

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)

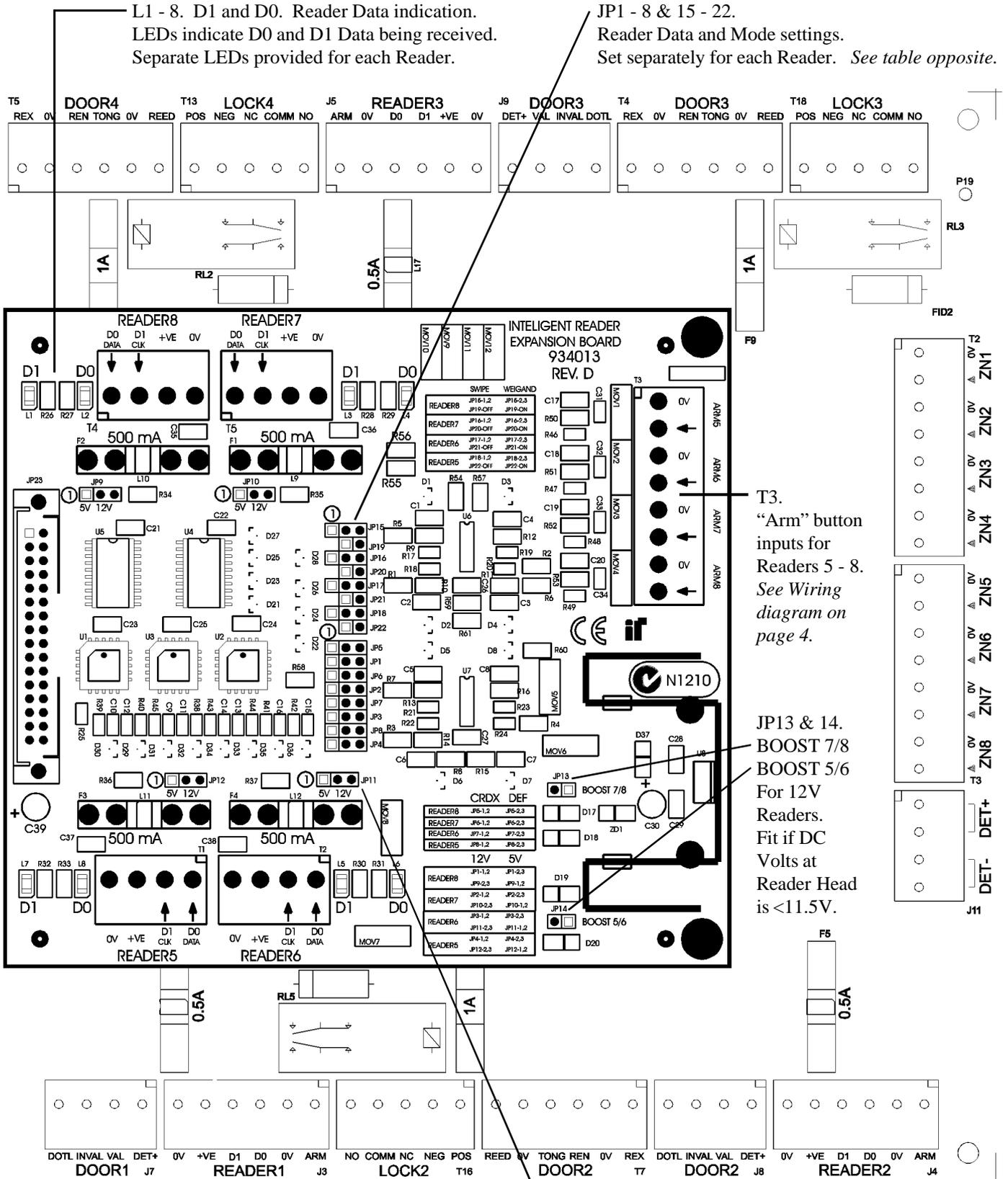
INSTALLING THE READER EXPANSION BOARD

- 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

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

THE READER EXPANSION BOARD



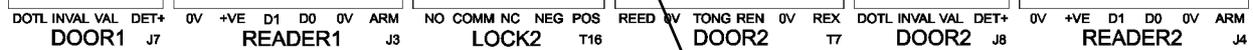
L1 - 8. D1 and D0. Reader Data indication.
 LEDs indicate D0 and D1 Data being received.
 Separate LEDs provided for each Reader.

JP1 - 8 & 15 - 22.
 Reader Data and Mode settings.
 Set separately for each Reader. *See table opposite.*

T3.
 "Arm" button inputs for Readers 5 - 8.
See Wiring diagram on page 4.

JP13 & 14.
 BOOST 7/8
 BOOST 5/6
 For 12V Readers.
 Fit if DC Volts at Reader Head is <11.5V.

JP9-12.
 Reader Supply Voltage Settings.
 Set separately for each Reader.
See table opposite.

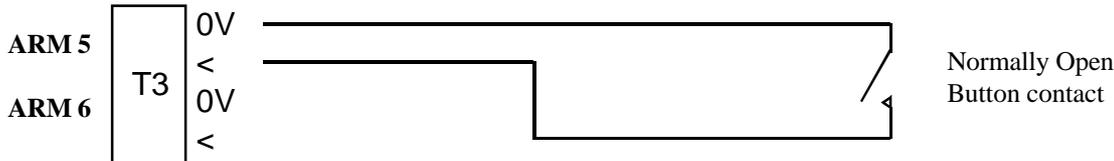


Wiring Instructions.**READER WIRING**

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.