# GDX5 LITE 8, 16, 24 OR 32 WAY LOW RISE INDIGO ACCESS AUDIO DOOR ENTRY SYSTEM CONNECTION SCHEMATIC      DRAWING NO : 0024



**GDX HANDSET 1**

9705/002

1 2 3 4

**APARTMENT STATION WIRING IS IDENTICAL TO HANDSET WIRING.**

**3 PAIR CW1308 CABLE (MAXIMUM 50 METRES)**

WHITE/BLUE — BLUE/WHITE — WHITE/ORANGE — ORANGE/WHITE

THE CABLING SPECIFICATIONS QUOTED ARE NOT VALID FOR UNDERGROUND CABLING.

ALL POWER CABLE SPECIFICATIONS GIVEN ARE ILLUSTRATIVE ONLY AND MUST BE SELECTED DEPENDANT ON SITE SPECIFIC CABLE LENGTHS AND LOCK TYPES TO AVOID EXCESSIVE VOLTAGE DROP WITHIN CABLING.

If Radio Interference Is Picked Up On The Handset Cabling Then Unconnected Cores Within A Handset Cable Should Be Grounded to 0V (No 3 Screw) At Both Ends Of The Cable.

If This Is Not Effective In Dealing With The Problem Then A Suitable Screened Cable Can Be Utilised To Prevent The Pickup.

If This Is Still Not Effective Then A Ferrite Core (Steward Part No 28B1020-100) Should Be Added Onto The Handset Cabling Output Within The Control Rack Enclosure (Grouped In 4's).

**GDX HANDSET 8**

9705/002

1 2 3 4

**APARTMENT STATION WIRING IS IDENTICAL TO HANDSET WIRING.**

**3 PAIR CW1308 CABLE (MAXIMUM 50 METRES)**

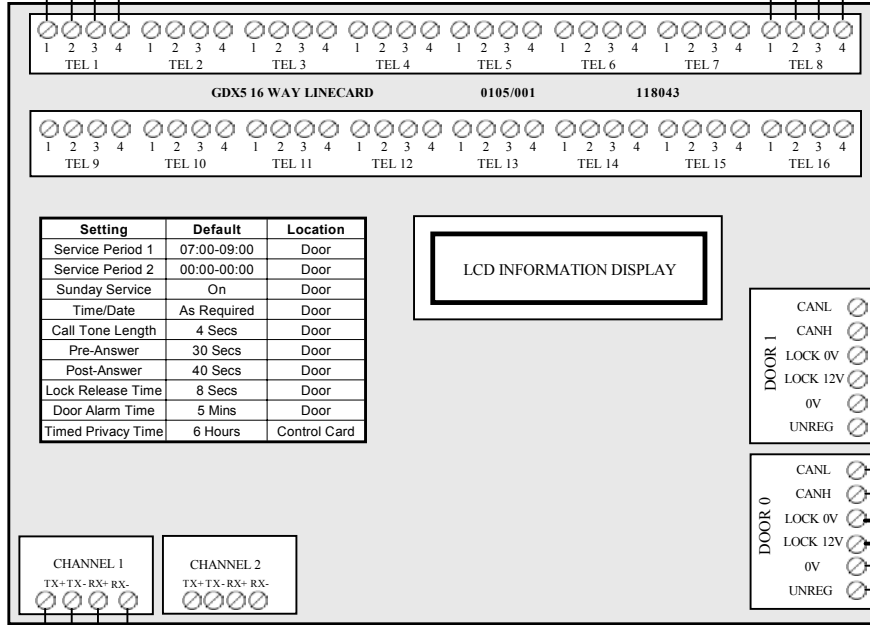WHITE/BLUE — BLUE/WHITE — WHITE/ORANGE — ORANGE/WHITE

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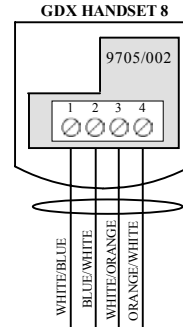
A PARALLEL SLAVE HANDSET CAN BE ADDED ONTO A MAIN HANDSET.

REMOVE LINKS LK1 & LK2 IN THE 2ND HANDSET **ONLY** AND CONNECT WIRES 1,2,3,4 & "EXT PRIV+" BETWEEN THE TWO HANDSETS.
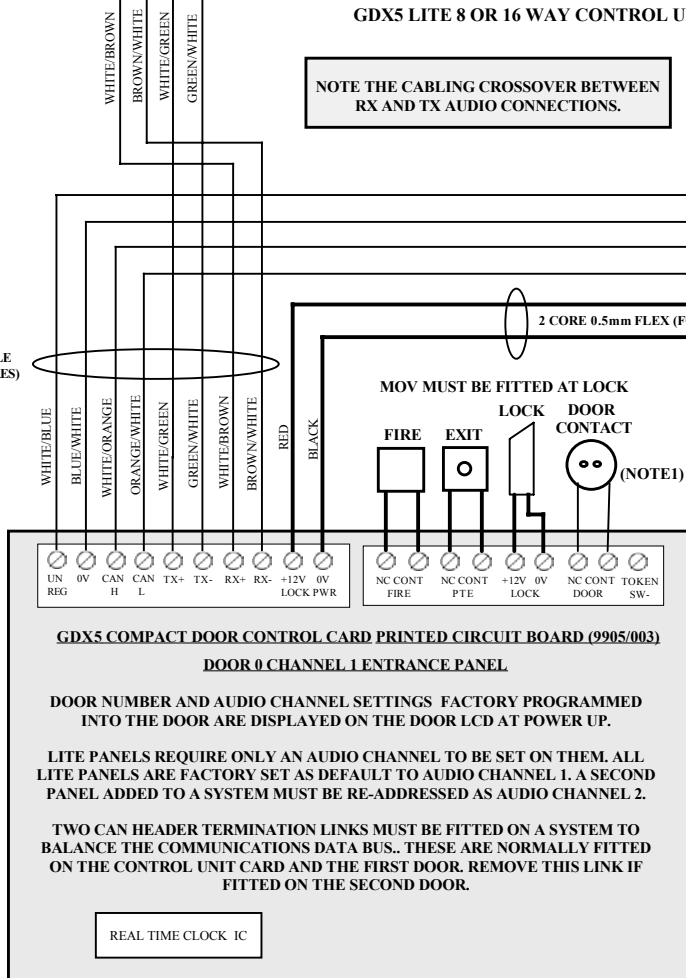
ONLY 1 PARALLEL SLAVE HANDSET CAN ADDED PER MAIN HANDSET.

THIS APPLIES TO APT STATIONS ALSO BUT NOT TO VIDEO HANDSETS. ONLY A SLAVE AUDIO HANDSET CAN BE ADDED ONTO A MAIN VIDEO HANDSET.

1 2 3 4 — TEL 1 | 1 2 3 4 — TEL 2 | 1 2 3 4 — TEL 3 | 1 2 3 4 — TEL 4 | 1 2 3 4 — TEL 5 | 1 2 3 4 — TEL 6 | 1 2 3 4 — TEL 7 | 1 2 3 4 — TEL 8

**GDX5 16 WAY LINECARD      0105/001      118043**

1 2 3 4 — TEL 9 | 1 2 3 4 — TEL 10 | 1 2 3 4 — TEL 11 | 1 2 3 4 — TEL 12 | 1 2 3 4 — TEL 13 | 1 2 3 4 — TEL 14 | 1 2 3 4 — TEL 15 | 1 2 3 4 — TEL 16

| Setting | Default | Location |
|---|---|---|
| Service Period 1 | 07:00-09:00 | Door |
| Service Period 2 | 00:00-00:00 | Door |
| Sunday Service | On | Door |
| Time/Date | As Required | Door |
| Call Tone Length | 4 Secs | Door |
| Pre-Answer | 30 Secs | Door |
| Post-Answer | 40 Secs | Door |
| Lock Release Time | 8 Secs | Door |
| Door Alarm Time | 5 Mins | Door |
| Timed Privacy Time | 6 Hours | Control Card |

LCD INFORMATION DISPLAY

**DOOR 1**
CANL — CANH — LOCK 0V — LOCK 12V — 0V — UNREG

**DOOR 0**
CANL — CANH — LOCK 0V — LOCK 12V — 0V — UNREG

ORANGE/WHITE — WHITE/ORANGE — BLACK — RED — BLUE/WHITE — WHITE/BLUE

**CHANNEL 1**
TX+ TX- RX+ RX-

**CHANNEL 2**
TX+ TX- RX+ RX-

WHITE/BROWN — BROWN/WHITE — WHITE/GREEN — GREEN/WHITE

**GDX5 LITE 8 OR 16 WAY CONTROL UNIT**

NOTE THE CABLING CROSSOVER BETWEEN RX AND TX AUDIO CONNECTIONS.

**6 PAIR CW1308 CABLE (MAXIMUM 100 METRES)**

WHITE/BLUE — BLUE/WHITE — WHITE/ORANGE — ORANGE/WHITE — WHITE/GREEN — GREEN/WHITE — WHITE/BROWN — BROWN/WHITE — RED — BLACK

2 CORE 0.5mm FLEX (FOR LOCK)

MOV MUST BE FITTED AT LOCK

FIRE — EXIT — LOCK — DOOR CONTACT (NOTE1)

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| UN REG | 0V | CAN H | CAN L | TX+ | TX- | RX+ | RX- | +12V LOCK | 0V PWR | | |
| | | | NC CONT FIRE | | NC CONT PTE | | +12V LOCK | 0V | NC CONT DOOR | TOKEN SW- | |

**GDX5 COMPACT DOOR CONTROL CARD PRINTED CIRCUIT BOARD (9905/003)**
**DOOR 0 CHANNEL 1 ENTRANCE PANEL**

DOOR NUMBER AND AUDIO CHANNEL SETTINGS FACTORY PROGRAMMED INTO THE DOOR ARE DISPLAYED ON THE DOOR LCD AT POWER UP.

LITE PANELS REQUIRE ONLY AN AUDIO CHANNEL TO BE SET ON THEM. ALL LITE PANELS ARE FACTORY SET AS DEFAULT TO AUDIO CHANNEL 1. A SECOND PANEL ADDED TO A SYSTEM MUST BE RE-ADDRESSED AS AUDIO CHANNEL 2.

TWO CAN HEADER TERMINATION LINKS MUST BE FITTED ON A SYSTEM TO BALANCE THE COMMUNICATIONS DATA BUS.. THESE ARE NORMALLY FITTED ON THE CONTROL UNIT CARD AND THE FIRST DOOR. REMOVE THIS LINK IF FITTED ON THE SECOND DOOR.

REAL TIME CLOCK IC
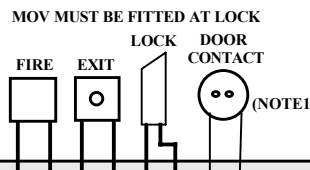
AS THE LOCK RELEASE, PUSH TO EXIT AND FIREMAN'S SWITCH ALL CARRY THE LOCK CURRENT THEY SHOULD BE RATED ACCORDINGLY ie. 0.5mm 2 CORE FLEX OR SUITABLE TO EACH ONE. (DOES NOT APPLY TO DOOR CONTACT)

**NOTE 1 :**

DO NOT USE THE CONTACTS WITHIN MAGNETIC LOCKS FOR THE DOOR CONTACT. USE SECURITY CONTACTS INSTEAD FOR DOOR OPEN INDICATION IF REQUIRED.

**POWER REQUIREMENTS**

THE CONTROL UNIT REQUIRES A MAINS INPUT OF 220VAC / 240VAC 50/60 Hz AND A SUITABLE EARTH CONNECTION INTO THE SWITCHED FUSED SPUR. THIS EARTH CONNECTION PROVIDES THE SAFETY EARTH FOR THE CONTROL UNIT ENCLOSURE AND BACKPLATE.

The following table gives the location, type and rating of each fuse utilised -

| Ref | Name / Location | Type | Rating |
|---|---|---|---|
| FM | Mains Fuse Within Spur | 240VAC HBC Quick Acting | 3A |
| FS1 | Board Fuse On Linecard * | 20mm Glass Quick Blow | 3A / 6A ** |
| FS2 - FS5 | Door Fuses On Linecard * | 20mm Glass Quick Blow | 1.6A |

\* Fuses Located In Vertical Fuse Holders On Card
\*\* Select Depending On Power Requirements Of Door Locks Used

IF SYSTEM IS A 2 DOOR SYSTEM THEN THE 2ND DOOR OR STAND ALONE TOKEN ACCESS READER IS CONNECTED AS SHOWN FOR THE 1ST ONE EXCEPT USING THE DOOR 1 CHANNEL 2 CONNECTIONS. (A STAND ALONE TOKEN ACCESS READER WILL NOT REQUIRE THE AUDIO CHANNEL CONNECTIONS) THE READER MUST BE ADDRESSED AS THE NEXT AVAILABLE DOOR NUMBER ON THE SYSTEM AFTER THE DOORS HAVE BEEN NUMBERED.