



Economy functional & digital audio access systems

Video 8 & 16
Functional
Installation Manual

SelectLine
Functional Video

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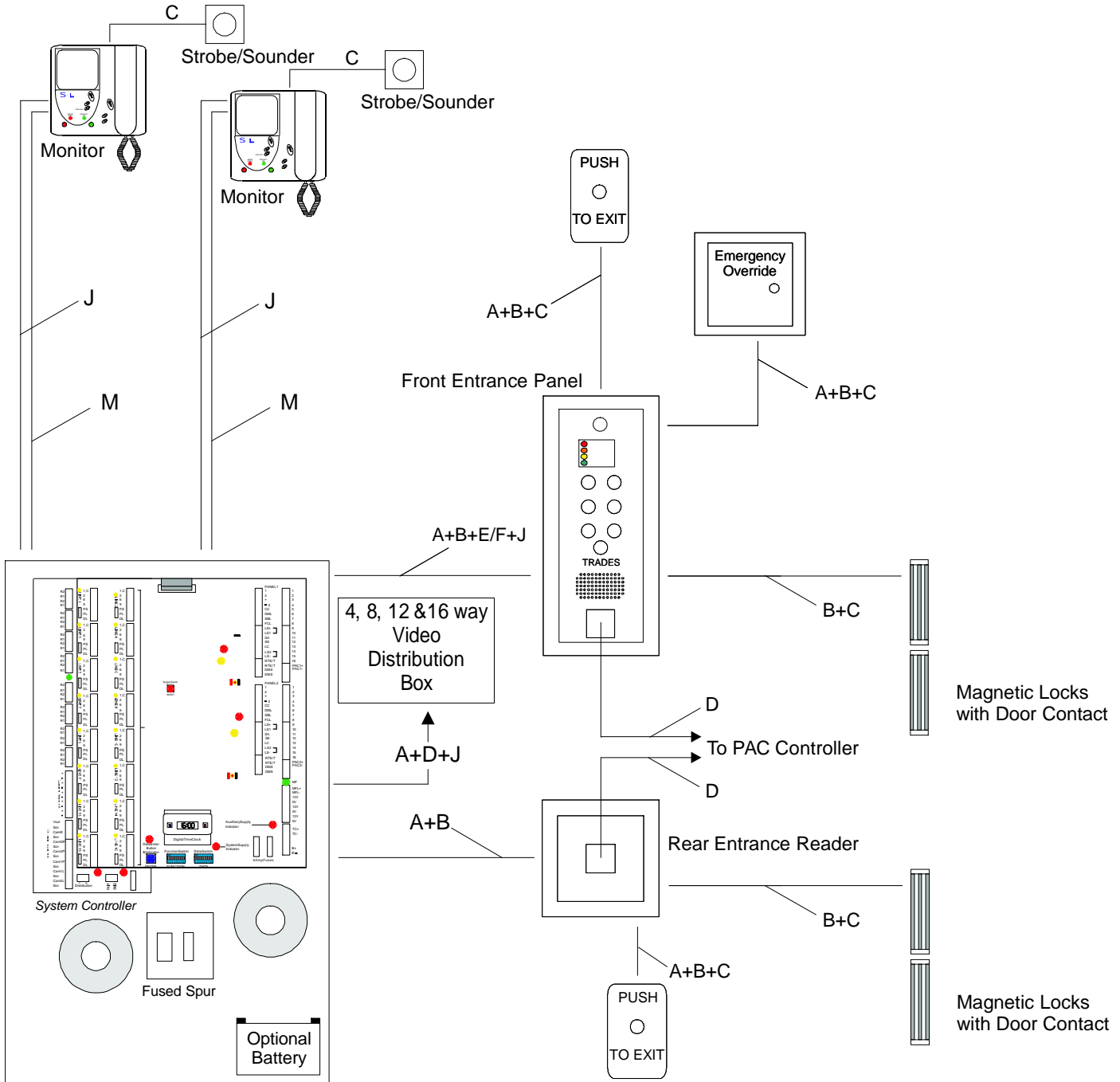
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Functional Video Systems

Functional Video Installation Manual

Functional Video System Overview with a PAC Reader Rear Entrance

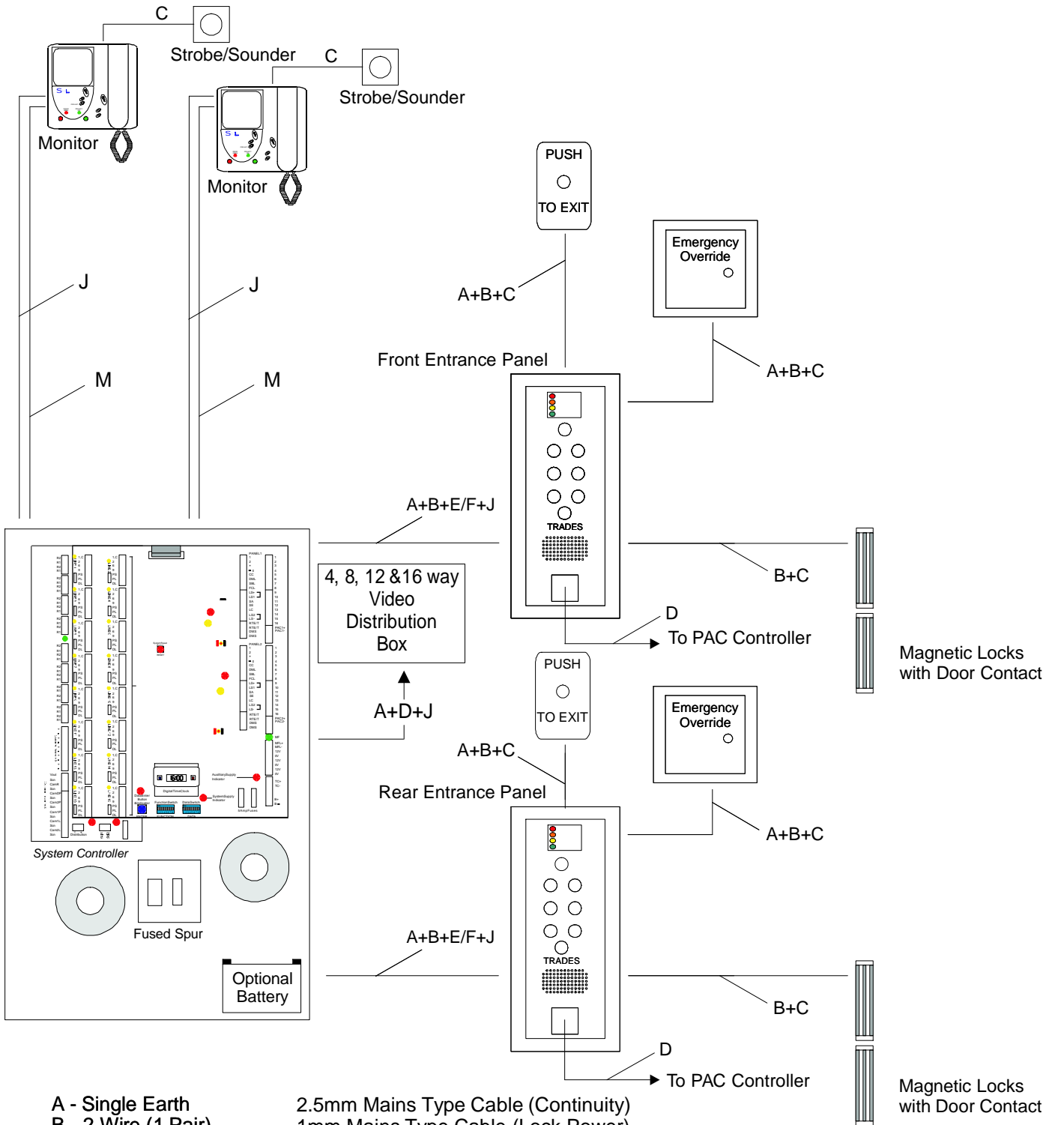


- A - Single Earth
- B - 2 Wire (1 Pair)
- C - 2 Wire (1 Pair)
- D - 8 Wire (4 Pair)
- E - 20 wire (10 Pair)
- F - 30 Wire (15 Pair)
- D - 8 Wire (4 Pair)
- M - 12 Wire (6 Pair)
- J - Coax Cable

- 2.5mm Mains Type Cable (Continuity)
- 1mm Mains Type Cable (Lock Power)
- CW1308 0.5mm dia Multipair Cable (Minimum)
- CW1308 0.5mm dia Multipair Cable (Minimum)
- CW1308 0.5mm dia Multipair Cable (Minimum) up to 6 buttons
- CW1308 0.5mm dia Multipair Cable (Minimum) up to 17 buttons
- CW1308 0.5mm dia Multipair Cable (Minimum)(PAC Reader) Cable up to 100 Metres
- RG59 Coax Cable

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Functional Video System with Two Entrances with PAC Overview

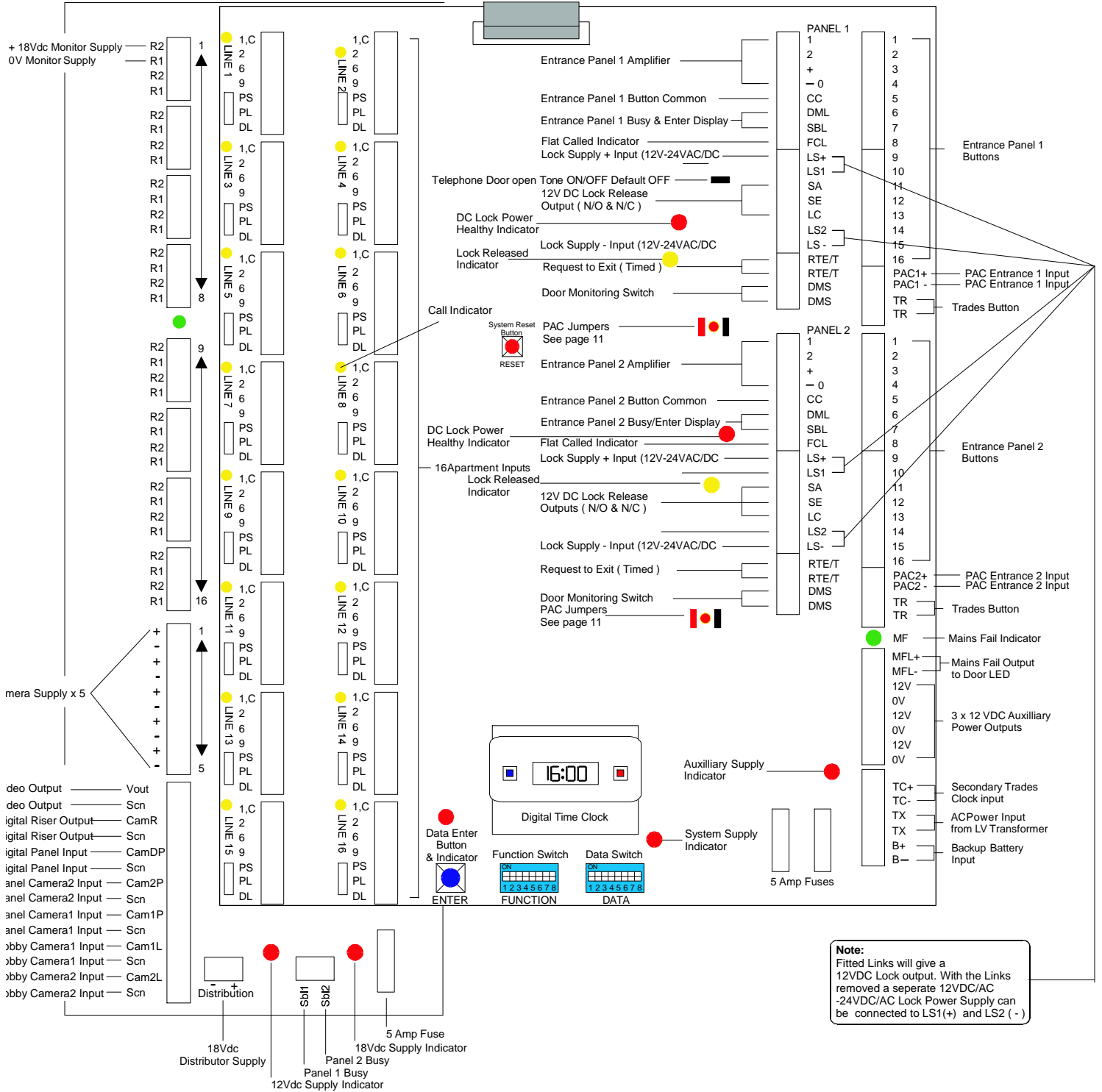


- A - Single Earth
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- E - 20 wire (10 Pair)
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- CW1308 0.5mm dia Multipair Cable (Minimum)(PAC Reader) Cable up to 100 Metres
- RG59 Coax Cable

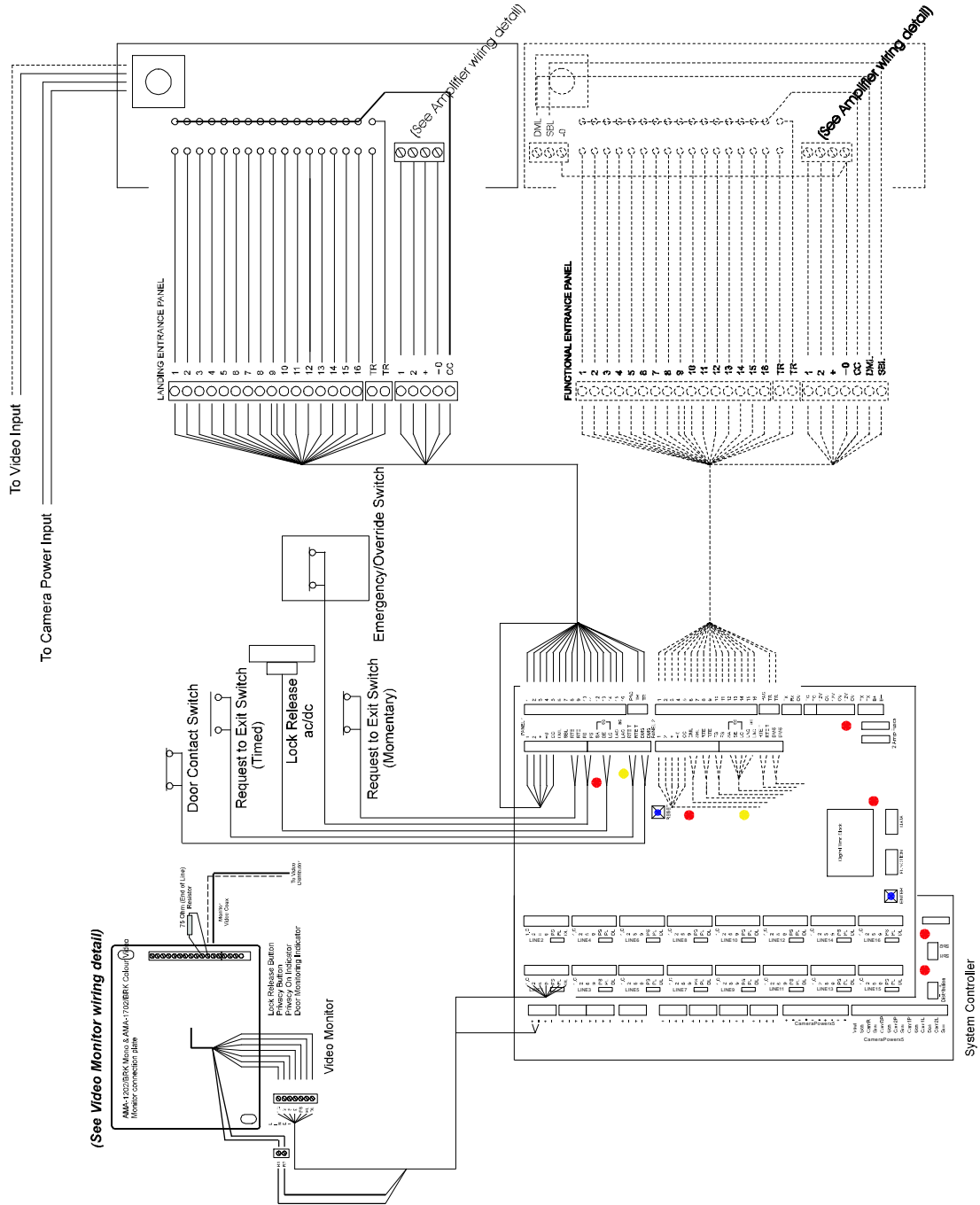
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Functional System Controller Overview



Functional Video Installation Manual

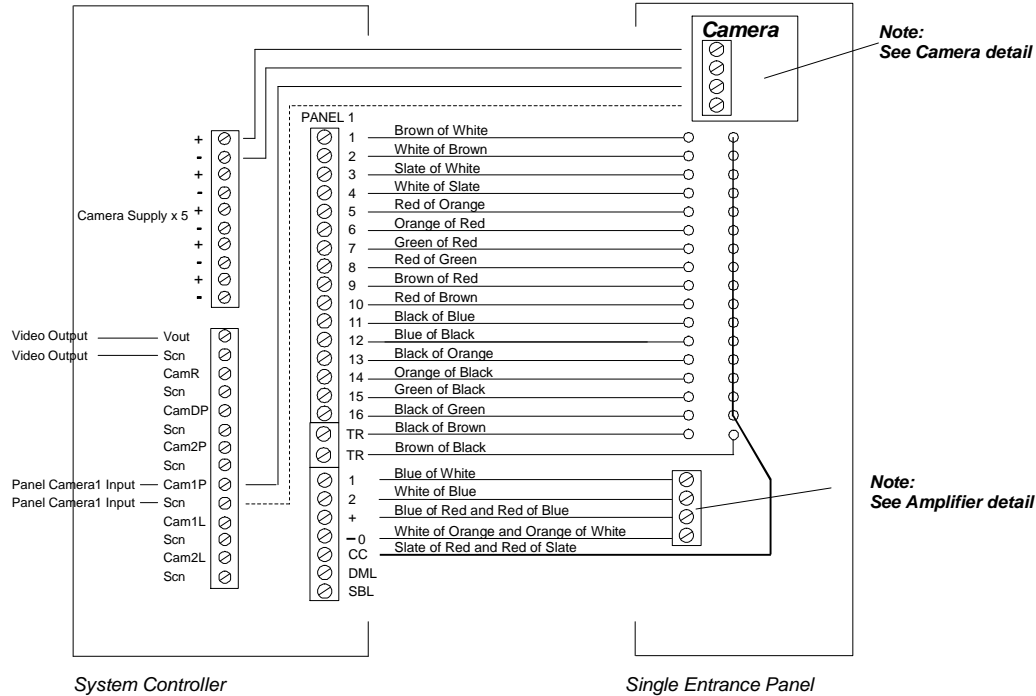
Functional System Wiring Overview



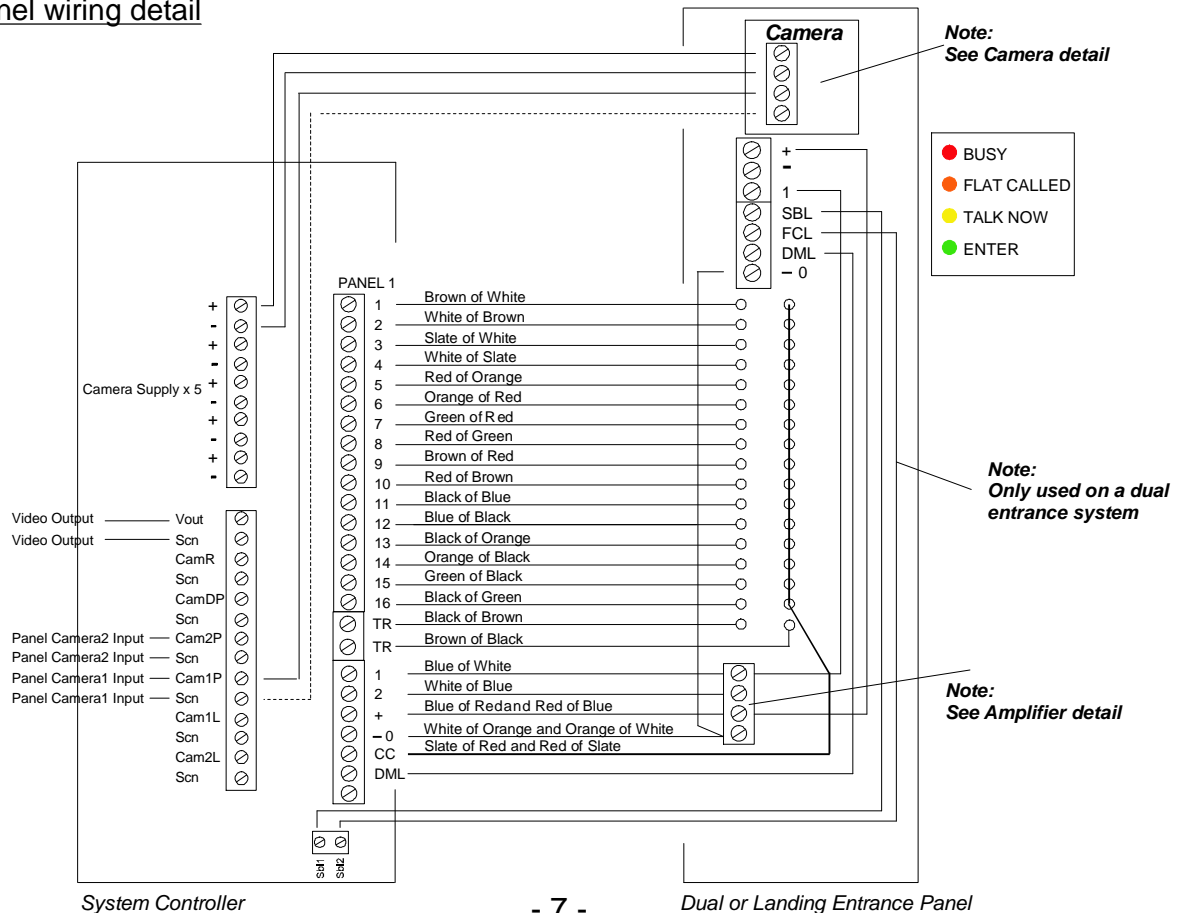
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Single and Dual Panels

Single Panel wiring detail



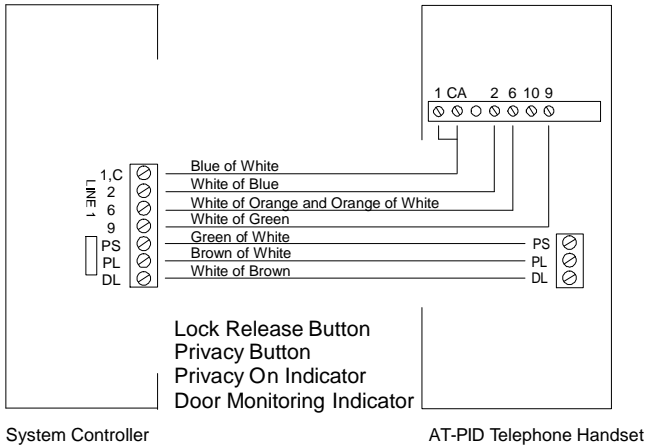
Dual Panel wiring detail



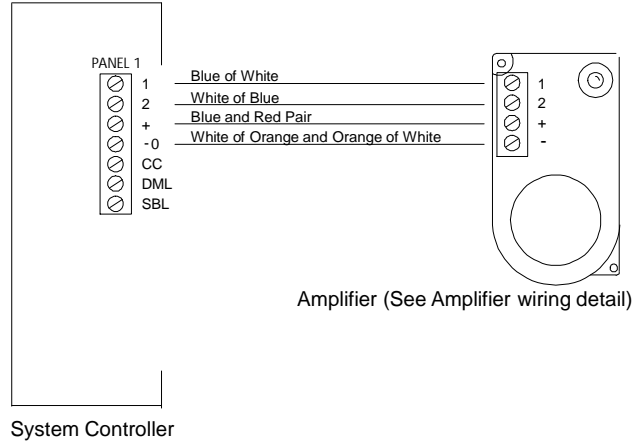
Functional Video Installation Manual

AT-PID Telephone

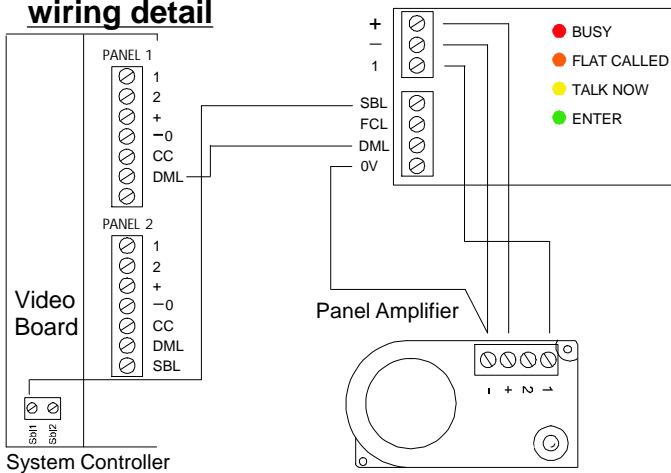
Privacy, Privacy On Indicator and Door Monitoring Indicator wiring detail



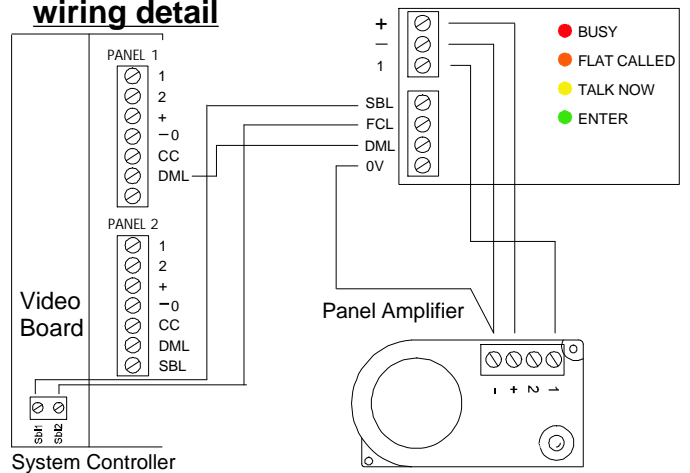
Panel Amplifier wiring detail



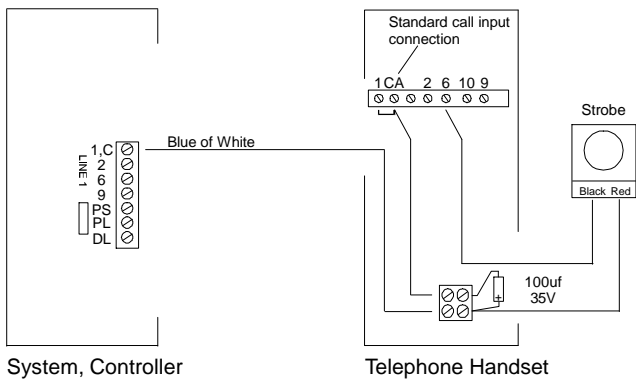
Entrance Panel 1 DDA Display wiring detail



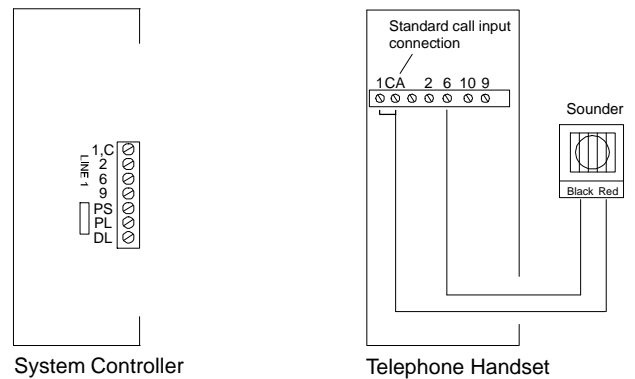
Entrance Panel 2 DDA Display wiring detail



Strobe wiring detail



Sounder wiring detail

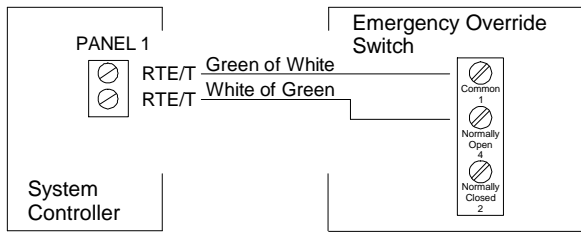


Note:

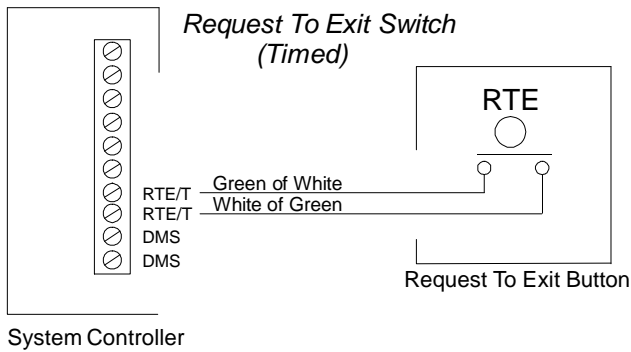
Please refer to the Controller Programming Instruction sheet in the Functional & Digital Installation Manual on how to initiate the powering of the Strobe.

Functional Video Installation Manual

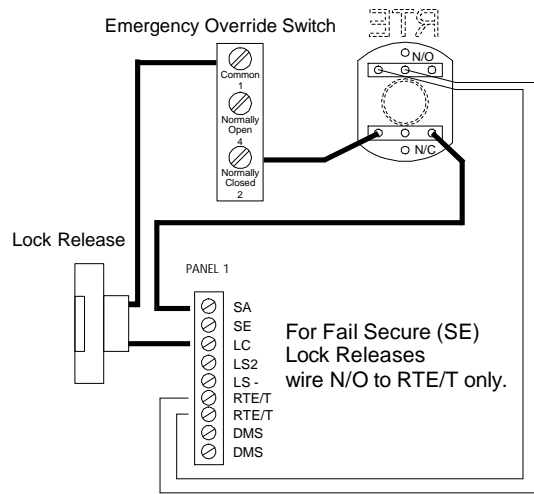
For Fail Secure (SE) Lock Releases.



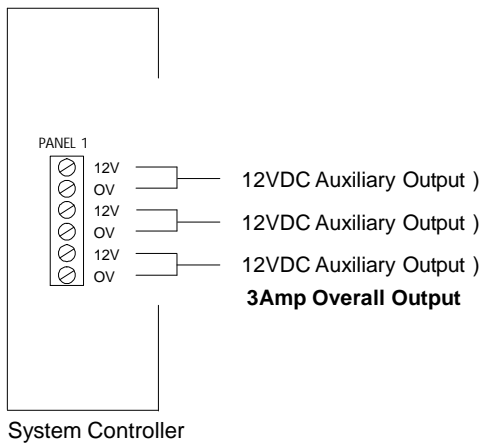
Request To Exit (Timed) wiring detail



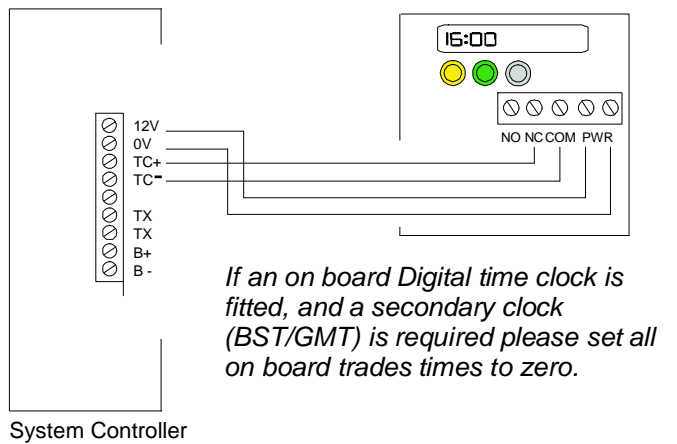
For Fail Safe (SA) Lock Releases. For Landing Panels only



12VDC Auxiliary Output wiring detail

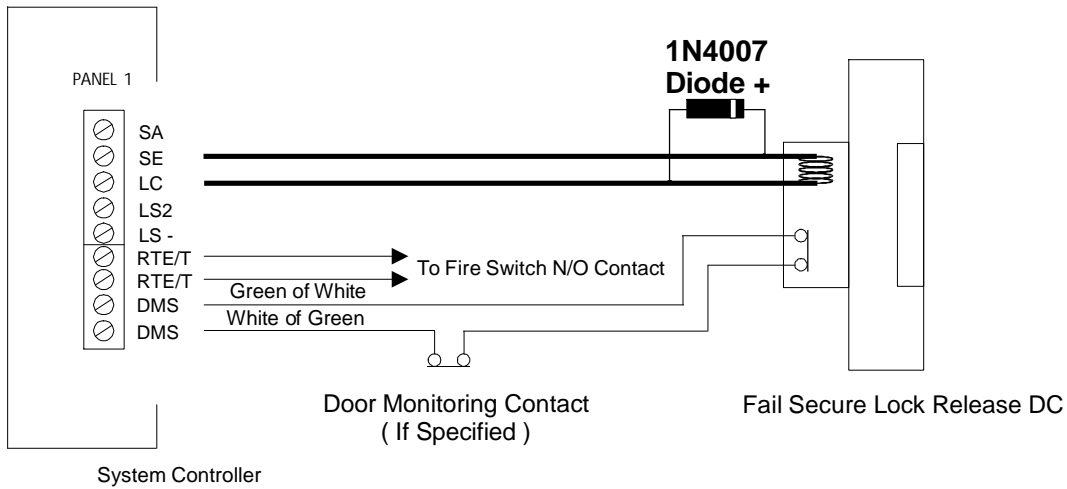


External Time Clock wiring detail

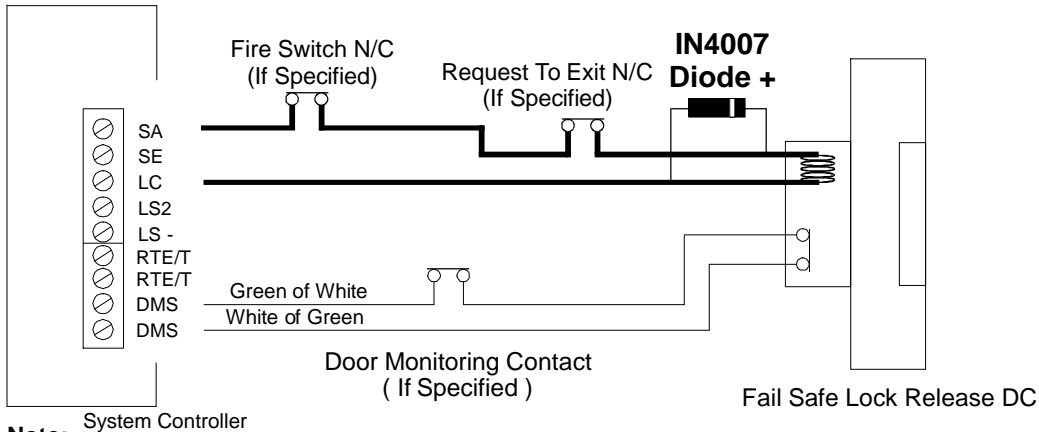


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DC Fail Secure Lock Release wiring detail



DC Fail Safe Lock Release wiring detail

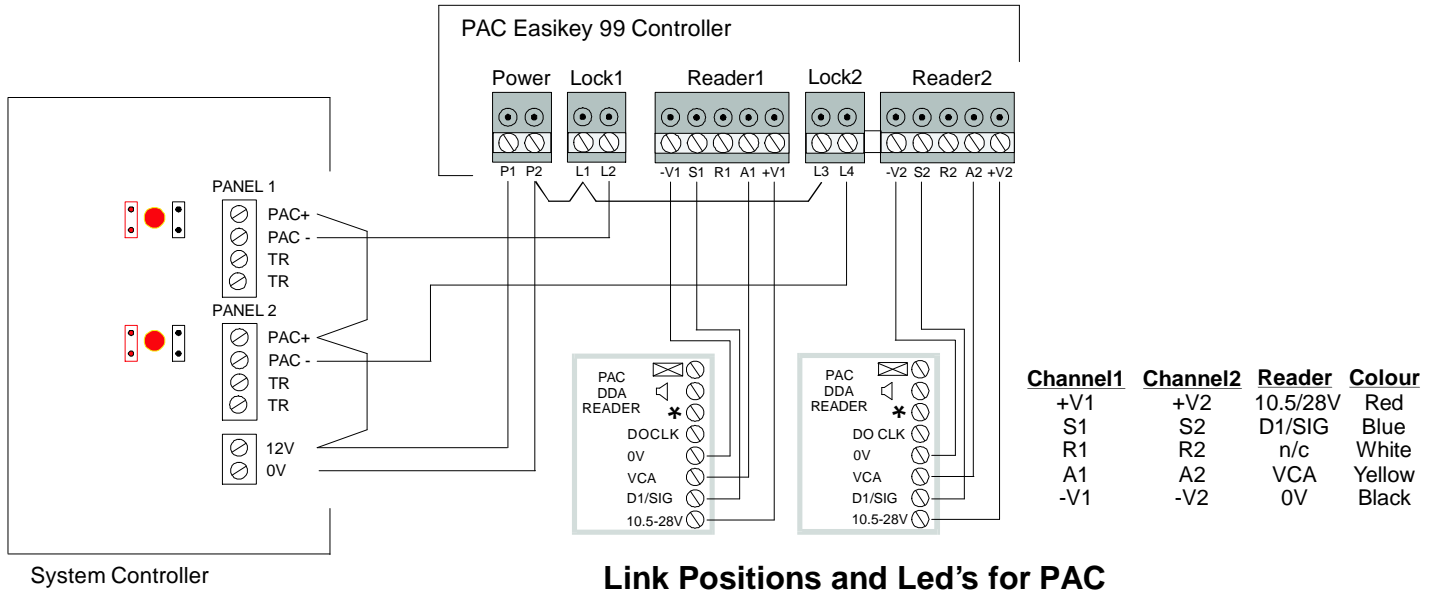


Note:

- 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.

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Proximity Access wiring detail



Link Positions and Led's for PAC

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

Without PAC

SelectLine Controller 2000 Iss 2

Link 2 (Red) **ON**/ No PAC

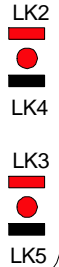
LED D21 Red Led is **ON** in this mode

Link 4 (Black) **ON**/ No PAC

Link 3 (Red) **ON**/ No PAC

LED D23 Red Led is **ON** in this mode

Link 5 (Black) **ON**/ No PAC



Easikey 1000/2200 Using PAC 12VDC Lock Output

SelectLine Controller 2000 Iss 2

Link 2 **OFF**/ PAC powered

LED D21 Led is **ON** in this mode

Link 4 **OFF**/ PAC powered

Link 3 **OFF**/ PAC powered

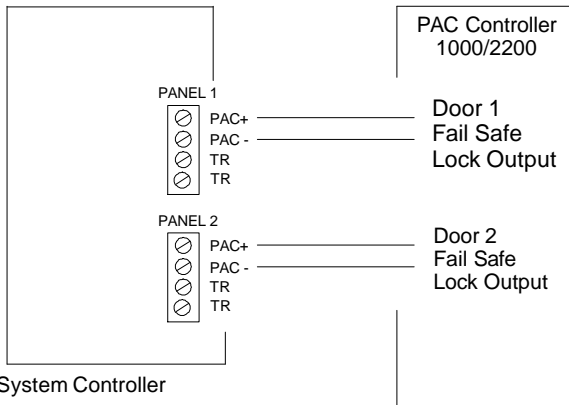
LED D23 Led is **ON** in this mode

Link 5 **OFF**/ PAC powered



Note:

The Link LED will be ON in normal Door Entry mode but will extinguish on Lock Release and will re-illuminate on PAC Controller Lock time out.

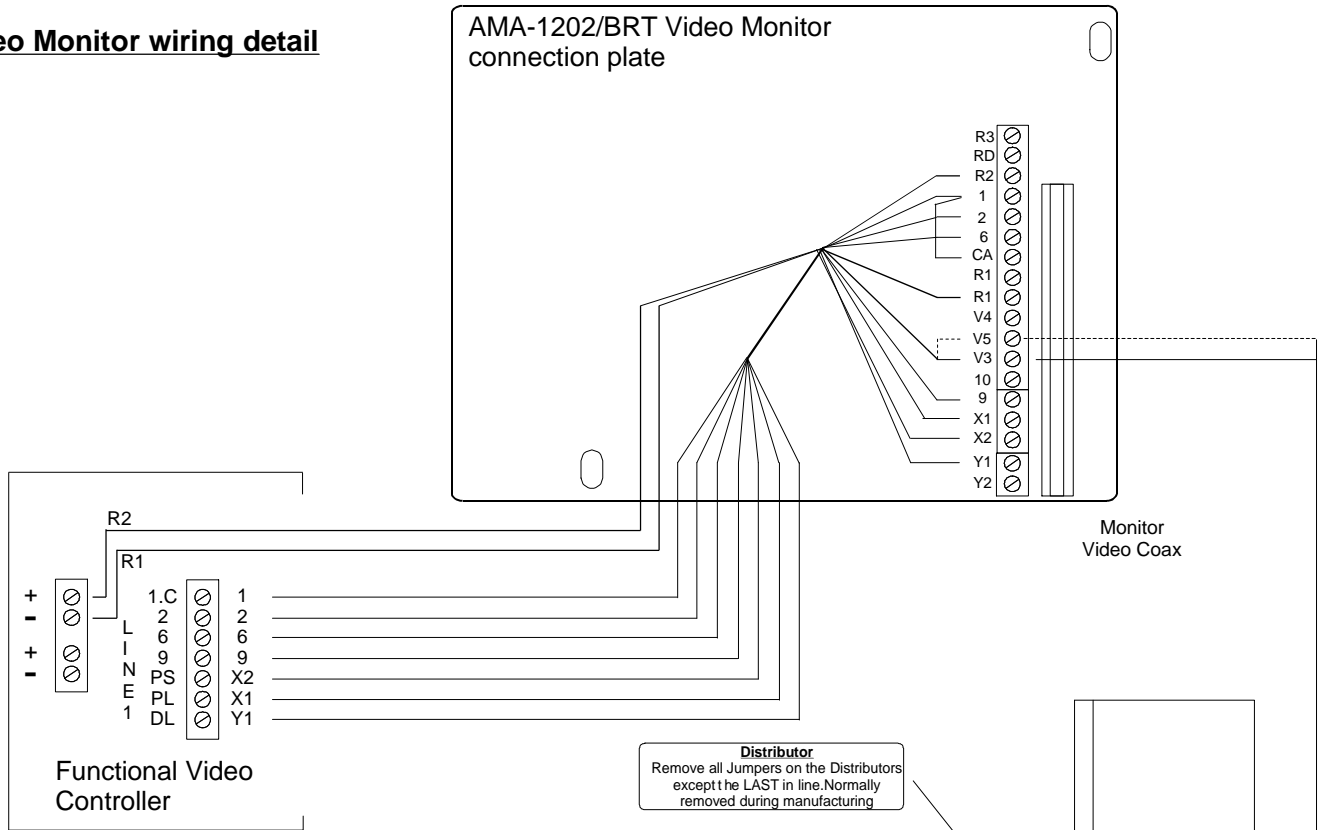


Note:
Please ensure that the PAC/Access Controller is programmed to Fail Safe Lock output and is timed for 2 second Lock Release time.

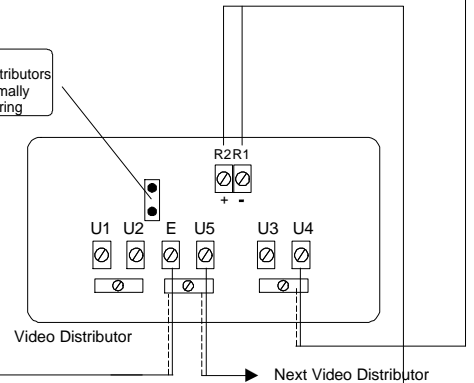
Note:
Please ensure that the PAC/Access Controller is programmed to Fail Safe Lock output and is timed for 2 second Lock Release time.

Functional Video Installation Manual

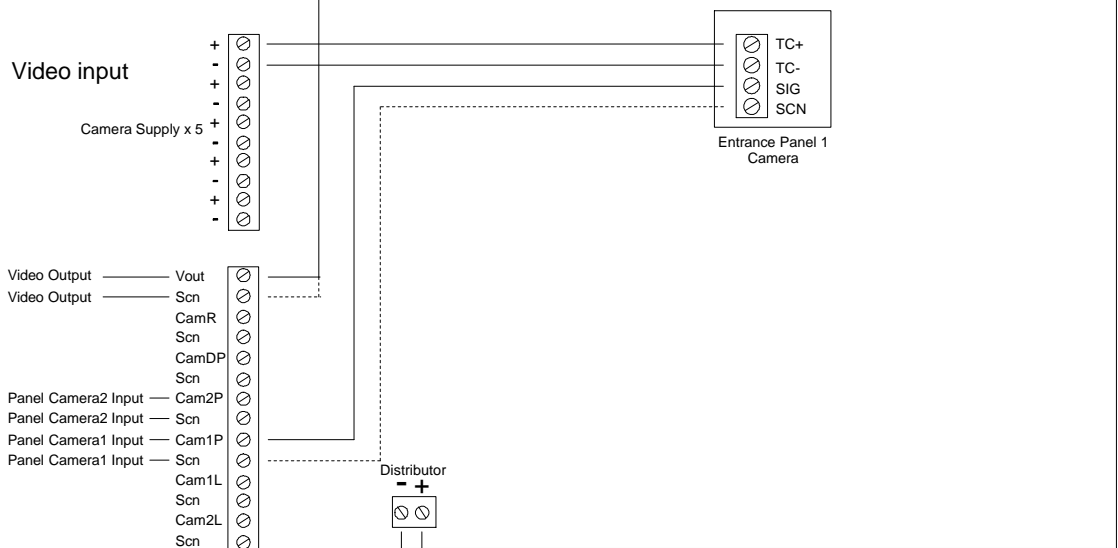
Video Monitor wiring detail



Video Distributor wiring detail



Camera connection wiring detail



Functional Video Installation Manual

System Controller Summary

Connection Detail

Controller

1,C
2
6
9
PS
PL
DL
R1
R2

Video Monitor

Speaker/Electronic Call
Microphone
Common
Lock Release
Privacy Switch
Privacy On Indicator
Door Monitoring Indicator
0V Monitor Supply
12VDC Monitor Supply

Panel Amplifier Detail

1
2
+
-

Speaker
Microphone
+6VDC
-6VDC

Entrance Panel Detail

DML
SBL
CC

Door Monitor/Release Indicator
System Busy Indicator
Button Common

Trades Detail

TR1
TR2

Trades Button
Trades Button

Request To Exit

RTE
RTE

Request To Exit (Momentary)
Request To Exit (Momentary)

RTET
RTET

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

Lock Release Detail

LC
SA
SE
LAC
LAC

Lock Common (DC)
Fail Safe (DC)
Fail Secure (DC)
Fail Secure (DC)
Fail Secure (DC)

PAC Detail

PAC

PAC Pre-wired Lock Release

Serial Connection

Tx
Rx
0V

Transmit
Receive
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

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Installation Manual

System Controller Summary cont...

Connection Detail
Controller

0V
12V
Note: 3 Amp (3 x 12VDC)
Overall Output

TX
TX

B+
B-

Sbl1
Sbl2

+)
) Distribution
-)

Vout
Scn
CamR
Scn
CamDP
Scn
Cam2P
Scn
Cam1P
Scn
Cam1L
Scn
Cam2L
Scn

+)
) Camera Supply
-)

R1)
) Monitor Output
R2)

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 Busy Output to Functional Panel

Panel 1 Busy Indicator
Panel 2 Busy Indicator

Video Distribution

+ 18VDC Distributor Supply

0V Distributor Supply

Video Inputs and Outputs

Video Signal Output to Distributor
Video Screen Output to Distributor
Video Riser Signal Output
Video Riser Screen Output
Video Digital Panel Camera Signal Input
Video Digital Panel Camera Screen Input
Video Functional Panel 2 Camera Signal Input
Video Functional Panel 2 Camera Screen Input
Video Functional Panel 1 Camera Signal Input
Video Functional Panel 1 Camera Screen Input
Video Lobby/Landing Panel 1 Camera Signal Input
Video Lobby/Landing Panel 1 Camera Screen Input
Video Lobby/Landing Panel 2 Camera Signal Input
Video Lobby/Landing Panel 2 Camera Screen Input

Camera 12Vdc Output x 5

+ 12VDC Camera Supply

- 0V Camera Supply

Monitor Supply

18VDC Monitor Supply

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.

Functional Video Installation Manual

Controller Programming Settings

| SYSTEM CONFIGURATION | | Notes | FUNCTION SWITCH | DATA SWITCH |
|--|---|-------|-----------------|-----------------|
| 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 |

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

| | |
|--|---|
| <p>Note:</p> <ol style="list-style-type: none"> 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. | <p>1 = ON 0 = OFF L = Line Number (Telephone) P = Privacy Time (Telephone) E = Extension Strobe/Sounder as required (See note 1)</p> <p>X = Any Position S = Seconds M = Minutes N = Number</p> |
|--|---|

| LINE SELECTION (L) | | TIME SELECTION (M/S) & CONTROLLER ADDRESS (N) | | | PRIVACY TIMER SELECTION (P) | | | | | | | |
|--------------------|-----------------|---|---|---|-----------------------------|-------------|-----------------------------------|-----------------------------|--|--|--|---|
| Line Number | Function Switch | | | | | Data Switch | Number of (M)inutes or (S)seconds | Controller Address (N)umber | Privacy Timer | | Data Switch | |
| | 1 | 2 | 3 | 4 | 5 | | | | (M)inutes and Hours | | 1 | 2 |
| 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | <p>Note:</p> <ol style="list-style-type: none"> 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. | | 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 | |
| 2 | 0 | 1 | 0 | 0 | 0 | 2 | 2 | | | | | |
| 3 | 1 | 1 | 0 | 0 | 0 | 3 | 4 | | | | | |
| 4 | 0 | 0 | 1 | 0 | 0 | 4 | 8 | | | | | |
| 5 | 1 | 0 | 1 | 0 | 0 | 5 | 16 | | | | | |
| 6 | 0 | 1 | 1 | 0 | 0 | 6 | 32 | | | | | |
| 7 | 1 | 1 | 1 | 0 | 0 | 7 | 64 | | | | | |
| 8 | 0 | 0 | 0 | 1 | 0 | 8 | 128 | | | | | |
| 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 | | | | | | | |

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Controller Programming Example Settings

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

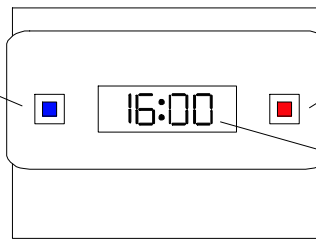
| LINE SELECTION (L) | | | | | | TIME SELECTION (M/S) | | | PRIVACY TIMER SELECTION (P) | | | | |
|----------------------|-----------------|---|---|---|---|------------------------|-----------------------------------|---------------------|--|-------------|---|---|---|
| Line Number | Function Switch | | | | | Data Switch | Number of (M)inutes or (S)seconds | Privacy Timer | | Data Switch | | | |
| | 1 | 2 | 3 | 4 | 5 | | | (M)inutes and Hours | | 1 | 2 | 3 | 4 |
| 1 | 1 | 0 | 0 | 0 | 0 | 1 | ON | 1 | NO TIME (remains on until manually switched off) | - | - | - | - |
| 2 | 0 | 1 | 0 | 0 | 0 | 2 | ON | 2 | 10 Minutes | 0 | 1 | 0 | 0 |
| 3 | 1 | 1 | 0 | 0 | 0 | 4 | ON | 4 | 20 Minutes | 0 | 0 | 1 | 0 |
| 4 | 0 | 0 | 1 | 0 | 0 | 8 | ON | 8 | 30 Minutes | 0 | 1 | 1 | 0 |
| 5 | 1 | 0 | 1 | 0 | 0 | 16 | ON | 16 | 40 Minutes | 0 | 0 | 0 | 1 |
| 6 | 0 | 1 | 1 | 0 | 0 | 32 | ON | 32 | 50 Minutes | 0 | 1 | 0 | 1 |
| 7 | 1 | 1 | 1 | 0 | 0 | 64 | ON | 64 | 60 Minutes | 0 | 0 | 1 | 1 |
| 8 | 0 | 0 | 0 | 1 | 0 | 128 | ON | 128 | 70 Minutes | 0 | 1 | 1 | 1 |
| 9 | 1 | 0 | 0 | 1 | 0 | | | | 2 Hours | 1 | 0 | 0 | 0 |
| 10 | 0 | 1 | 0 | 1 | 0 | | | | 4 Hours | 1 | 1 | 0 | 0 |
| 11 | 1 | 1 | 0 | 1 | 0 | | | | 6 Hours | 1 | 0 | 1 | 0 |
| 12 | 0 | 0 | 1 | 1 | 0 | | | | 8 Hours | 1 | 1 | 1 | 0 |
| 13 | 1 | 0 | 1 | 1 | 0 | | | | 10 Hours | 1 | 0 | 0 | 1 |
| 14 | 0 | 1 | 1 | 1 | 0 | | | | 12 Hours | 1 | 1 | 0 | 1 |
| 15 | 1 | 1 | 1 | 1 | 0 | | | | 14 Hours | 1 | 0 | 1 | 1 |
| 16 | 0 | 0 | 0 | 0 | 1 | | | | 16 Hours | 1 | 1 | 1 | 1 |

| | | |
|---|--|--|
| 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. | | |

Functional Video Installation Manual

Digital Trades Clock Operating Instructions

Change Button
Sets Hours, Minutes
and Trade Times



Programme Button
Used to select the clock time and the 4
On/Off programmed times and to review
them once set

Output Status
Showing Trades
ON or OFF

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 **Programme 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 **Programme 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 may be set using the **Change Button**. Once the **Programme 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 as 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 One 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**.

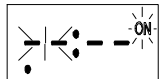


ii. Minute Setting- Press the **Programme Button** once to select the minutes display shows clock symbol and minute digits flashing. Press the **Change Button** to advance the minutes setting.



Note: For rapid minute selection press and hold the **Change Button** (16 hours shown as example of hours set).

iii. Press the **Programme 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)

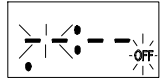
Program 1 ON time

i. Press **Change Button** to advance the hour setting.

ii. Press the **Programme 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 **Programme 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

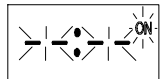
To fast review the set program or for quick exit to normal operating mode press and hold the **Programme Button**

5. Initiating Programme Mode

This can be initiated at any time during the normal operating mode. Press **Programme 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 **Programme 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

Severalls Business Park

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.

06/03/02 17:11 S

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 cursor to the next number.

UP (Grey) Increments the number at the cursor.

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.

DATE ? 06/03/02

Display shows:-

Press and hold (or repeatedly press) the **UP (Grey)** button until the number at the underlined cursor equals the current date (ie. 1-31).

Press **RIGHT (Green)** button once.

The underline cursor 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 cursor 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:-

TIME ? 17:12:56

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

ON 1 ? 7:15 DY

Press the **PROG (Yellow)** button.

Display shows:-

Set the time you wish the time switch to switch off.

OFF 1 ? 7:30

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.

Functional Video
Installation Manual

System Wiring Colour Codes

**System Controllers to
Functional and Landing Entrance Panels**

| <u>Controller</u> | <u>Entrance Panel</u> |
|----------------------------------|------------------------------|
| 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

| <u>Controller</u> | <u>Amplifier</u> |
|---------------------------------------|-------------------------|
| 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

| | |
|--------------------|-----|
| DML Black of Slate | DML |
| SBL Slate of Black | DML |

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**

| <u>Controller</u> | <u>Monitor</u> |
|---------------------------------------|-----------------------|
| 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

| <u>Monitor</u> | <u>Strobe/Sounder</u> |
|-----------------------|------------------------------|
| 6 Blue of White | -Black |
| CA White of Blue | +Red |

Controller to Door Contact

| <u>Controller</u> | <u>Door Contact</u> |
|--------------------------|----------------------------|
| DMS Green of White | Switch Contact |
| DMS White of Green | Switch Contact |

Controller to Lock Release Monitor Contacts

| <u>Controller</u> | <u>Lock Release Monitoring Contacts</u> |
|--------------------------|--|
| 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 |
| |) | 1mm Twin Mains Type Cable | |
| SA |) | | Lock Release Connection |

Controller Lock Release (Fail Secure DC)

| | | | |
|----|---|---------------------------|-------------------------|
| LC |) | | Lock Release Connection |
| |) | 1mm Twin Mains Type Cable | |
| SE |) | | Lock Release Connection |

Controller Lock Release (Fail Secure AC)

| | | | |
|-----|---|---------------------------|-------------------------|
| LAC |) | | Lock Release Connection |
| |) | 1mm Twin Mains Type Cable | |
| LAC |) | | Lock Release Connection |

Controller to Firemans/Override Switch

Controller Firemans/Override Switch

| | | |
|----|----------------|---|
| FS | White of Green | Switch Contact (Normally Closed Contacts) |
| FS | Green of White | Switch Contact (Normally Closed Contacts) |

Controller to Request to Exit Button (Momentary)

Controller Request To Exit Button (Momentary)

| | | |
|-----|----------------|---|
| RTE | White of Green | Switch Contact (Normally Closed Contacts) |
| RTE | Green of White | Switch Contact (Normally Closed Contacts) |

Controller Request To Exit Button (Timed)

| | | |
|-------|----------------|---|
| RTE T | White of Green | Switch Contact (Normally Open Contacts) |
| RTE T | Green of White | 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 dii 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 |

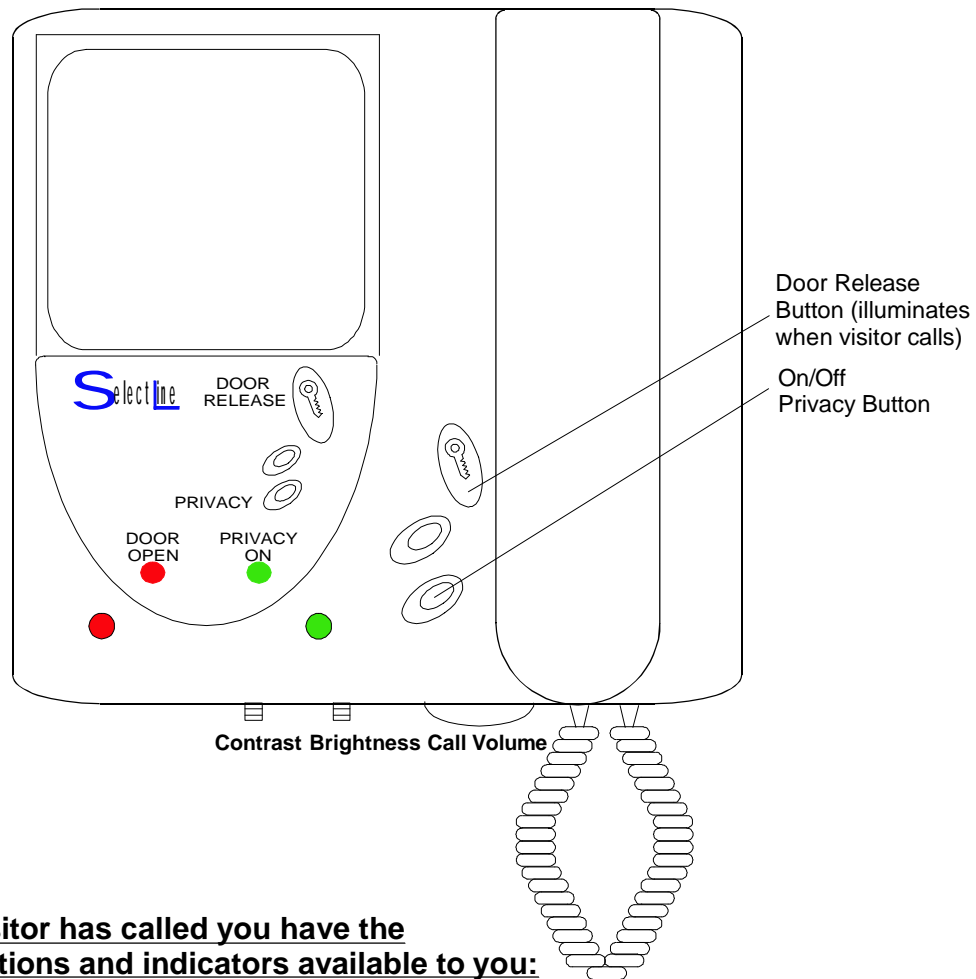
Entrance Door 2 (Adjustable Time Functions)

Default

| | |
|-------------------------------|------------|
| Lock Release time | |
| Telephone Ringing time | |
| System active duration time | |
| Door Open Alarm delay time | 10 Seconds |
| Door Open Alarm duration time | 20 Seconds |
| | 30 Seconds |
| | OFF |
| | OFF |

Functional Video Installation Manual

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 decrease the call volume or counter-clockwise to increase the call volume.

Functional Video
Installation Manual

Select Manufacturing Limited Tel: 01206 855800 Fax: 01206 855801

Functional & Digital Audio Systems
Commissioning/Final Inspection Test Sheet.



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

| 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