

# Model 3000 / Access 4000

## READER EXPANSION BOARD

### for Intelligent 4 Door Access Module.

**P/N: 995013**

## INSTALLATION MANUAL

**Overview:** The Reader Expansion board plugs on to the Intelligent 4 Door Access Module to provide an additional four Reader interface ports and an additional four “Arm” button inputs.

### **Parts List**

- Reader Expansion PCB.
- Installation Kit containing:
  - 2 x 16mm Hex Brass PCB Standoffs.
  - 1 x 8 Way plug-on screw terminals.
  - 8 x 2 Way plug-on screw terminals.
  - 2 x 500mA Fuses. (Spare)
  - 5 x Jumper Links. (Spare)
- Installation Manual. (This document)

### **Specifications**

Power Supply Input: Derived from host Intelligent 4 Door Access Module.

Reader Head Supply O/P: 5V or 12V DC. 300mA maximum per Reader.

Current Consumption: 125mA  
(NOT including Reader current.)

NOTE: Allow 50 to 120mA for small Prox Reader (~10cm range)  
Allow 120 to 180mA for standard Prox Reader (~15cm range)  
These values are approximations only.  
*See information supplied with Reader for actual current consumption.*

Fuse Protection.

Reader Power: 0.5A. M205 (20mm)

Note: Total combined current required by all devices connected to the Intelligent 4 Door Access Module must not exceed 2.5 A.  
ALWAYS REPLACE FUSES WITH THE SAME FUSE VALUE!

Operating Environment: 0° to 50° Celsius and 15% to 80% Relative humidity (non-condensing)

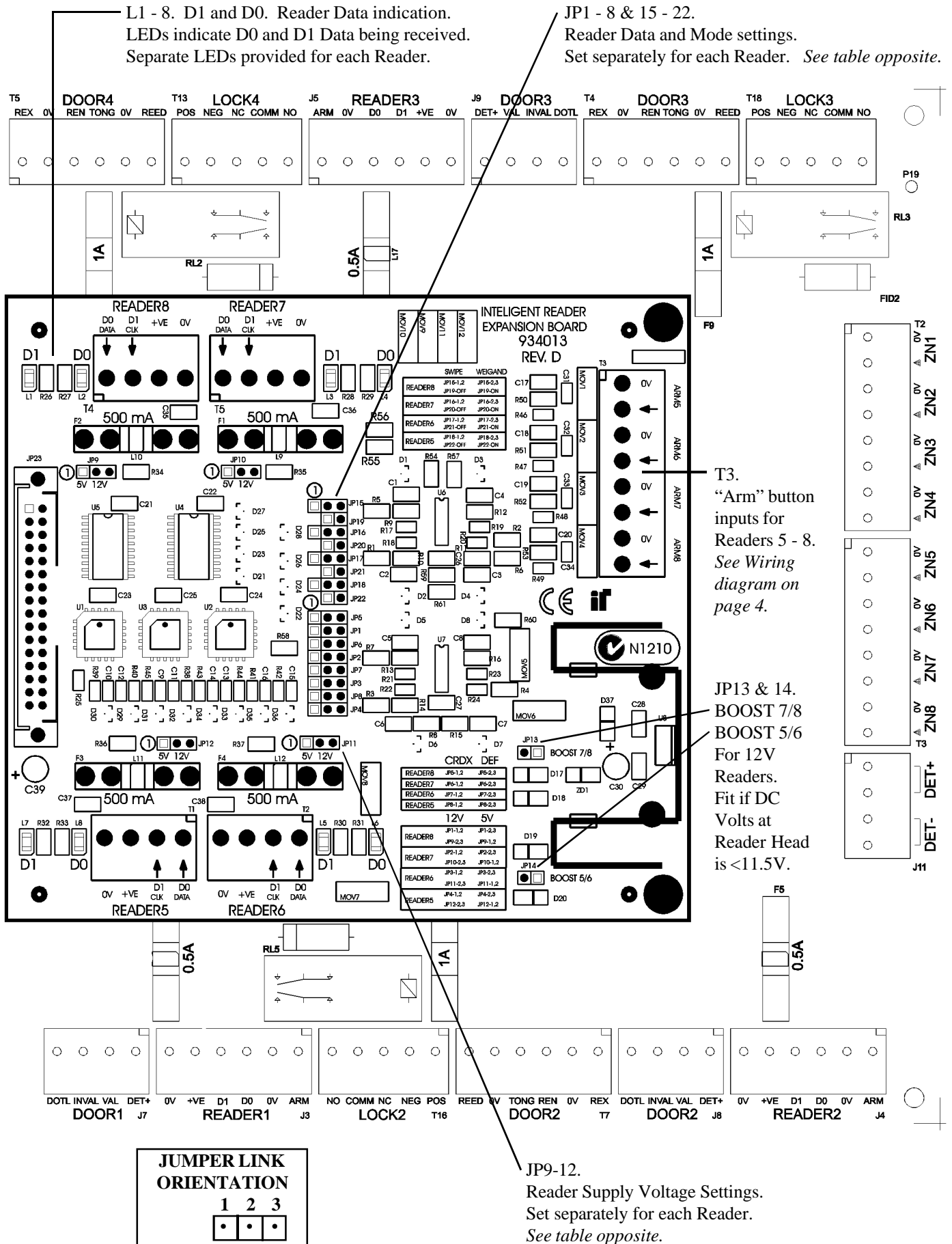
## **INSTALLING THE READER EXPANSION BOARD**

- 1) Disconnect the Power Supply Input and Battery from the Intelligent 4 Door Access Module.
- 2) Remove the two PCB mounting screws located in the area between the Door 2 and Door 3 connections. (One next to the Fuse F9, and the other between U20 and Fuse F5) DO NOT DISCARD.
- 3) Fit the two 16mm hex metal standoffs to the holes that the screws were removed from.  
NOTE: Both of the metal standoffs MUST BE FITTED to comply with regulations.
- 4) Fit the Expansion board by plugging **JP23** directly onto the Intelligent 4 Door Access Module expansion port marked **JP1**, and secure the board with the two screws into the new standoffs.
- 5) Set the Jumper link options to suit the Reader Data format, Supply voltage, Data voltage and Mode according to the table below.
- 6) Connect the additional Readers and Arming buttons as required. *See page 4 for details.*

### **READER OPTION LINK SETTINGS**

<b>READER</b>	<b>JP15 - 18</b> Format: 1-2 Swipe 2-3 Wieg.	<b>JP19 - 22</b> Format: OFF Swipe ON Wieg.	<b>JP9 - 12</b> Supply: 1-2 +5V 2-3 +12V	<b>JP1 - 4</b> Data 1-2 +12V 2-3 +5V	<b>JP5 - 8</b> Mode: Crdx 1-2 Default 2-3
<b>Omron Swipe</b>	1-2	OFF	1-2	2-3	2-3
<b>Cardlock Swipe</b>	1-2	OFF	1-2	2-3	2-3
<b>Hughes MiniProx / ThinLine</b>	2-3	ON	1-2	2-3	2-3
<b>Hughes ProxPro</b>	2-3	ON	2-3	1-2	2-3
<b>HID Sensorkey</b>	2-3	ON	1-2	2-3	2-3
<b>HID Swipe/Insertion/Turnstile Wiegand Card Readers</b>	2-3	ON	1-2	2-3	2-3
<b>Motorola Indala. SlimLine/ WallSwitch/PinProx/ValueProx/SecureProx/ MasterProx</b>	2-3	ON	1-2	2-3	2-3
<b>Motorola Indala. Standard/ Medium Range/MasterProx (for 30cm read range)</b>	2-3	ON	2-3	1-2	2-3

## THE READER EXPANSION BOARD



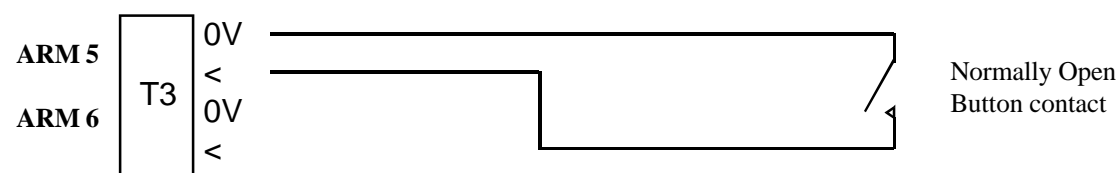
**Wiring Instructions.**

**READER WIRING**

READER	0V	+VE	D1 CLK	D0 DATA
Omron Swipe	green	yellow	red	brown
HID Proximity / Motorola Indala Proximity HID Sensorkey	black/shield	red	white	green
HID Classic Swipe/Insertion/ Epic Wiegand Card Reader (Units may have flying leads OR screw terminals)	black/shield GND	red +VE	white Data 1	green Data 0

**ARM BUTTON INPUT WIRING.**

The *Normally Open* Arm Button contacts are wired as shown below. (End-of-line resistors are not used)



**Disclaimer:**

1. The manufacturer &/or it's agents take no responsibility for any damage, financial loss or injury caused to any equipment, property or persons resulting from the correct or incorrect use of the Model 3000/4000 system or it's peripherals. The purchaser assumes all responsibility in the use of the Model 3000/4000 system and it's peripherals.
  2. While every effort has been made to ensure the accuracy of this manual, the manufacturer and/or its agents assume no responsibility or liability for any errors or omissions.
- Due to ongoing development, this manual is subject to change without notice.