring Overview



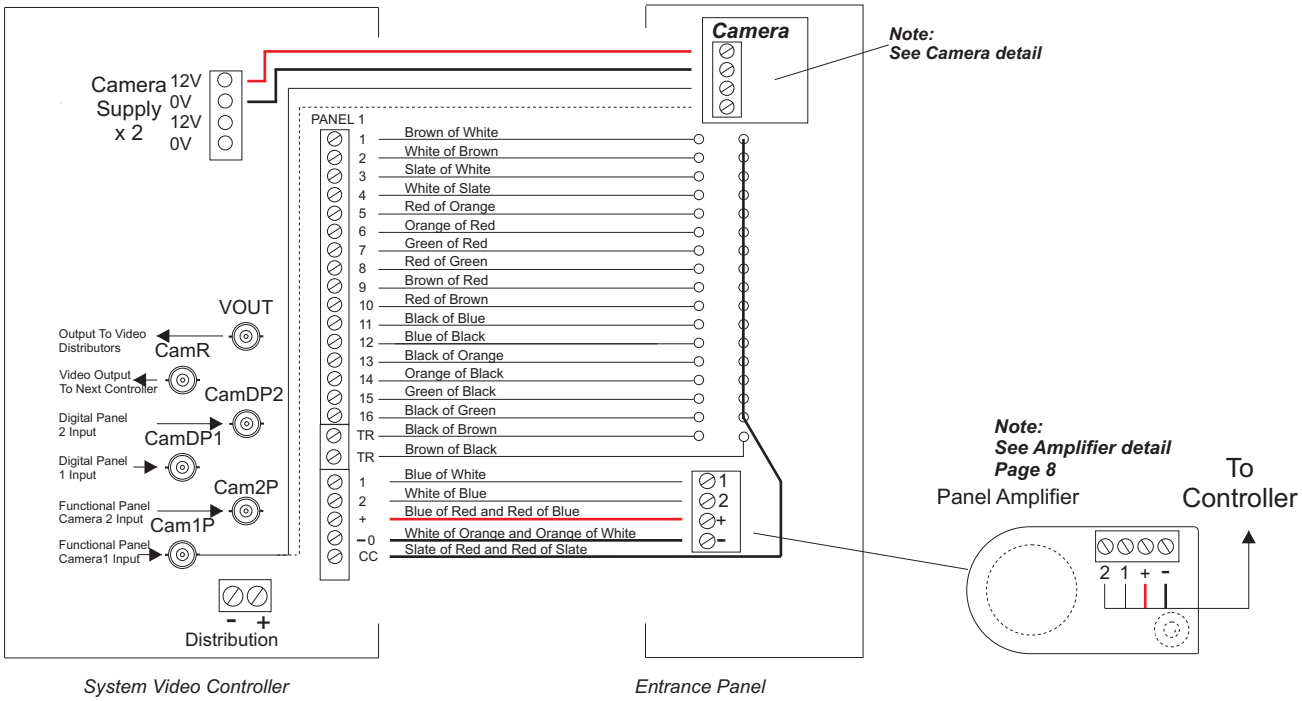
Functional Video Panel wiring detail



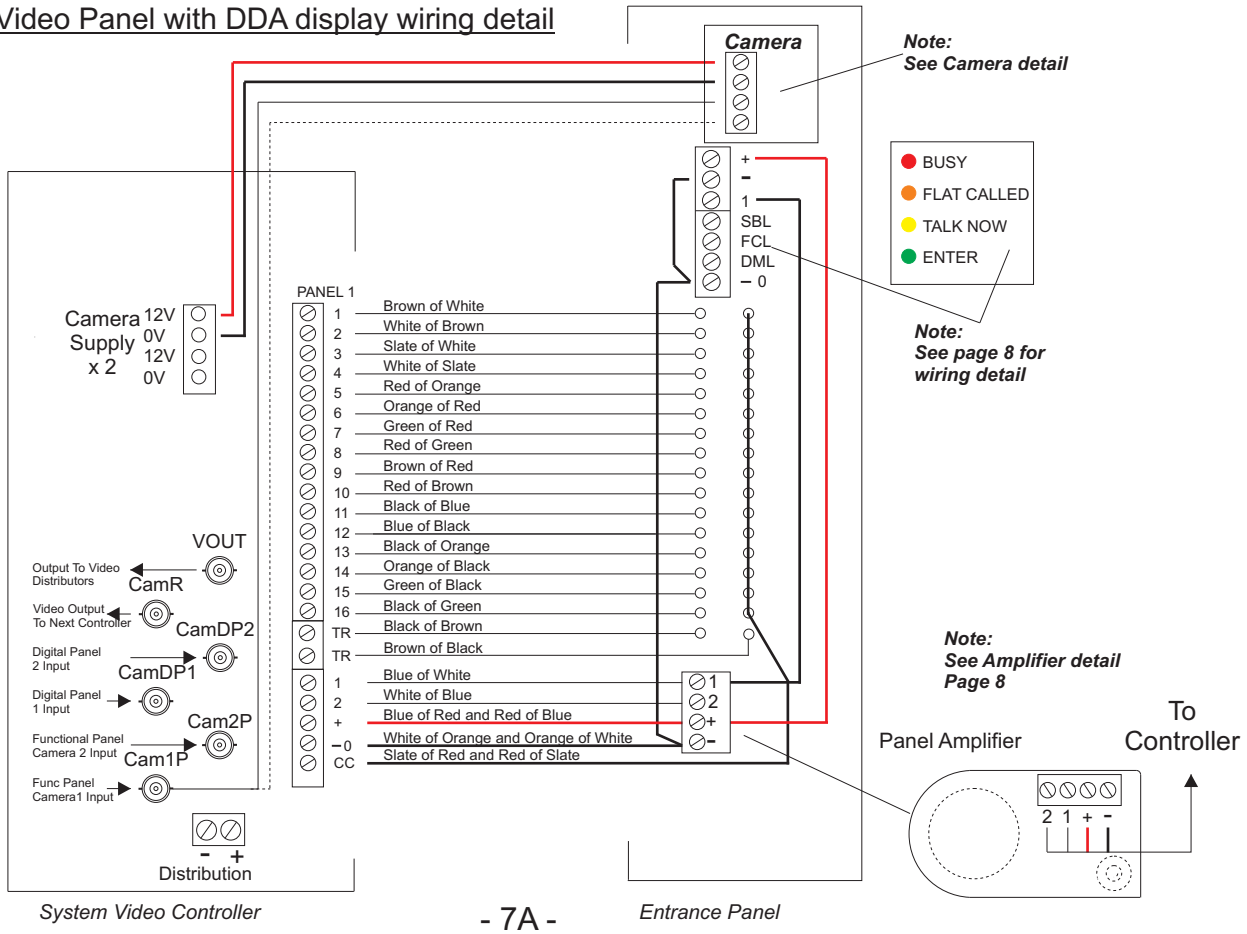
Dual/DDA Video Panel wiring detail



Functional Video Panel wiring detail

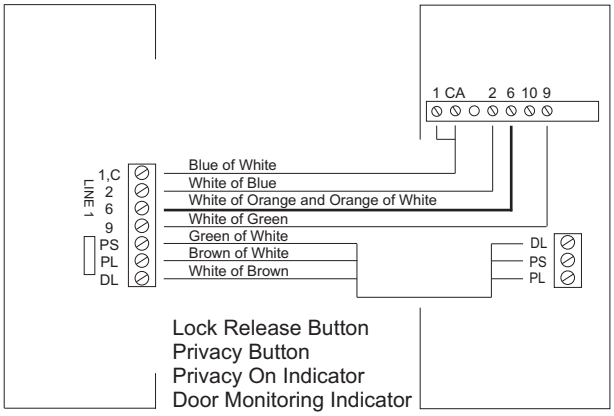


Functional Video Panel with DDA display wiring detail

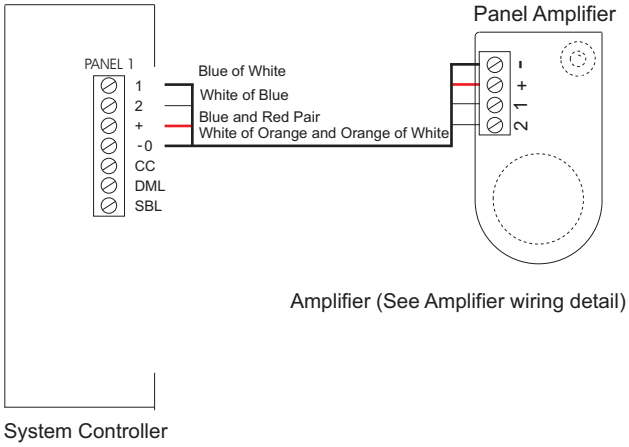


AT-PID Telephone

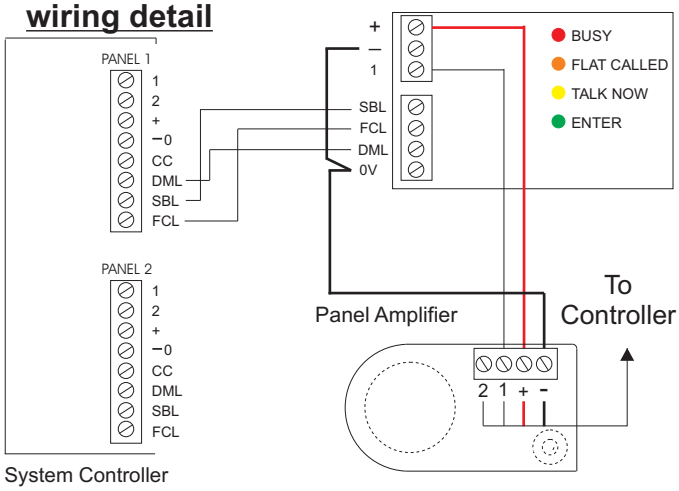
Privacy, Privacy On Indicator and
Door Monitoring Indicator wiring detail



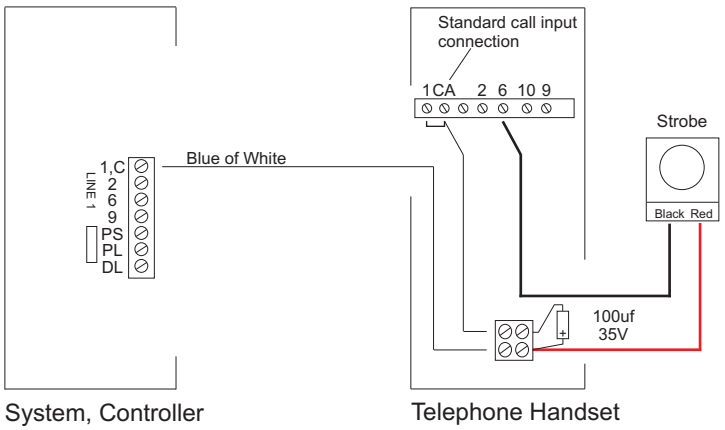
Panel Amplifier wiring detail



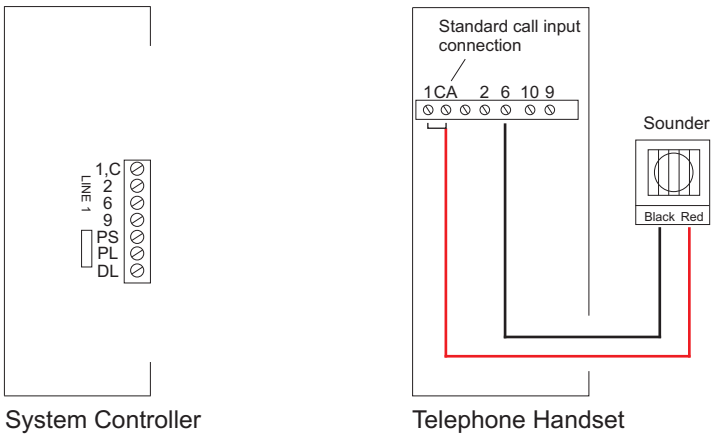
Entrance Panel DDA Display wiring detail



Strobe wiring detail

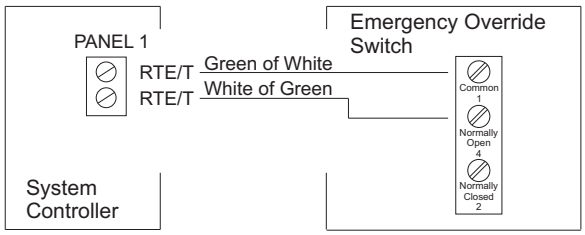


Sounder wiring detail

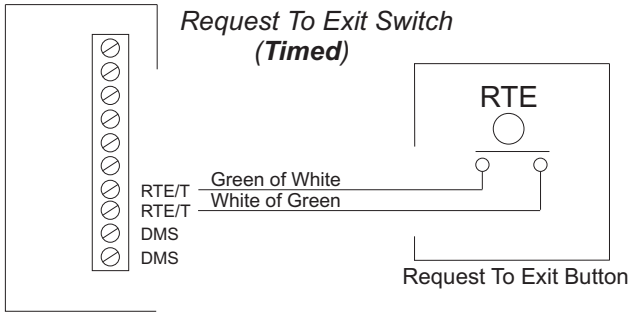


Note:
Please refer to the Controller Programming Instruction sheet in the Functional & Digital Installation Manual on how to initiate the powering of the Strobe.

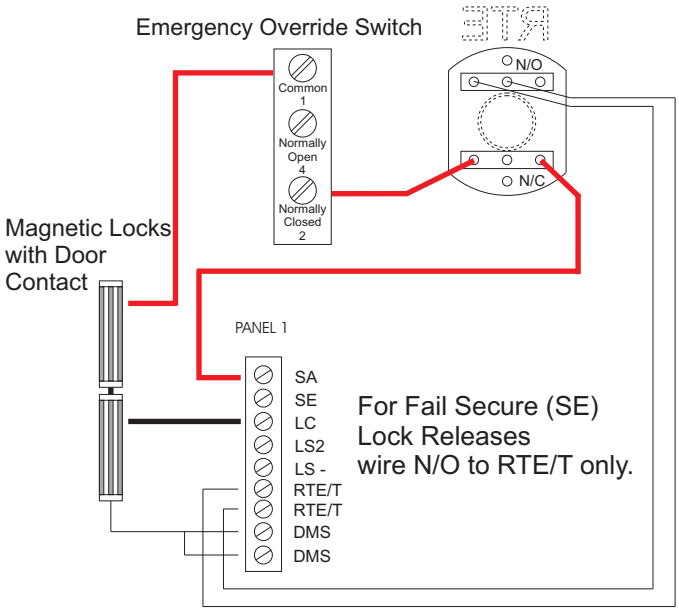
For Fail Secure (SE) Lock Releases.



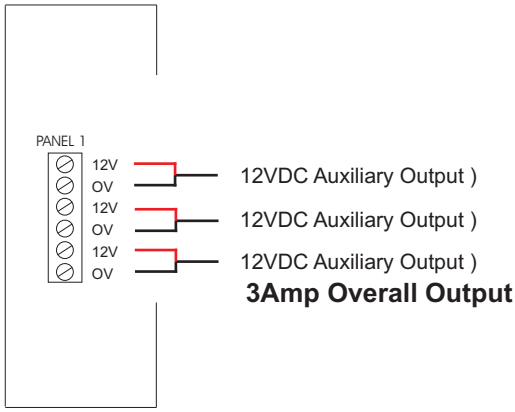
Request To Exit (Timed) wiring detail



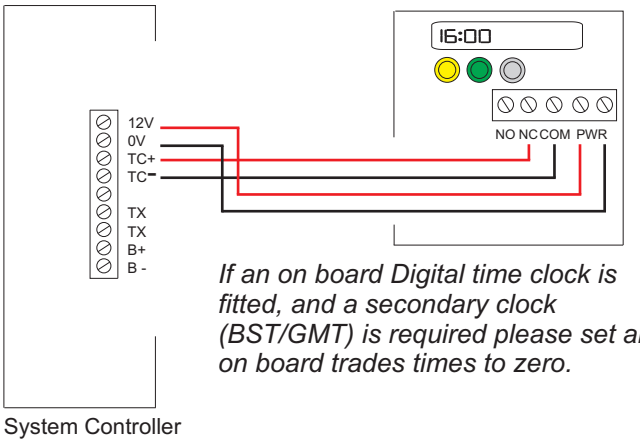
For Fail Safe (SA) Lock Releases.



12VDC Auxiliary Output wiring detail

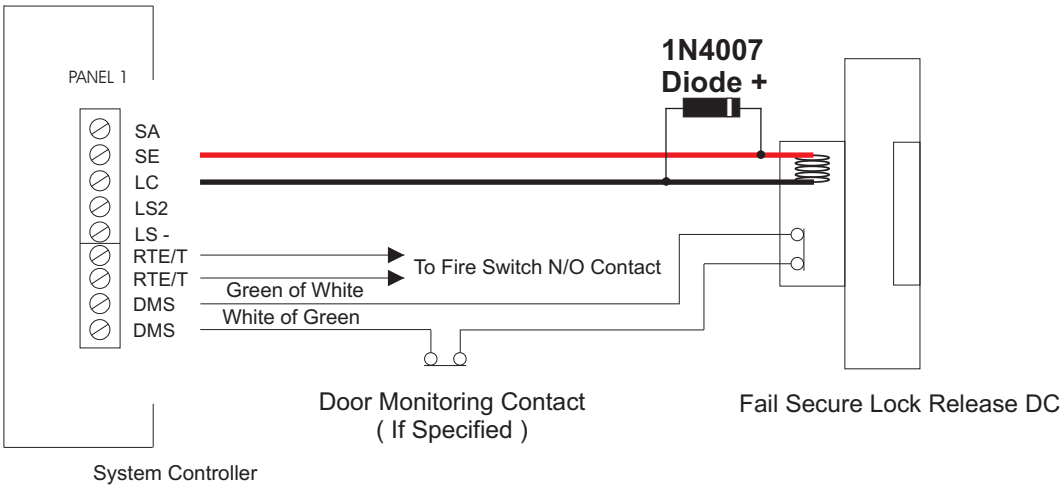


External Time Clock wiring detail

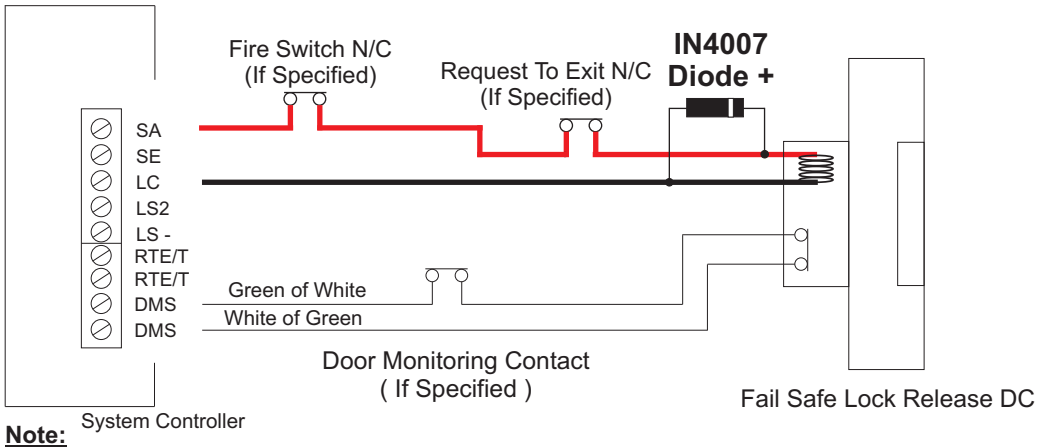


If an on board Digital time clock is fitted, and a secondary clock (BST/GMT) is required please set all on board trades times to zero.

DC Fail Secure Lock Release wiring detail



DC Fail Safe Lock Release wiring detail

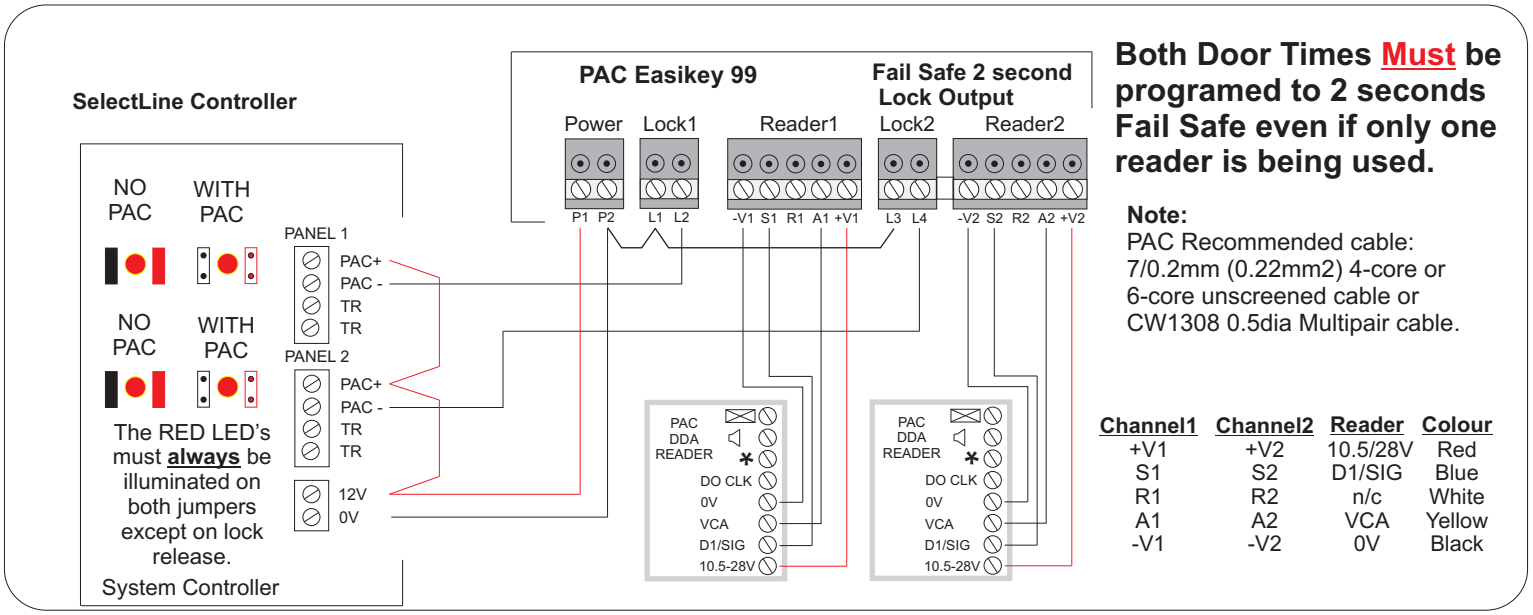


Note:

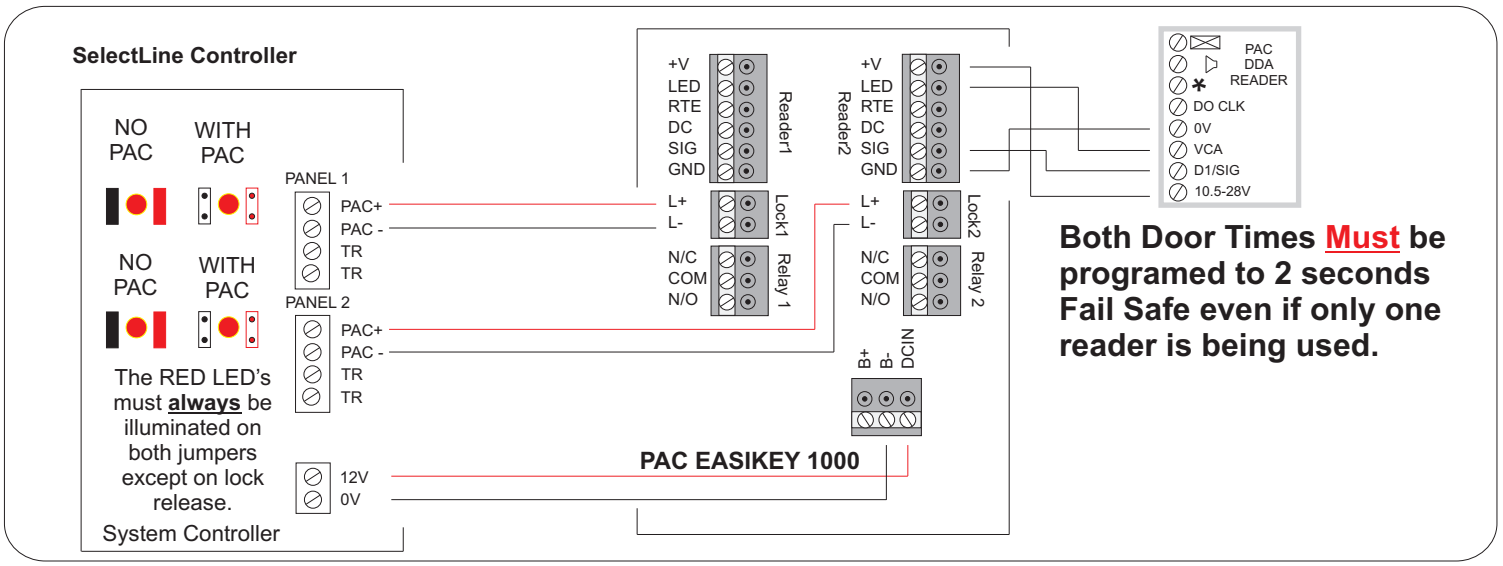
a) If Door Monitoring is not required, then link DMS to DMS with a wire link.

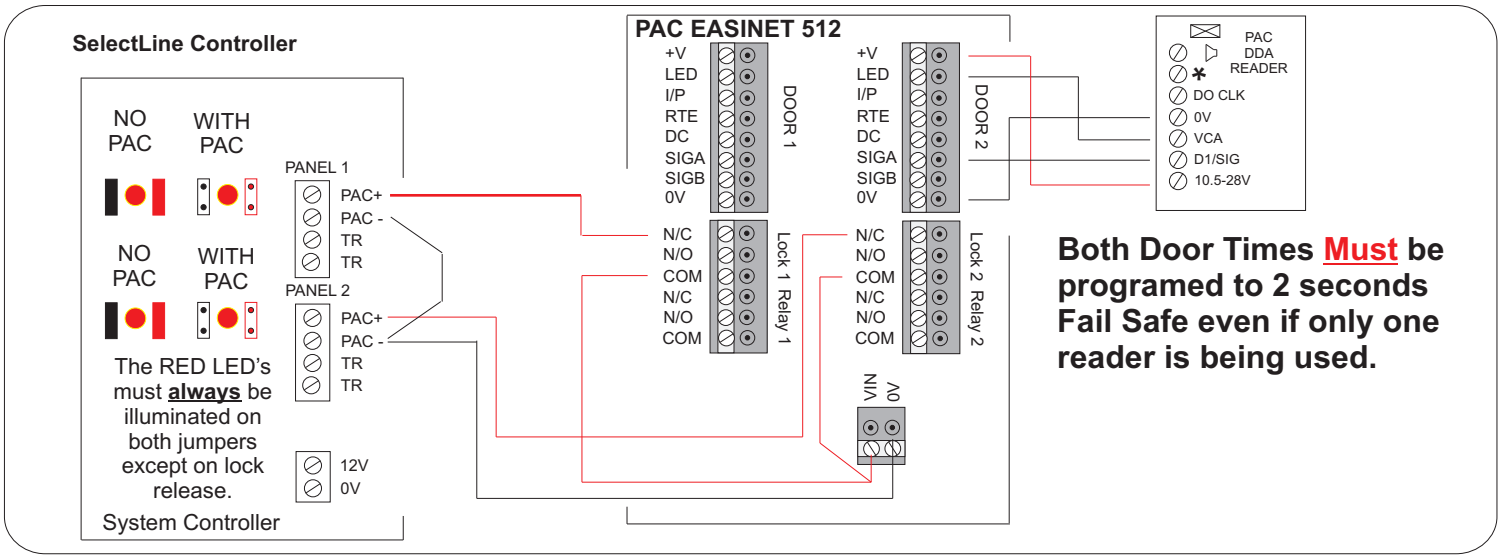
b) It is important that a **1N4007** diode is fitted at the lock release if you are using the System Controller for lock release power, This is to protect the System Controller against back EMF . If the locks are being powered by a PAC Controller then use the MOV supplied with the PAC reader.

Proximity Access wiring detail

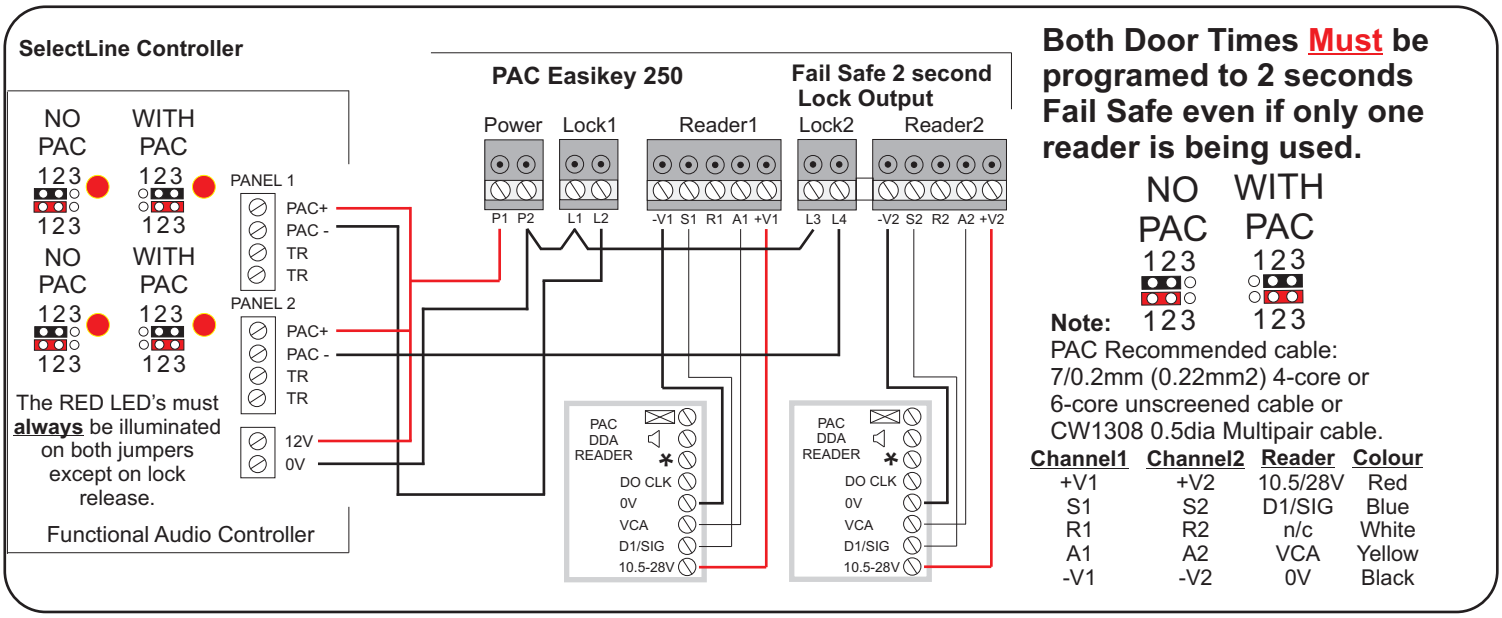


Channel1	Channel2	Reader	Colour
+V1	+V2	10.5/28V	Red
S1	S2	D1/SIG	Blue
R1	R2	n/c	White
A1	A2	VCA	Yellow
-V1	-V2	0V	Black





Proximity Access wiring detail



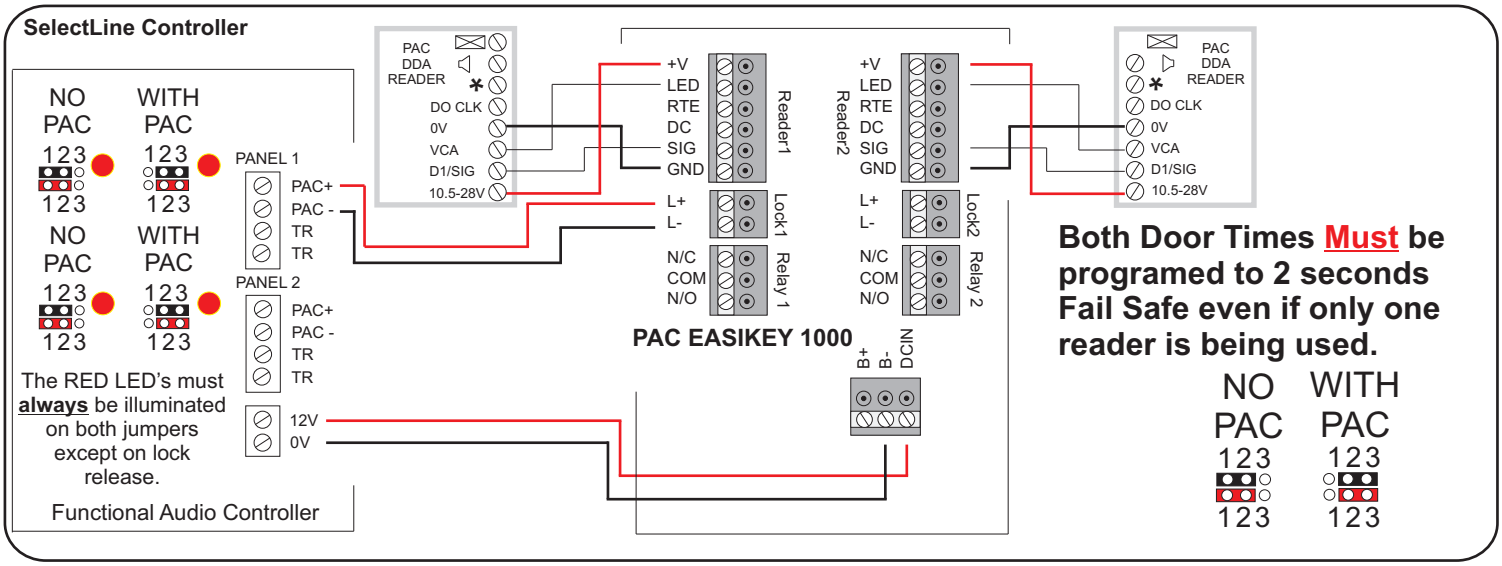
Both Door Times Must be programed to 2 seconds Fail Safe even if only one reader is being used.

NO PAC / WITH PAC

123 / 123

Note: PAC Recommended cable: 7/0.2mm (0.22mm2) 4-core or 6-core unscreened cable or CW1308 0.5dia Multipair cable.

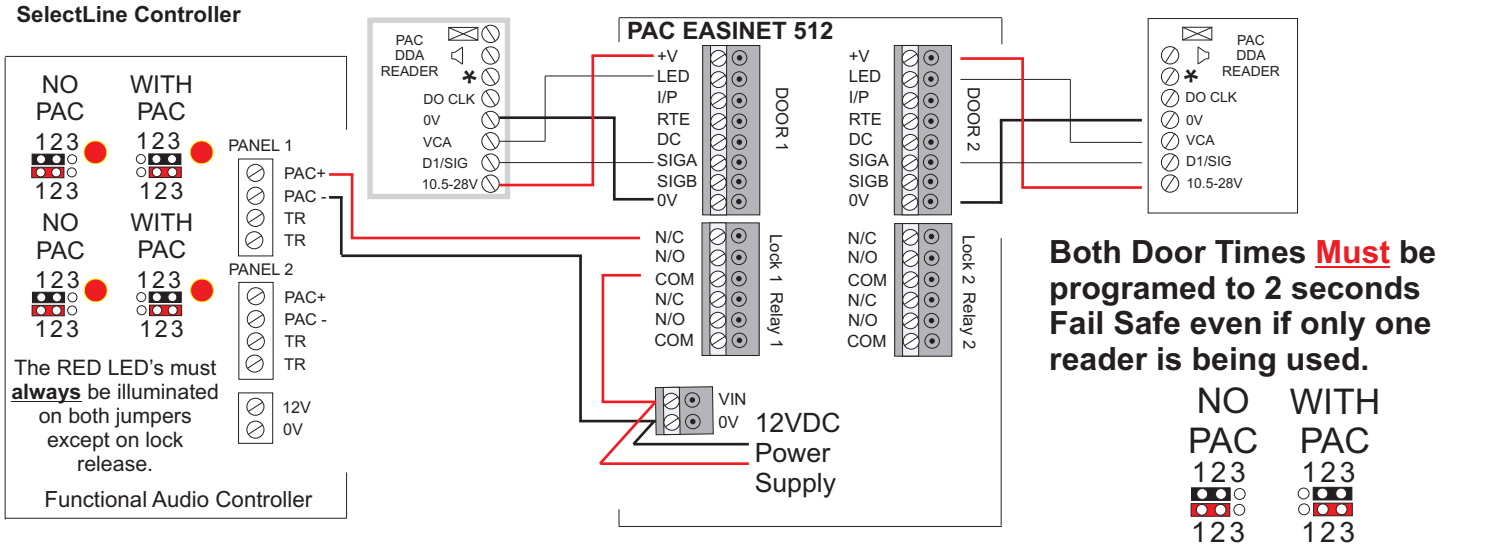
Channel1	Channel2	Reader	Colour
+V1	+V2	10.5/28V	Red
S1	S2	D1/SIG	Blue
R1	R2	n/c	White
A1	A2	VCA	Yellow
-V1	-V2	0V	Black



Both Door Times Must be programed to 2 seconds Fail Safe even if only one reader is being used.

NO PAC / WITH PAC

123 / 123



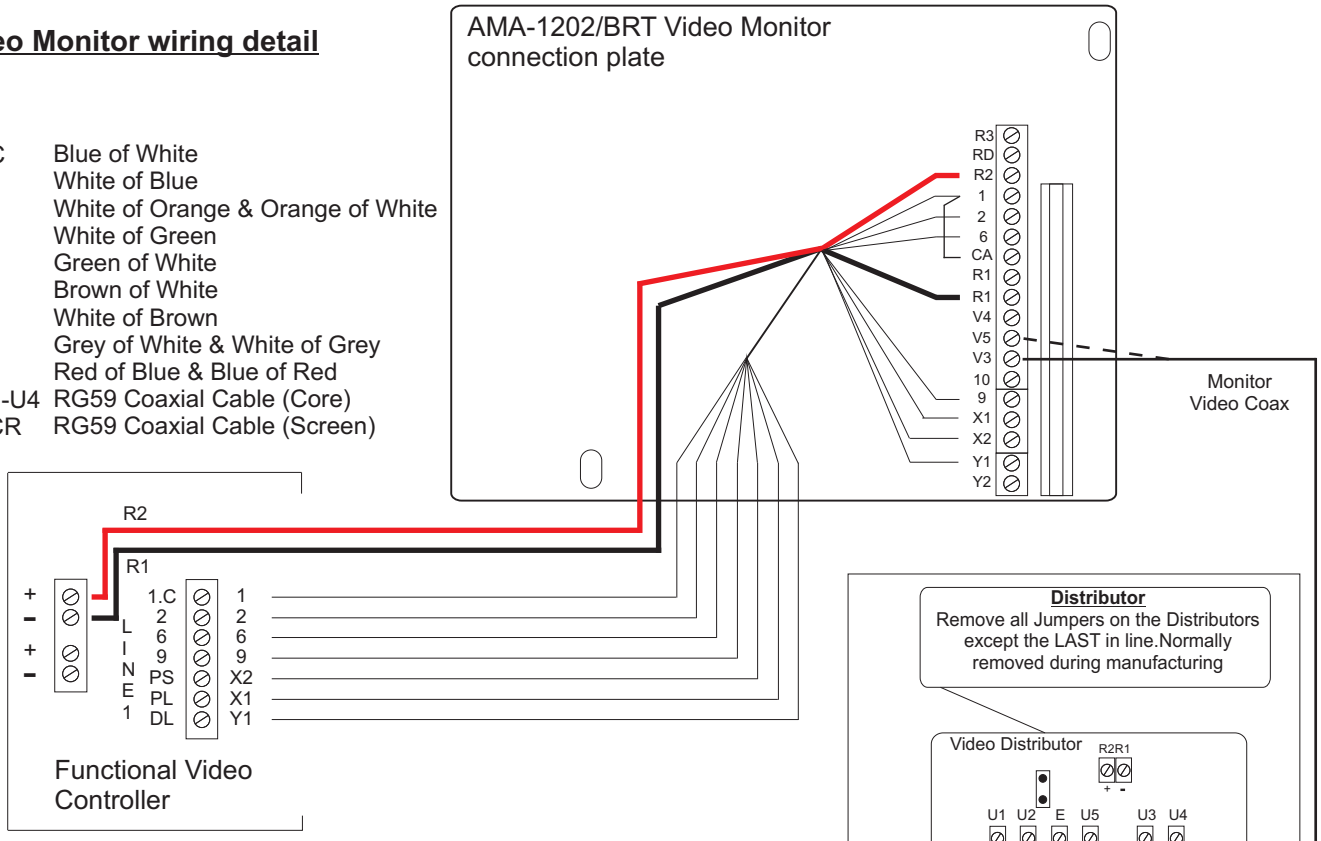
Both Door Times Must be programed to 2 seconds Fail Safe even if only one reader is being used.

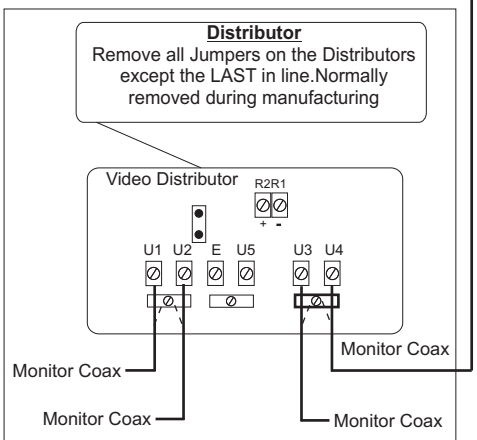
NO PAC / WITH PAC

123 / 123

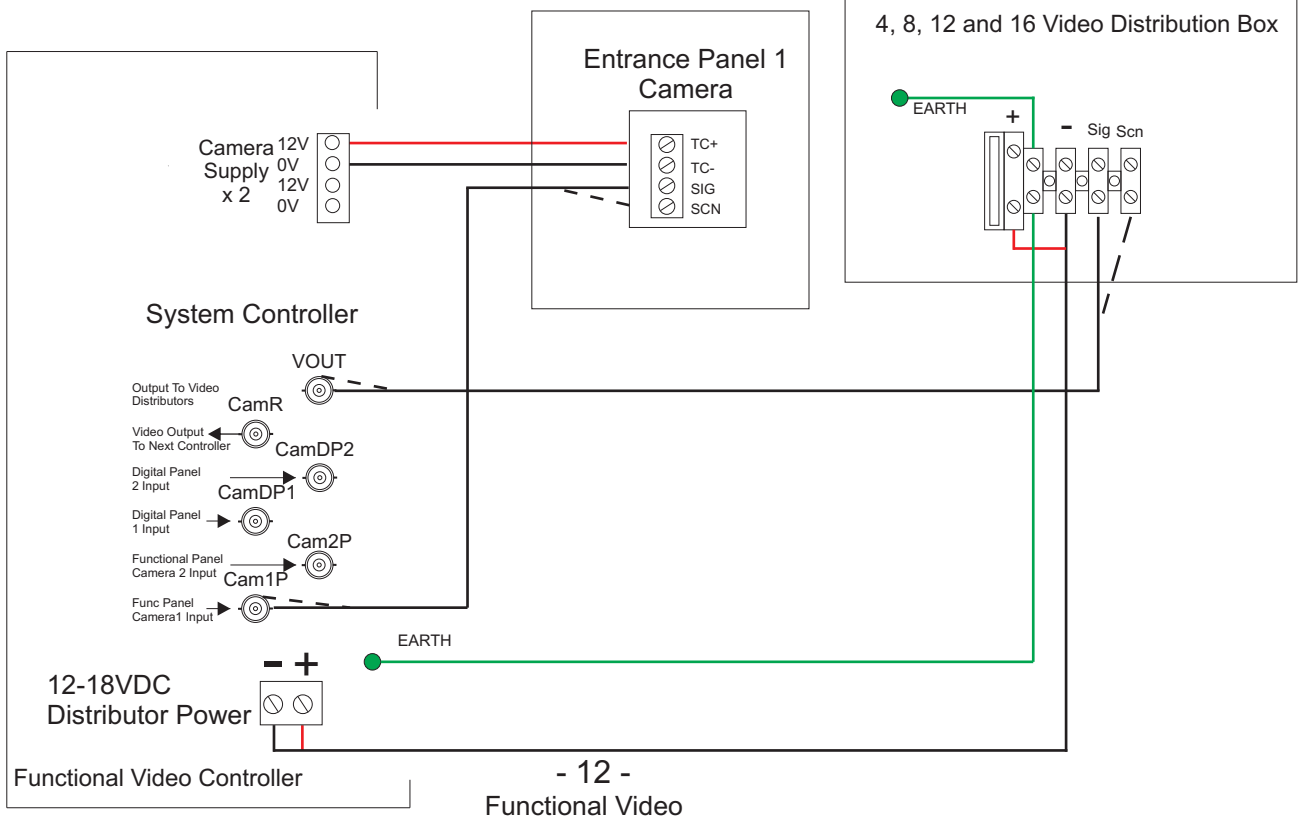
Video Monitor wiring detail

1,C	Blue of White
2	White of Blue
6	White of Orange & Orange of White
9	White of Green
PS	Green of White
PL	Brown of White
DL	White of Brown
R1	Grey of White & White of Grey
R2	Red of Blue & Blue of Red
V3/U1-U4	RG59 Coaxial Cable (Core)
V5/SCR	RG59 Coaxial Cable (Screen)

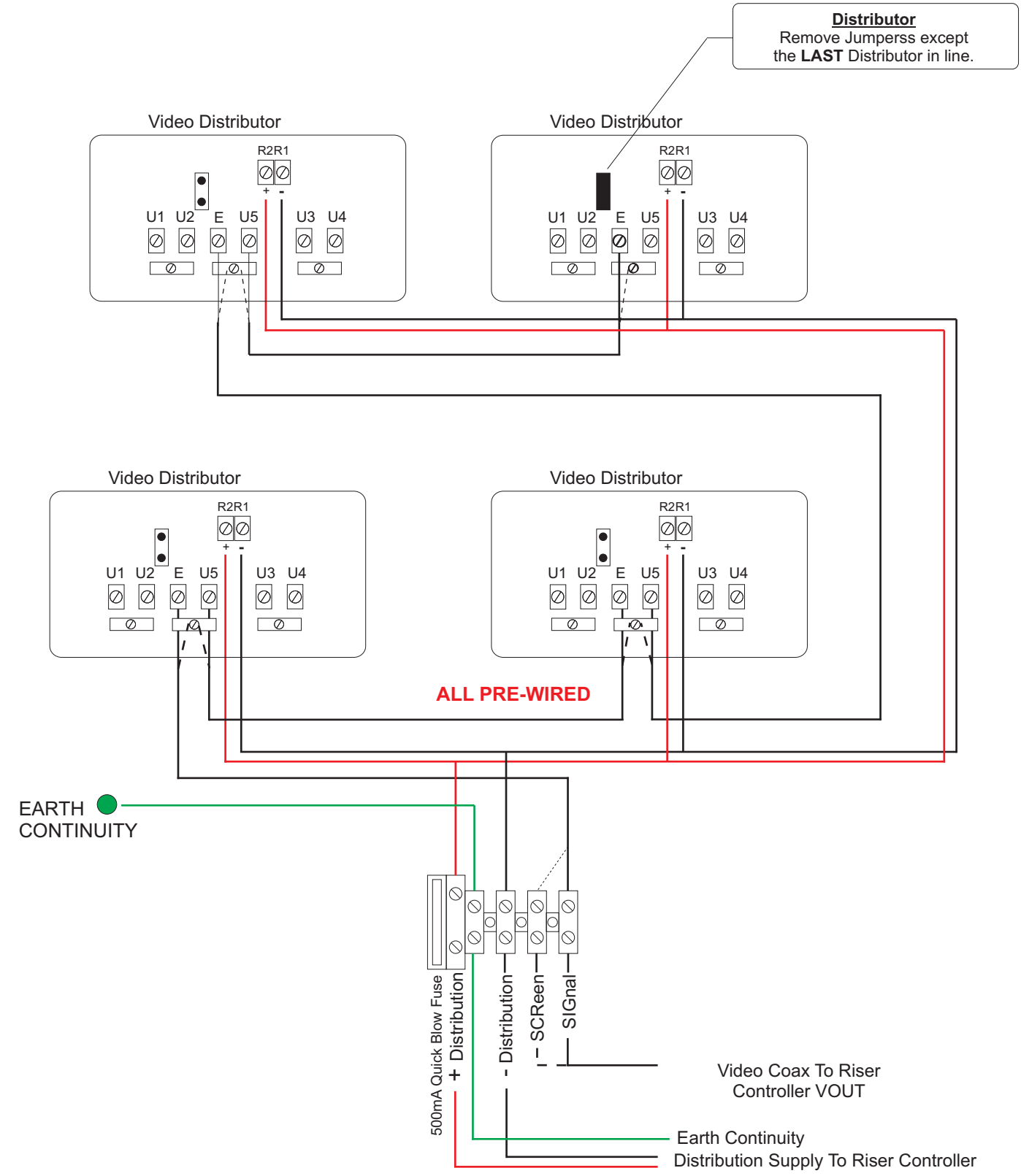




Video Distributor wiring detail



4, 8, 12 and 16 Video Distribution wiring detail



System Controller Summary

Connection Detail

Controller	Video Monitor
1,C	Speaker/Electronic Call
2	Microphone
6	Common
9	Lock Release
PS	Privacy Switch
PL	Privacy On Indicator
DL	Door Monitoring Indicator
R1	0V Monitor Supply
R2	12VDC Monitor Supply

	Panel Amplifier Detail
1	Speaker
2	Microphone
+	+6VDC
-	-6VDC

	Entrance Panel Detail
DML	Door Monitor/Release Indicator
SBL	System Busy Indicator
CC	Button Common

	Trades Detail
TR1	Trades Button
TR2	Trades Button

RTET	Request To Exit (Timed)
RTET	Request To Exit (Timed)

	Lock Release Detail
LC	Lock Common (DC)
SA	Fail Safe (DC)
SE	Fail Secure (DC)

	PAC Detail
PAC	PAC Pre-wired Lock Release

	Serial Connection
Tx	Transmit
Rx	Receive
0V	Common

Controller
TC
TC

Note: N/O Clean Contacts

0V
12V

Note: 3 Amp (3 x 12VDC) Overall Output

TX
TX

B+
B-

Trades Clock
Secondary Trades Clock
Secondary Trades Clock

Auxiliary Supplies
3 x 0V Output
3 x 12VDC Output

Power Input to Controller
12Vac Input
12Vac Input

Battery Back Up
+12VDC Battery Input
0V Battery Input

System Controller Summary cont...

Connection Detail
Controller

	Auxiliary Supplies
0V	3 x 0V Output
12V	3 x 12VDC Output
Note: 3 Amp (3 x 12VDC)	
Overall Output	
	Power Input to Controller
TX	12VAC Input
TX	12VAC Input
	Battery Back Up
B+	+12VDC Battery Input
B-	0V Battery Input
	System Busy Output to Functional Panel
Sbl1	Panel 1 Busy Indicator
Sbl2	Panel 2 Busy Indicator
	Video Distribution
+)	+ 18VDC Distributor Supply
) Distribution	
-)	0V Distributor Supply
	Video Inputs and Outputs
Vout	Video Signal Output to Distributor
Scn	Video Screen Output to Distributor
CamR	Video Riser Signal Output
Scn	Video Riser Screen Output
CamDP	Video Digital Panel Camera Signal Input
Scn	Video Digital Panel Camera Screen Input
Cam2P	Video Functional Panel 2 Camera Signal Input
Scn	Video Functional Panel 2 Camera Screen Input
Cam1P	Video Functional Panel 1 Camera Signal Input
Scn	Video Functional Panel 1 Camera Screen Input
Cam1L	Video Lobby/Landing Panel 1 Camera Signal Input
Scn	Video Lobby/Landing Panel 1 Camera Screen Input
Cam2L	Video Lobby/Landing Panel 2 Camera Signal Input
Scn	Video Lobby/Landing Panel 2 Camera Screen Input
	Camera 12Vdc Output x 5
+)	+ 12VDC Camera Supply
) Camera Supply	
-)	- 0V Camera Supply
	Monitor Supply
R1)	18VDC Monitor Supply
) Monitor Output	
R2)	0V Monitor Supply

System Controller Programming Instructions

To be used in conjunction with the Controller Programming Instruction.

PROGRAMMING LINES

By setting all **FUNCTION** switches to **ON** and then pressing enter will set the system to default. (See System function Programming for set up and manufactures default settings).

Select the line number to program using the **FUNCTION** switches 1 - 5, note that position 6, 7 and 8 are always in the **OFF** position. (See Controller Programming Instruction).

Next using the **DATA** switches 1 to 4 set the Privacy time. For Call volume and Call type, set **DATA** switches 5, 6 and 7 to the required positions. At this time, setting **DATA** switch 8 to the **ON** position will program a Strobe, Sounder or both. (See Controller Programming Instruction).

Finally pressing the enter button will save the current Line information to memory. Continue until all Lines are programmed.

LOCK RELEASE PROGRAMMING

Use the **FUNCTION** switches to select Entrance Panel 1 and the **DATA** switches to select the number of seconds for the release duration. Select the lock release duration time using the **TIME SELECTION** seconds chart. (See Controller Programming Instruction).

Repeat for Entrance Panel 2

TELEPHONE RING TIME FROM THE ENTRANCE PANEL

Use the **FUNCTION** switches to select Entrance Panel 1 and the **DATA** switches to select the number of seconds for the ringing time duration. Select the ring time duration using the **TIME SELECTION** seconds chart.(See Controller Programming Instruction).

Repeat for Entrance Panel 2

ENTRANCE PANEL TO TELEPHONE CALL DURATION TIME

Use the FUNCTION switches to select Entrance Panel 1 and the DATA switches to select the number of seconds for the call duration time. Select the call duration time using the TIME SELECTION seconds chart. (See Controller Programming Instruction).

Repeat for Entrance Panel 2

DELAY BEFORE DOOR ALARM ACTIVATION

Use the FUNCTION switches to select Entrance Panel 1 and the DATA switches to select the number of minutes for the delay time. Select the Door Alarm delay duration time using the TIME SELECTION minutes chart. (See Controller Programming Instruction).

Repeat for Entrance Panel 2

DOOR ALARM DURATION TIME

Use the FUNCTION switches to select Entrance Panel 1 and the DATA switches to select the number of minutes for the alarm duration. Select the Door Alarm duration time using the TIME SELECTION minutes chart. (See Controller Programming Instruction).

Repeat for Entrance Panel 2

If required, the System Controller can send serial data to a PC.

Controller Programming Settings

SYSTEM CONFIGURATION	Notes	FUNCTION SWITCH 1	2	3	4	5	6	7	8	DATA SWITCH 1	2	3	4	5	6	7	8
Default setting for all items		1	1	1	1	1	1	1	1	X	X	X	X	X	X	X	X
Send setup to serial Port		0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0
Low Call Volume and Privacy Time	1	L	L	L	L	L	0	0	0	P	P	P	P	0	1	1	E
Medium Call Volume and Privacy Time	1	L	L	L	L	L	0	0	0	P	P	P	P	0	0	1	E
Nominal Call Volume and Privacy Time	1	L	L	L	L	L	0	0	0	P	P	P	P	0	1	0	E
High Call Volume and Privacy Time	1	L	L	L	L	L	0	0	0	P	P	P	P	0	0	0	E
Buzzer and Privacy Time	1	L	L	L	L	L	0	0	0	P	P	P	P	1	0	0	E
Lock Release Time. Entrance Panel 1	2	1	0	0	0	0	0	1	0	S	S	S	S	S	S	S	S
Lock Release Time. Entrance Panel 2	2	0	1	0	0	0	0	1	0	S	S	S	S	S	S	S	S
Telephone Ring Time. Entrance Panel 1	2	1	0	0	0	0	1	1	0	S	S	S	S	S	S	S	S
Telephone Ring Time. Entrance Panel 2	2	0	1	0	0	0	1	1	0	S	S	S	S	S	S	S	S
Call Duration Time. Entrance Panel 1	2	1	0	0	0	0	0	0	1	S	S	S	S	S	S	S	S
Call Duration Time. Entrance Panel 2	2	0	1	0	0	0	0	0	1	S	S	S	S	S	S	S	S
Delay before Door Alarm. Entrance Panel 1	3	1	0	0	0	0	1	0	1	M	M	M	M	M	M	M	M
Delay before Door Alarm. Entrance Panel 2	3	0	1	0	0	0	1	0	1	M	M	M	M	M	M	M	M
Door Alarm Duration Time. Entrance Panel 1	4	1	0	0	0	0	0	1	1	M	M	M	M	M	M	M	M
Door Alarm Duration Time. Entrance Panel 2	4	0	1	0	0	0	0	1	1	M	M	M	M	M	M	M	M
Controller Address (Functional switch always the same)		0	0	0	1	0	1	1	1	N	N	N	N	N	N	N	N

IMPORTANT: Please do not forget to press the Enter button after making a selection.

(See Flat Programming Sheet)

Note:
1) If an Extension Sounder or Strobe be required set Data switch 8 (E) to ON.
2) Do not set a value of Zero seconds or the system will not time out.
3) Set all Data switches to the OFF position if no Door Alarm is required.
4) Set all Data switches to ON position if the Door Alarm is to operate continuously.

1 = ON
0 = OFF
L = Line Number (Telephone)
P = Privacy Time (Telephone)
E = Extension Strobe/Sounder as required (See note 1)
X = Any Position
S = Seconds
M = Minutes
N = Number

LINE SELECTION (L)

Line Number	Function Switch 1	2	3	4	5
1	1	0	0	0	0
2	0	1	0	0	0
3	1	1	0	0	0
4	0	0	1	0	0
5	1	0	1	0	0
6	0	1	1	0	0
7	1	1	1	0	0
8	0	0	0	1	0
9	1	0	0	1	0
10	0	1	0	1	0
11	1	1	0	1	0
12	0	0	1	1	0
13	1	0	1	1	0
14	0	1	1	1	0
15	1	1	1	1	0
16	0	0	0	0	1

TIME SELECTION (M/S) & CONTROLLER ADDRESS (N)

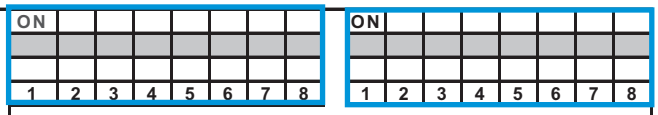
Data Switch		Number of (M)inutes or (S)econds	Controller Address (N)umber
1	ON	1	1
2	ON	2	2
3	ON	4	4
4	ON	8	8
5	ON	16	16
6	ON	32	32
7	ON	64	64
8	ON	128	Not Used

Note:
1) Select the combination that adds up to the required time period (Max 255 Seconds/Minutes) or Controller Address Number (Max 99).

2) All switches not required must be in the OFF position.

PRIVACY TIMER SELECTION (P)

Privacy Timer (M)inutes and Hours	Data Switch 1	2	3	4
NO TIME (Remains on until manually switched off)	0	0	0	0
	-	-	-	-
10 Minutes	0	1	0	0
20 Minutes	0	0	1	0
30 Minutes	0	1	1	0
40 Minutes	0	0	0	1
50 Minutes	0	1	0	1
60 Minutes	0	0	1	1
70 Minutes	0	1	1	1
2 Hours	1	0	0	0
4 Hours	1	1	0	0
6 Hours	1	0	1	0
8 Hours	1	1	1	0
10 Hours	1	0	0	1
12 Hours	1	1	0	1
14 Hours	1	0	1	1
16 Hours	1	1	1	1



EXAMPLE SYSTEM SETTINGS		Notes	FUNCTION SWITCH 1	2	3	4	5	6	7	8	DATA SWITCH 1	2	3	4	5	6	7	8
Default setting for all items			1	1	1	1	1	1	1	1	X	X	X	X	X	X	X	X
Send setup to serial Port			0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	X
Low Call Volume and Privacy Time	Line1-Privacy 10 Mins	1	1	0	0	0	0	0	0	0	1	0	0	0	1	1	0
Medium Call Volume and Privacy Time	Line5-Privacy 50 Mins	1	1	0	1	0	0	0	0	0	1	0	1	0	0	1	0
Nominal Call Volume and Privacy Time	Line9-Privacy 4 Hours+Strobe	1	1	0	0	1	0	0	0	1	1	0	0	0	1	0	1
High Call Volume and Privacy Time	Line12-Privacy 8 Hours	1	0	0	1	1	0	0	0	1	1	1	0	0	0	0	0
Buzzer and Privacy Time	Line16-Privacy 12 Hours+Strobe	1	0	0	0	0	1	0	0	0	1	1	0	1	1	0	0	1
Lock Release Time. Entrance Panel 1	16 seconds	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
Lock Release Time. Entrance Panel 2	10 Seconds	2	0	1	0	0	0	0	1	0	0	1	0	1	0	0	0	0
Telephone Ring Time. Entrance Panel 1	32 Seconds	2	1	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0
Telephone Ring Time. Entrance Panel 2	24 Seconds	2	0	1	0	0	0	1	1	0	0	0	0	1	1	0	0	0
Call Duration Time. Entrance Panel 1	20 Seconds	2	1	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0
Call Duration Time. Entrance Panel 2	32 Seconds	2	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0
Delay before Door Alarm. Entrance Panel 1	5 Minutes	3	1	0	0	0	0	1	0	1	1	0	1	0	0	0	0	0
Delay before Door Alarm. Entrance Panel 2	8 Minutes	3	0	1	0	0	0	1	0	1	0	1	0	1	0	0	0	0
Door Alarm duration Time. Entrance Panel 1	Continuous	4	1	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
Door Alarm duration Time. Entrance Panel 2	15 Minutes	4	0	1	0	0	0	0	1	1	1	1	1	1	1	1	0	0

Note:

1) If an Extension Sounder or Strobe are required set Data switch 8 to ON.
2) Do not set a value of zero seconds or the system will not time out.
3) Set all Data switches to the OFF position if no Door Alarm is required.
4) Set all Data switches to ON if the Door Open Alarm is to operate continuously.

1 = ON
0 = OFF
L = Line Number (Telephone)
P = Privacy Time (Telephone)
E = Extension Sounder or Strobe as required (See note 1)
X = Any Position
S = Seconds
M = Minutes

LINE SELECTION (L)

Line Number	Function Switch 1	2	3	4	5
1	1	0	0	0	0
2	0	1	0	0	0
3	1	1	0	0	0
4	0	0	1	0	0
5	1	0	1	0	0
6	0	1	1	0	0
7	1	1	1	0	0
8	0	0	0	1	0
9	1	0	0	1	0
10	0	1	0	1	0
11	1	1	0	1	0
12	0	0	1	1	0
13	1	0	1	1	0
14	0	1	1	1	0
15	1	1	1	1	0
16	0	0	0	0	1

TIME SELECTION (M/S)

	Data Switch	Number of (M)inutes or (S)econds
1	ON	1
2	ON	2
3	ON	4
4	ON	8
5	ON	16
6	ON	32
7	ON	64
8	ON	128

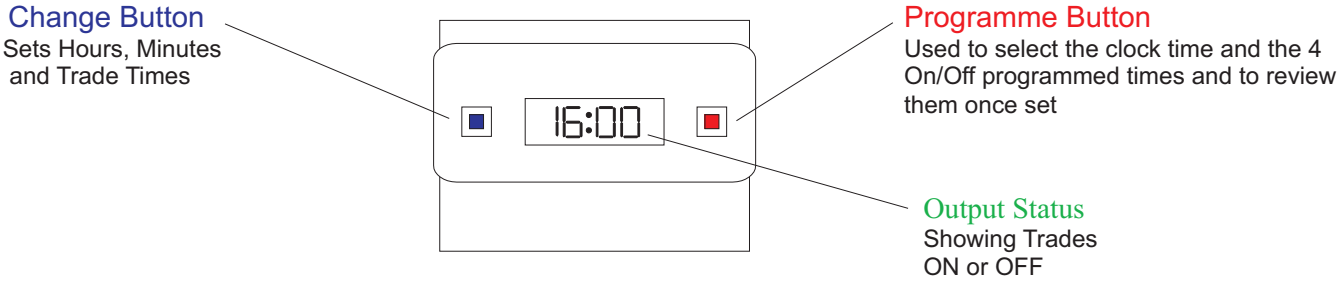
Note:
1) Select the combination that adds up to the required time period.(Maximum 255 Min/Seconds).

2) All switches not required must be in the OFF position.

PRIVACY TIMER SELECTION (P)

Privacy Timer (M)inutes and Hours	Data Switch 1	2	3	4
NO TIME (remains on	0	0	0	0
until manually switched off)	-	-	-	-
10 Minutes	0	1	0	0
20 Minutes	0	0	1	0
30 Minutes	0	1	1	0
40 Minutes	0	0	0	1
50 Minutes	0	1	0	1
60 Minutes	0	0	1	1
70 Minutes	0	1	1	1
2 Hours	1	0	0	0
4 Hours	1	1	0	0
6 Hours	1	0	1	0
8 Hours	1	1	1	0
10 Hours	1	0	0	1
12 Hours	1	1	0	1
14 Hours	1	0	1	1
16 Hours	1	1	1	1

Digital Trades Clock Operating Instructions



Programming

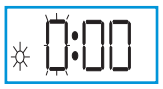
Only two setting buttons are required, Change and Program
In normal use the Change Button is used to switch ON or OFF overriding the time switch until the next program ON or OFF time. During programming the Change Button is used to set the Hours and Minutes. The Program Button is only used when setting or adjusting the clock Time or the 4 programmed ON/OFF times, although it can be used to review the ON/OFF times once they have been set.. Each time the Program Button is pressed the display will flash either the hours or minutes in turn, starting with the clock, then the first ON time, first OFF time, second ON time etc.
Wherever the hours or minutes are flashing they maybe set using the Change Button. Once the Program Button is pressed again to proceed to the next stage.

Normal Operating Mode

In normal operation the time clock will display the correct time with the colon flashing. The output status will be shown be either ON or OFF on the display.

1. To Reset Display Mode

To clear programme from memory and reset the time controller press and hold down both buttons until the display goes blank. Release buttons and the display will fill with its complete range of characters and then clear to show the clock and hour digit flashing.



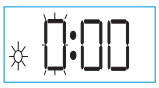
Programming Sequence

Setting Clock
Programme 1 ON
Programme 1 OFF
Programme 2 ON
Programme 2 OFF
Programme 3 ON
Programme 3 OFF
Programme 4 ON
Programme 4 OFF
Operating Mode

Note:
Button pauses greater than 0ne minute during programming will result in automatic return to the operating mode.

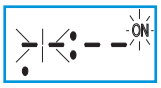
2. Setting Clock (after reset)

i. Hour setting– Press the Change Button to advance the hour setting. **Note:** For rapid hour selections press and hold the Change Button.



ii. Minute Setting- Press the Program Button once to select the minutes display shows clock symbol and minute digits flashing. Press the Change Button to advance the minutes setting.
Note: For rapid minute selection press and hold the Change Button (16 hours shown as example of hours set).

iii. Press the Program Button once- clock is now set and display shows ready for the first ON programme time with ON and the hours digit flashing.



3. To Set Programme ON/OFF Times

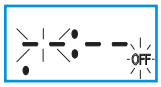
(After clock setting)

Program1 ON time

i. Press Change Button to advance the hour setting.

ii. Press the Program Button once to select the minute time–display shows minute digits and ON Flashing. Press Change Button to advance the minute setting. **Note:** 16 hours shown as example of hours set).

iii. Press the Program Button once – the first ON time is now set and the display will show ready for the first OFF programme time.



iv. Now set the hours and minutes as before.

v. Repeat steps I to iv to set the remainder of the 3 ON/OFF times as required. **Note:** Any unused ON/OFF programs should be skipped until the display shows normal operating mode. Do not program '0's into unused programs.

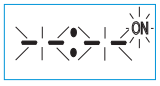
4. Program Review

To fast review the set program or for quick exit to normal operating mode press and hold the Program Button

5. Initiating Programme Mode

This can be initiated at any time during the normal operating mode. Press Program Button and the clock, hours and minutes symbols on the display will flash – this is the review mode. If any change to the programmes is required press the Change Button to initiate programme mode and then follow steps 2 and 3.

6. Cancelling Programmes



Any ON/OFF programme can be cancelled by clearing its ON and OFF time. Follow step 5 and when into the ON/OFF programme to be cancelled press the Change Button until the digits show then press the Program Button to clear the programme. The display will show the hour and minute digits and ON or OFF flashing.

Self Cancelling Override

To change the output status from ON to OFF or vice versa during normal operation press the Change Button. The output status will change and indicate override is in operation by flashing.

GMT/BST TIME SWITCH
Programming Instructions

Select Manufacturing Limited
Unit G3
The Seedbed Centre
Wyncolls Road
Colchester
Essex CO4 9HT

Connection
The 2 screw terminals marked 'PWR' need to be connected to an AC **or** DC power supply within the following voltages:-
AC:- 7V to 21V R.M.S.
DC:- 10V to 30V
Note that if using a dc supply, it can be connected with either polarity.
The remaining 3 screw terminals are cleanSPCO relay contacts for connection to the target system.
Contact rating:-2A @ 30VDC
0.6A @ 150VAC

Display
The large LCD display shows the following information:-
The left hand 8 digits normally shows the date in DD/MM/YY format. Every 30 seconds this changes to show the relay state and the day of the week for a few moments. The right hand 8 digits shows the time in HH:MM 24 hour format. The colon flashes to show the clock is running. The last digit shows either 'W' during winter periods (ie. GMT) or'S' during summer periods (ie. BST). Also the last digit flashes during times when the time switch settings determine that the relay should be on.

Programming
The Time Clock is simply programmed using the three coloured buttons. The three buttons are used as follows:-
PROG (**Yellow**) Steps between the **PROG** modes (**date times etc**).
RIGHT (**Green**) Moves the curser to the next number.
UP (**Grey**) Increments the number at the curser.
The button auto-repeats if held down for several seconds.
The left half of the display shows a description of the data to be entered, and the right half shows the data as it is entered.

Step by Step Example
Press **PROG** (**Yellow**) button.

Display shows:-
Press and hold (**or repeatedly press**) the **UP** (**Grey**) button until the number at the underlined curser equals the current date (ie. 1-31).
Press **RIGHT (Green)** button once.
The underline curser moves to the months column.
Repeat pressing the **UP** (**Grey**) button until the underlined number equals the current month (ie 1-12)
Press **RIGHT** (**Green**) button once.
The underline curser moves to the years column.
Repeat pressing the **UP** (**Grey**) button until the underlined number equals the current year i.e. (1-99)
Note:- It is important for proper GMT/BST operation that the correct date is entered. When the display shows the correct date:-
Press the **PROG** (**Yellow**) button.

.**Display shows:-**

Using the Green and Grey buttons as previously set the display to the correct time (**24 hour clock**).
Note:- The time entered is always normal 'clock' time i.e. GMT during winter and BST during summer-time.
Press the **PROG** (Yellow) button.
Display shows:-
Using the Green and Grey buttons as before set the time at which you wish the time switch to come on. The third column (**dy**) is the day or days when this setting will operate. When this is underlined each press of the Grey button will step through the available options, which are:-
DY - Every day
MF - Weekdays i.e. Monday to Friday
SS - Weekend i.e. Saturday and Sunday
Mn - Monday Only
Tu - Tuesday Only
Wd - Wednesday Only
Th - Thursday Only
Fr - Friday Only
SA - Saturday Only
Su - Sunday Only
Of - Off i.e. Never

Press the PROG (**Yellow**) button.
Display shows:-
Set the time you wish the time switch to switch off.

Press the yellow button and set the ON and OFF times for the remaining 5 settings.
Note:- If one or more ON/OFF settings are not required then they can be disabled by either:- i. Setting the OFF time to be before, or the same as, the ON time. Ii. Setting the day code to 'Of' After setting the 'OFF 6' time the time switch resets and starts running with the new settings.

Manual Override
A single press of the Grey button changes the state of the output. This stays in operation until the next on or off time is reached, or the Grey button is pressed again, when normal programmed operation resumes.

Clear
If required the time switch can be completely cleared, including the date, time and all ON/OFF settings, by the following procedure.
Press and hold the Yellow button.
Press and hold the Green and Grey buttons for several seconds.
Display shows:- CLEAR? Y/N
Release all three buttons.
Press the Green button until the 'Y' is underlined.
Press the Yellow button.

Option Link
If summer-time correction is not required then cut the 'BST INHIBIT' link on the circuit board.

System Wiring Colour Codes

System Controllers to Functional and Landing Entrance Panels

Controller		Entrance Panel	
1	Brown of White	Button	1
2	White of Brown	Button	2
3	Slate of White	Button	3
4	White of Slate	Button	4
5	Red of Orange	Button	5
6	Orange of Red	Button	6
7	Green of Red	Button	7
8	Red of Green	Button	8
9	Brown of Red	Button	9
10	Red of Brown	Button	10
11	Black of Blue	Button	11
12	Blue of Black	Button	12
13	Black of Orange	Button	13
14	Orange of Black	Button	14
15	Green of Black	Button	15
16	Black of Green	Button	16
CC	Slate of Red and Red of Slate	Button Common	
TR	Brown of Black	Trades Button	
TR	Black of Brown	Trades Button	

Note:
The CC connection on the Controller to the Entrance Panel button common should always be a pair.
I.e. Slate of Red and Red of Slate.

Controller to Entrance Panel Amplifier

Controller		1
1	Blue of White	2
2	White of Blue	+
+	Blue of Red and Red of Blue	-
-	White of Orange and Orange of White	

Controller to Dual and Landing Entrance Panels

Controller		Panel
DML	Black of Slate	DML
SBL	Slate of Black	SBL
FCL	Red of Blue	FCL
0V	Connect to Negative (-) on Panel Amplifier	

Note:
a) The above colour codes are based on a 15 Pair CW1308 Multi-pair cable.
b) The main colour is the first colour stated above. The banding is the second colour stated above. Therefore, a wire stated as Black of Slate would be a Black main colour with a Slate banding.

System Controllers to Telephone Handset

Controller		Monitor
1,C	Blue of White	1
2	White of Blue	2
6	White of Orange and Orange of White	6
9	White of Green	9
PS	Green of White	PS
PL	Brown of White	PL
DL	White of Brown	DL
+	Red of Blue & Blue of Red	R2
-	Grey of White & White of Grey	R1
U(C)	RG59 Coaxial Core	V3
SCN	RG59 Coaxial Screen	V5

Note:
a) The above colour codes are based on a 6 Pair CW1308 Multi-pair cable.
b) The maximum length between the Controller and a Telephone should not exceed 50 metres.

Monitor to Strobe/Sounder

Monitor		Strobe/Sounder
6	Blue of White	-Black
CA	White of Blue	+Red

Controller to Door Contact

Controller		Door Contact
DMS	Green of White	Switch Contact
DMS	White of Green	Switch Contact

Controller to Lock Release Monitor Contacts

Controller		Lock Release Monitoring Contacts
DMS	Green of White	Switch Contact
DMS	White of Green	Switch Contact

Note:
a) The above colour codes are based on a 4 Pair CW1308 Multi-pair cable.
b) If Door Contacts and Lock Release Monitoring Contacts are both to be used, then both switches must be wired in series back to the DMS terminals in the Controller.
c) The main colour is the first colour stated above. The banding is the second colour stated above. Therefore, a wire stated as Black of Slate would be a Black main colour with a Slate banding.

System Wiring Colour Codes cont...

Controller to Lock Release (AC/DC)

Controller	Lock Release (Fail Safe DC)
LC)	Lock Release Connection
)	
SA)	Lock Release Connection

Controller	Lock Release (Fail Secure DC)
LC)	Lock Release Connection
)	
SE)	Lock Release Connection

Controller	Request To Exit Button (Timed)
RTE T	Switch Contact (Normally Open Contacts)
RTE T	Switch Contact (Normally Open Contacts)

Note:
a) the above colour codes are based on a 4 Pair CW1308 Multi-pair cable.
b) The main colour is the first colour stated above.
The banding is the second colour stated above.
Therefore, a wire stated as Black of Slate would be a Black main colour with a Slate banding.

Power Specification

Power Input

System Controller	230VAC
Working Voltage	12AC
Amplifier	6-12VDC

Controller Outputs

Lock Release (Fail Secure)	12VDC (Normally Open)(Rated 1Amp)
Lock Release (Fail Safe)	12VDC (Normally Closed)(Rated 1Amp)
Lock Release (Fail Secure)	12VAC (Normally Open)(Rated 1Amp)
Auxiliary Supply	3 x 12VDC (Rated 3Amp overall)

Battery Back Up:
12V7Ah Sealed Lead Acid Battery

System Controller Default Settings..

The following system functions are selected by using the FUNCTION and DATA dil switches located on the Controller motherboard below the Digital Trade clock.

Each of the above switches contains 8 ON and 8 OFF positions that can be selected in various combinations to achieve varying system functions.

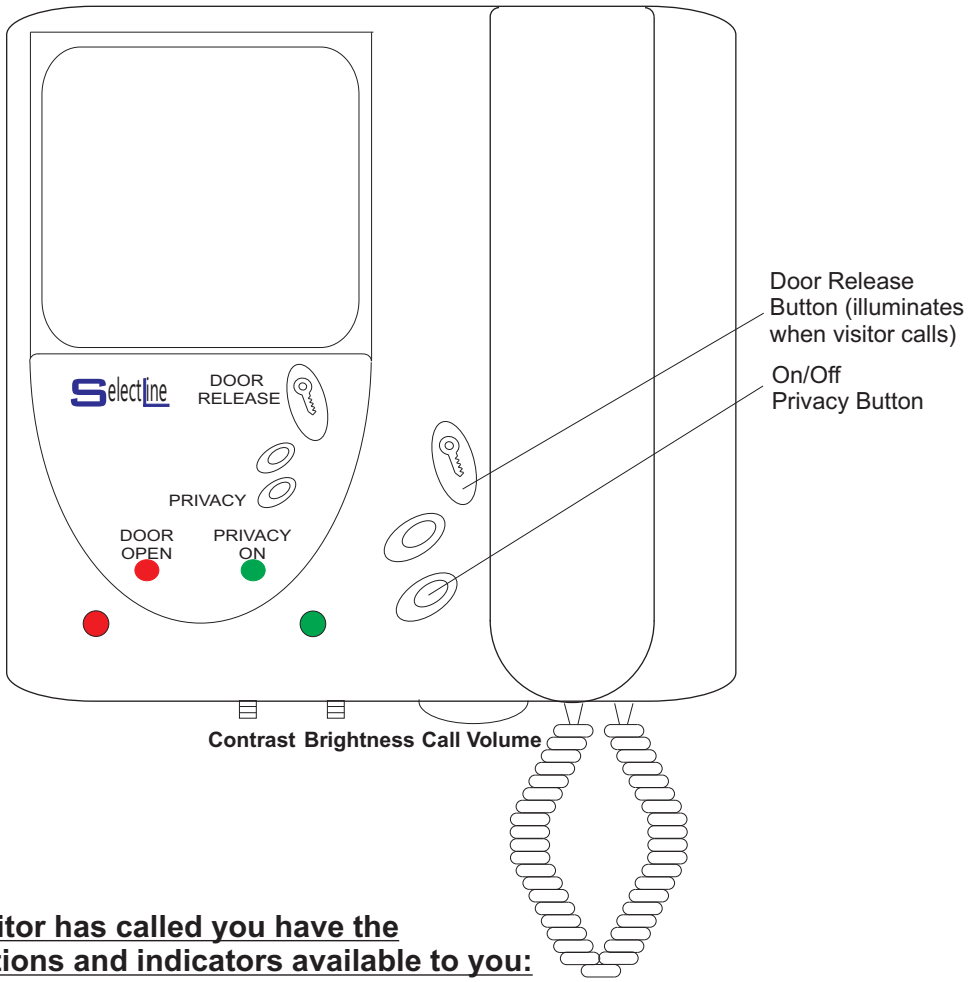
Available Functions:

Description	**Default**
Default settings for all functions	Set
Setting line number for apartment	Set 1 - 16
Serial link set up	OFF
Medium Volume Electronic Call	ON
Privacy Time	8 Hours
Strobe	OFF

Entrance Door 1 (Adjustable Time Functions)	**Default**
Lock Release time	
Telephone Ringing time	10 Seconds
System active duration time	20 Seconds
Door Open Alarm delay time	30 Seconds
Door Open Alarm duration time	OFF
	OFF

Entrance Door 2 (Adjustable Time Functions)	
Lock Release time	
Telephone Ringing time	**Default**
System active duration time	
Door Open Alarm delay time	10 Seconds
Door Open Alarm duration time	20 Seconds
	30 Seconds
	OFF
	OFF

Video Monitor User Instruction Leaflet.



Once the Visitor has called you have the following options and indicators available to you:

To Release the Door
Press the **Door Release button when illuminated** : this will cause the **RED Door Open** indicator to flash to confirm the door is being released for your visitor.

Door Open Warning
Once the Main door has been opened the **RED Door Open** indicator will stop flashing and will stay illuminated until the Entrance door is closed.

To Set Video Monitor Privacy
By pressing the **Privacy Off/On** button you will activate the system timer and illuminate the **GREEN Privacy On** indicator stopping all incoming calls for a timed period.
You can, at any time if you wish, cancel the timed Privacy period by pressing the **Privacy Off/On** Button. This cancellation will be confirmed by the extinguishing of the **GREEN Privacy On** indicator.

To Adjust Call Volume
Rotate the **Call Volume Adjuster** clockwise to decease the call volume or counter-clockwise to increase the call volume.

Select Manufacturing Limited Tel: 01206 855800 Fax: 01206 855801

Functional & Digital Audio/Video Systems

Commissioning/Final Inspection Test Sheet.

Client Name: Site Address: Telephone No.:	Commissioning Engineer: Installer Name:

Controller No. ( )	Line Number	Flat Number.	Call Tone.	Speech.	Lock Release	Door Open Indicator	Privacy Indicator	Video Picture	Comments
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									

Trades		Trades settings	On	Off	On	Off	On	Off	On	Off	

General System Comments: Please use reverse