

Electrical Specifications

Power Supply Input: 11V to 14V DC

Current Consumption: 70mA standby.
210mA max. with lock relays & LED outputs all active.
(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 general approximations.
See information supplied with Reader for actual current consumption.

Fuse Protection: 500mA (LAN +VE, T5 +VE and T3 +VE)
Total combined current required by devices connected to these
three +VE terminals must not exceed 400mA.
ALWAYS REPLACE WITH SAME FUSE VALUE!

Reader 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.

Model 3000/4000

Single Door/2 Door Reader Module. P/N: 993012

INSTALLATION MANUAL

Overview

The Reader Module is designed to provide Interfacing for two Reader heads along with all input and output requirements for the control and monitoring of:

- A Single Door using Entry and/or Exit Readers with Entry/Exit button options, OR
- Two separate Doors each using one Reader only, with Exit button options.

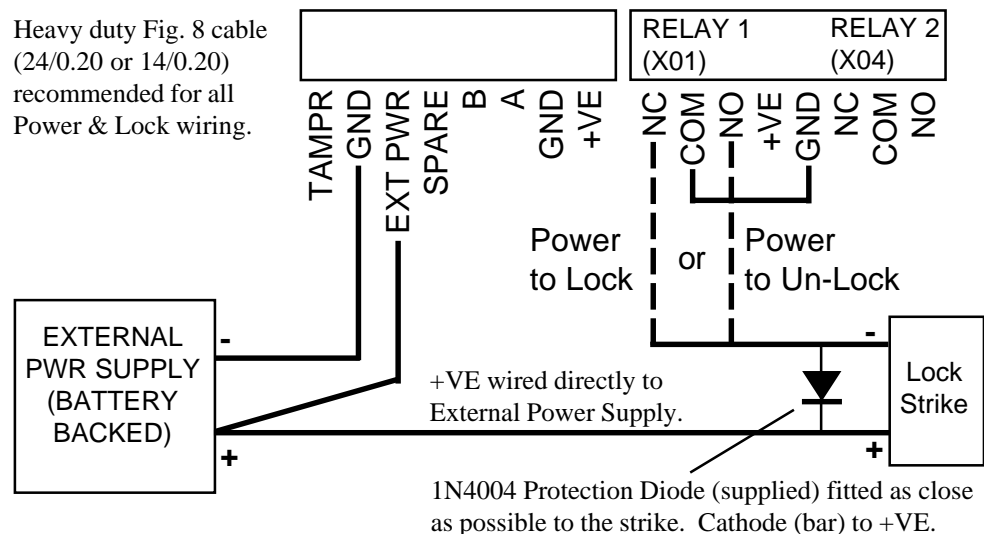
Single Door or 2 Door Mode is selectable in the Reader Module programming options.

The versatile hardware and software design allows for each Reader to be configured independently, even allowing for mixed reader technologies to be used on the same module. Heavy duty relays are provided on-board for lock switching, along with Auxiliary outputs for "Valid", "Invalid" and/or "Door Open Too Long Warning*" to control Reader LEDs and/or Buzzers. (*V13 or later Reader firmware and V3 or later Control Module firmware required)

Simple Programming options allow for Door Access Control 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 and spare Zone inputs are available for PIRs, PE beams, and other detection devices.

Lock Wiring

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



Reader Wiring

READER	D0R#	D1R#	+VE	GND
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: The LED control wires provided on Proximity and Wiegand readers can be wired directly to the VALID / INVALID outputs on the Reader Module. (No dropping resistor required) See information supplied with Reader for LED control details.

Module Numbering

The Reader 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	off	off	off	off	off	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	LK1/LK7 Data O/P	LK2/LK8 Mode	LK3/LK9 Format	LK4/LK10 Supply
Omron Swipe	5V	DFLT	SWIPE	5V
Hughes MiniProx / ThinLine	5V	DFLT	WIEG	5V
Hughes ProxPro	12V	DFLT	WIEG	12V
HID Sensorkey	5V	DFLT	WIEG	5V
HID Swipe/Insertion/Turnstile Wiegand Card Readers	5V	DFLT	WIEG	5V
Motorola Indala. SlimLine/ WallSwitch/PinProx/ValueProx/SecureProx/MasterProx	5V	DFLT	WIEG	5V
Motorola Indala. Standard/ Medium Range/MasterProx (for 30cm read range)	12V	DFLT	WIEG	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 READER PCB

