

Electrical Specifications

Power Supply Input:	11V to 14V DC
Current Consumption:	15mA standby. 25mA max. with lock relay active. (NOT including Reader current or Auxiliary OUT 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 general approximations. <i>See information supplied with Reader for actual current consumption.</i>
Lock Relay Contacts:	
Voltage:	30VDC maximum.
Current:	750mA maximum.
Fuse Protection:	500mA Reader Power Fuse. Reader current must not exceed 400mA. ALWAYS REPLACE WITH SAME FUSE TYPE AND VALUE!

Single Door Access Module Fault LEDs

RX	TX	EXPLANATION/REMEDY
ON	ON	Module is un-addressed.
OFF	ON	Module type unknown. Firmware upgrade required to Control Module.
Flash	ON	Duplicate Module. This module number is already in use by a module of the same type.
Flash	Flash	Module number selected is too big for Control Module RAM size. Select a lower Module number.
ON	OFF	Too many modules on Network for Control Module RAM size.
Alternating Flash		EEPROM fault. Return for service.

Due to on-going product development this manual is subject to change without notice.

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Part No: 635011

Model 3000 / Access 4000

Single Door Access Module. P/N: 995011 & 995011ENH

INSTALLATION MANUAL

Overview

The Single Door Access Module is designed to provide an interface for a single Reader head along with the required inputs and outputs for the control and monitoring of a Single Door.

Magnetic Swipe or Wiegand Reader formats are supported and an on-board relay provides lock switching. An Auxiliary output is provided to control Reader LEDs and/or Buzzers and can be configured as a general purpose output, or to indicate "Door Open Too Long" (DOTL) OR "Valid", "Invalid" and "DOTL" (*V3 or later Control Module firmware required)

Programming options allow for Door Access to be integrated with Area On/Off Control where required. Access Control processing utilizes the Door Contacts and/or Tongue Sense inputs to provide "Door Forced" and "Door Open Too Long" alarms.

If Tongue sensing is not utilized a spare Zone Input is available for another detection device.

Versions: **995011.** Standard version supporting up to 31 Backup Cards.
995011ENH. Enhanced version supporting up to 127 Backup Cards.

Note: Control Module firmware must be V3.56 or later to support more than 15 Backup Cards.

IMPORTANT NOTES:

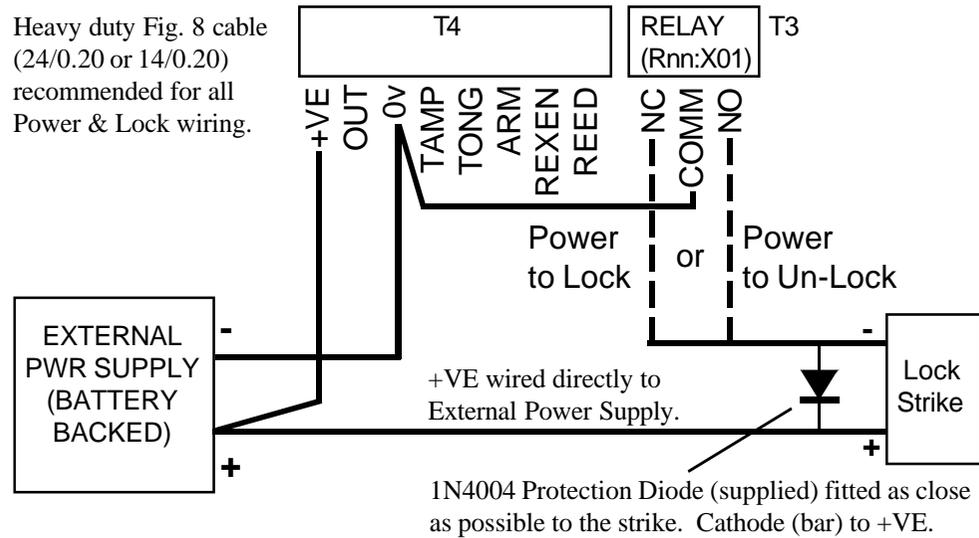
1) The Single Door Access Module is enrolled on the LAN and programmed as a Reader Module. (MENU, 7, 2, 4) When programming; options relating to "2nd Door / 2nd Lift", "2 Door Mode" and "Reader 2..." should not be programmed.

2) A single Input is provided for an Exit/Entry button. Regardless of whether this input is used for an Exit or Entry button, it must be programmed for Exit button operation. i.e. Select the "B"utton option in the "Exit Options" of the Access Group assigned to the Door. Note that Review will therefore always record the direction for the button operation as "Exit".

3) Zones Rnn:Z03 to Z05 and Z07 and Auxiliaries Rnn:X03 to X08 do not exist on the Single Door Access Module and therefore must not be programmed.

Lock Wiring

Heavy duty Fig. 8 cable (24/0.20 or 14/0.20) recommended for all Power & Lock wiring.



Reader Wiring

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

NOTE: An LED and/or beeper control wire provided on Proximity and Wiegand readers can be wired directly to the T4 "OUT" terminal on the Module. (No dropping resistor required) See information supplied with Reader for LED control details.

Module Numbering

The Single Door Access Module is enrolled on the LAN as a Reader Module (R).

The Module number is set using DIPswitches 1 to 7.

The Module number equals $n + 1$, where n is the binary number set on DIPswitches 1 to 7.

Module No:	DIPswitch:	1	2	3	4	5	6	7
	Binary value:	1	2	4	8	16	32	64
1		off						
2		ON	off	off	off	off	off	off
3		off	ON	off	off	off	off	off
4		ON	ON	off	off	off	off	off
5		off	off	ON	off	off	off	off
6		ON	off	ON	off	off	off	off
7		off	ON	ON	off	off	off	off
8		ON	ON	ON	off	off	off	off
9		off	off	off	ON	off	off	off
through to								
99		off	ON	off	off	off	ON	ON

Link Settings

READER	JP2 Supply
Omron Swipe	5V
Hughes MiniProx / ThinLine	5V
Hughes ProxPro	12V
HID Sensorkey	5V
HID Swipe/Insertion/Turnstile Wiegand Card Readers	5V
Motorola Indala. SlimLine/ WallSwitch/PinProx/ValueProx-/SecureProx/MasterProx	5V
Motorola Indala. Standard/ Medium Range/MasterProx (for 30cm read range)	12V

NOTE: It is recommended that Readers with wide supply voltage ranges (e.g. 4V to 14V, 5V to 16V, etc.) are powered using the 5V option.

THE SINGLE DOOR ACCESS MODULE PCB

F1. 500mA FUSE M205.

MUST BE 500mA.

Do not substitute higher values.

T3. Reader connections.

D0(Data) Reader Data input.
 D1(CLK) Reader Data or Clock input.
 +VE Reader Power.
 GND Reader Ground.

NOTE: Use shielded Data cable.

Tycab DMC6702, Garland MC7-6S, etc.

DO NOT use twisted pairs!

See connection details on page 6.

T4. Input & Auxiliary Output connections.

+VE Ext. Pwr supply +ve Input and/or
 +12V for Detector or Auxiliary power.
 OUT Warn DOTL / Valid / Invalid LED output. *3 & 4.
 OR Auxiliary 2 Output. (Rnn:X02)
 0V 0V return for I/P & O/P connections.
 and/or Ext. Pwr supply -ve Input.
 TAMPER Tamper Switch input.
 TONGUE Tongue Sense. (Zone 6). *1 & 6.
 ARM Optional button I/P for Area ON control. *2 & 5.
 OR Zone 8 I/P *2.
 REXEN Exit/Entry Button Input. (Zone 2). *2.
 REED Door Reed Switch Input. (Zone 1). *1.

*NOTES:

1. End-of-line (EOL) Resistors required.
2. EOL's NOT required. See Note 2 on page 1.
3. Warn DOTL requires V3 Control Module firmware or later.
4. Connect 1.2kOhm dropping resistor between +VE & LED Anode if not already supplied in Reader.
5. Area ON control selected in Reader Module options. EOL resistors NOT required.
6. "Tongue Sense" selected in Reader Module options.

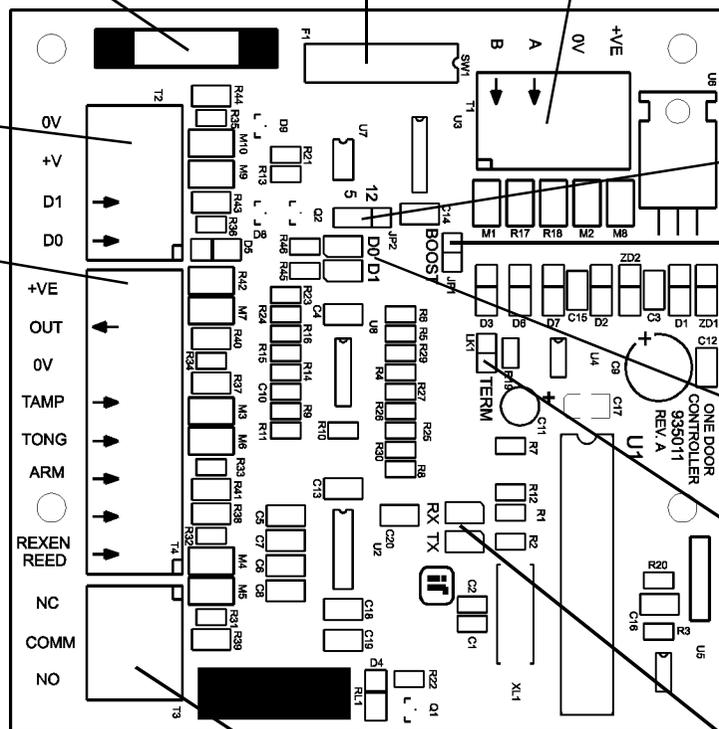
SW1. DIPswitches:

Switch 1-7. Module number
 (See table on page 3)

T1. LAN Connections.

LAN +VE Connect LAN +ve IF Module powered from the LAN.*
 LAN 0V Connect LAN Ground (-VE)
 LAN A LAN Data A connection.
 LAN B LAN Data B connection.

*NOTE: +VE connections from two different power supply sources must never be connected together.
 See "LAN & Power Supply Wiring" on page 7.



JP2. RDR SUPPLY. Reader Pwr Supply voltage.
 5V / 12V. See table on page 3 for common settings.

JP1. BOOST. For 12V Readers.
 Fit if DC Volts at Reader head is <11.5V

D0. Data 0's from Reader.
D1. Data 1's from Reader.

LK1. LAN Termination.
Off: unterminated.
On: Terminated. Only fitted if unit is one of the two furthest modules from the Control Module.

T5. Lock Relay Connections.
 (Rnn:X01)
 See "Lock Wiring" on page 6.

RX. LAN Data Receive & FAULT DIAGNOSIS
TX. LAN Data Transmit & FAULT DIAGNOSIS
 (See table on page 8)