



Stand-Alone Keypad

In or Out... we make it Easy!

Instructions

Features:

- 4 Independent Outputs
- 4 Independent Timers
- All Outputs Assignable by Code
- On board 5 Amp Form C Relay
- 120 Users
- Remote Triggering Input
- Keypad Programmable

Memory

Non-volatile EEPROM memory means your codes and programming will be there whether you remove power for 5 minutes or 5 years.

Programming

All programming is accomplished entirely from the front of the keypad. LED or Sounder guidance makes programming easy, and changing codes a matter of seconds for an authorized user.

Codes

The RCI keypads allow up to 120 individual user codes to be valid. Codes may be from 1-6 digits in length and digits may be repeated. The Master Code is always assigned to user location one (1).

Main Relay

This is a 5 Amp (10 Amp surge) Form-C relay which can be toggled or timed from 1 to 90 seconds-by code.

Auxiliary Outputs

Auxiliary outputs can be individually timed from 1 to 90 seconds or act as a toggle switch, and may be triggered individually or in combination-by code. The three auxiliary outputs provide a 50mA sink to ground when activated.

Remote Triggering Input

This normally open loop that by default operates the Main Relay upon activation and can be programmed to trigger any combination of outputs. Upon a momentary closure,

the selected outputs will energize for their programmed time. The main relay (if selected) will energize for the same time period as the Master Code. This feature is especially useful when controlling an electric locking device.

Keypress Feedback / Audible Keypress

The RCI keypads will acknowledge a keypress by momentarily illuminating the yellow LED. This can be turned off through programming.

Keypad Active Output

The RCI keypads can be programmed to energize a voltage output whenever a key is touched. This can be used to turn on accessories such as lights, CCTV camera, or notify a guard.

Auto-Entry

This feature is used when the need for the code not to be followed by the * key is desired. The user only needs to enter their code number and the relay will activate for the programmed relay time. To use this feature, the user codes must be the same length as the master code.

Technical Notes:

To avoid ESD (Electro-Static Discharge) from interfering with the operation of the RCI keypad, ground the negative terminal of the keypad to earth ground. If the power supply can not be grounded, then the case should be grounded. For 24VDC operation, remove jumper J2 (see Fig. 5).

Packing Checklist:

- 9212i Keypad
- Ten (10) Conductor Wiring Harness (1)
- Slotted Screws (2)
- Security Screws (2)
- Installation
- Diode (1)

Voltage	Current Rating	Temperature	Output
12-24 VAC/VDC	@ 12VDC 8mA typ – 35mA w/ relay energized @ 24VDC 16mA typ – 45mA w/ relay energized	-20°F to 130°F (-28°C to 54°C)	Main relay: 5A; form-C @24VDC; 10A surge Outputs 2-4 are 50mA neg voltage outputs

NOTE: As with any electronic product, the 9212i may be subject to irregularities in the AC power line. This can cause malfunction or unstable operation. Connecting the 9212i to a suitable DC power supply will limit the effects of AC fluctuation on the keypad.

9212i Keypad Installation Instructions (Continued)

Programming Options Chart

If the pre-programmed default values must be changed or additional functions are desired, the following options may be programmed.

ENTER PROGRAMMING MODE¹	PRESS	99 # (MASTER CODE) *
Each of the following options can only be changed after the keypad has been put into programming mode (above).		
1. Change master code/set main relay time ² e.g. Master code of 4321/relay time of 10 sec	Press	(Relay Time) # 1 # (new code) * (repeat code) *
	Press	10 # 1 # 4321 * 4321 *
2. Add/change user code	Press	(user location) # (new code) * (repeat code) *
3. Add/change user code with a different output time on main relay ²	Press	(Relay Time) # (user location) # (new code) * (repeat code) *
4. Delete user codes	Press	(user location) # * *
5. Set output 2 time ²	Press	12 # (Relay Time) # 0 # * *
6. Set output 3 time ²	Press	13 # (Relay Time) # 0 # * *
7. Set output 4 time ²	Press	14 # (Relay Time) # 0 # * *
8. Set outputs for Remote Triggering Input	Press	17 # (outputs: .ie. 1, 2 or 2, 3 etc.) # 0 # * *
		Note: 0 = no outputs
9. Set outputs for Panic ³	Press	18 # (outputs: i.e. 1, 2 or 2, 3 etc.) # 0 # * *
		Note 0 = no outputs
10. Turn keypress feedback/on	Press	30 # 0 # 1 # * *
11. Turn keypress feedback/off	Press	30 # 0 # 0 # * *
12. Turn yellow LED/sounder On with relay	Press	30 # 1 # 1 # * *
13. Turn yellow LED/sounder Off with relay.	Press	30 # 1 # 0 # * *
14. Turn auto entry on	Press	30 # 2 # 1 # * *
15. Turn auto entry off	Press	30 # 2 # 0 # * *
16. Turn keypad active output on ⁴	Press	43 # 0 # 99 # * *
17. Turn keypad active off	Press	43 # 0 # 00 # * *
18. Erase keypad memory/reset defaults	Press	46 # 00000 # 00000 # * *
19 . Energize selected output(s) with a user code ⁵	Press	59 # (outputs: i.e. 1, 2 or 2, 3 etc.) # (user location) # (new code) * (repeat code) *
e.g. User 2; code of 4321 *; energize outputs 2 & 3	Press	59 # 23 # 02# 4321 * 4321 *

Notes:

- ¹ If the master code is forgotten or does not seem to be working, momentarily push SW1 on the circuit board, (see Fig. 5 for location) to enter programming mode and follow step two from above to program a new master code.
- ² Relay time must always be represented by 2 digits. Example: 5 seconds = 05. Latching /toggle is accomplished by entering a time of 00.
- ³ If selected, panic will operate by pressing the * and # simultaneously. Panic operates for 1 second and is defaulted to output 4.
- ⁴ Keypad active is a negative voltage output (sink) available on terminal (or wire) marked WB (see wiring diagrams for location).
- ⁵ This feature is not available with the master code.

9212i Keypad Installation Instructions (Continued)

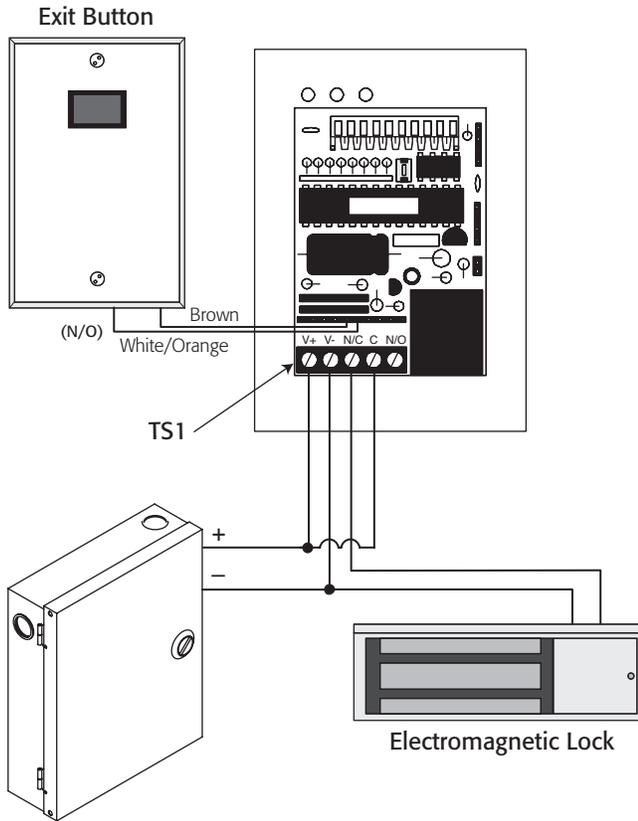


Fig. 1 Basic access control w/ an electromagnetic lock

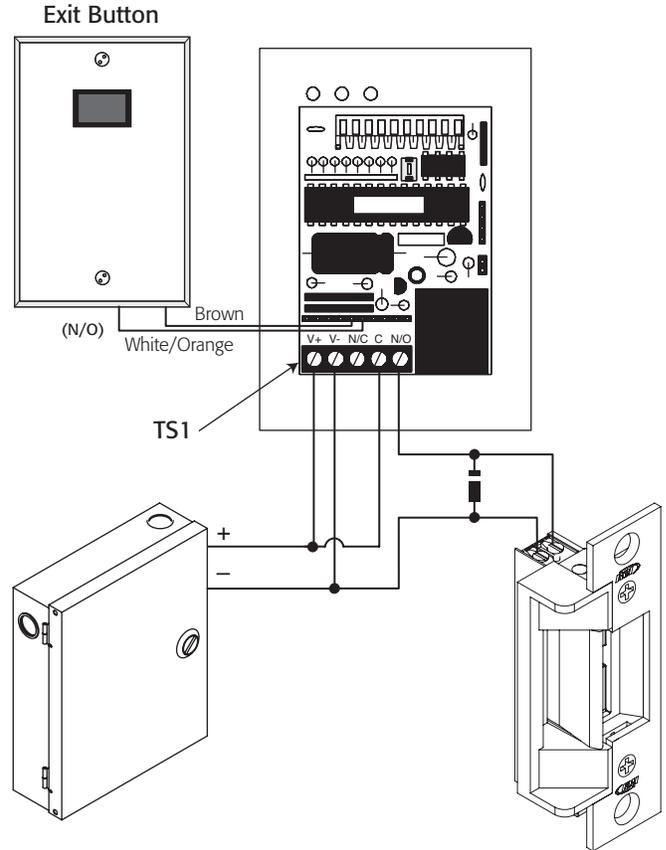


Fig. 2 Basic access control with an electric strike

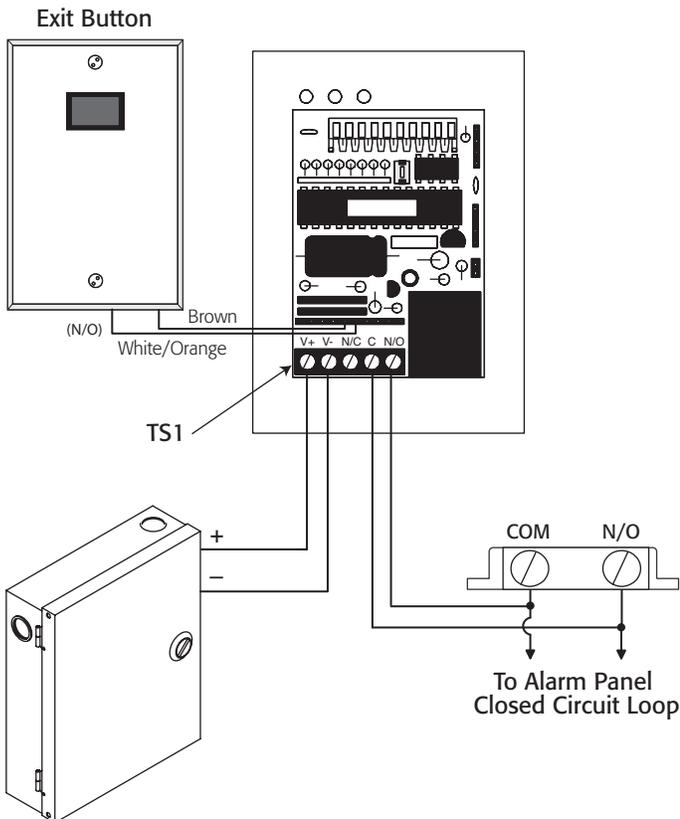


Fig. 3 Shunting a Normally Closed (N/C) Zone

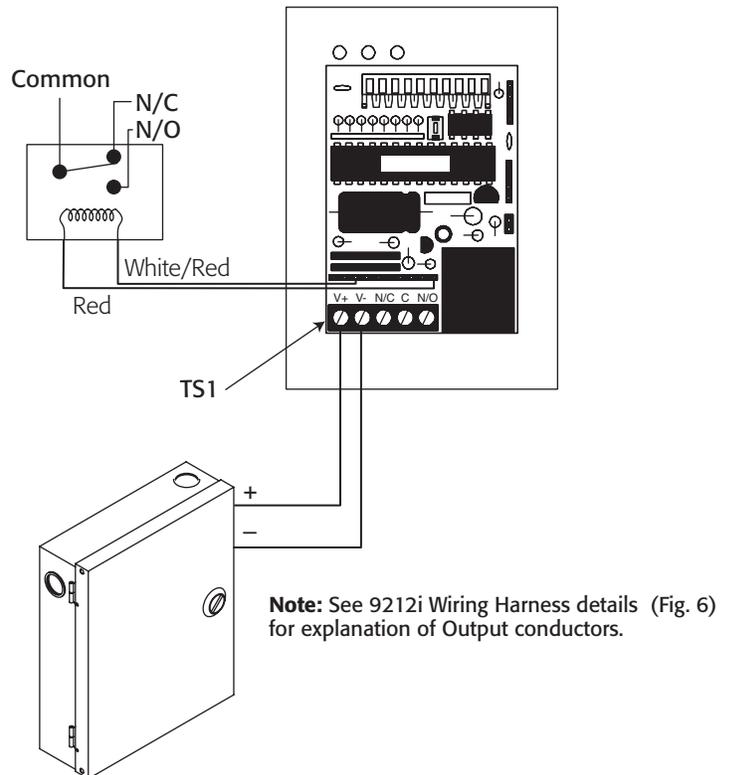


Fig. 4 Wiring an Accessory Relay

9212i Keypad Installation Instructions (Continued)

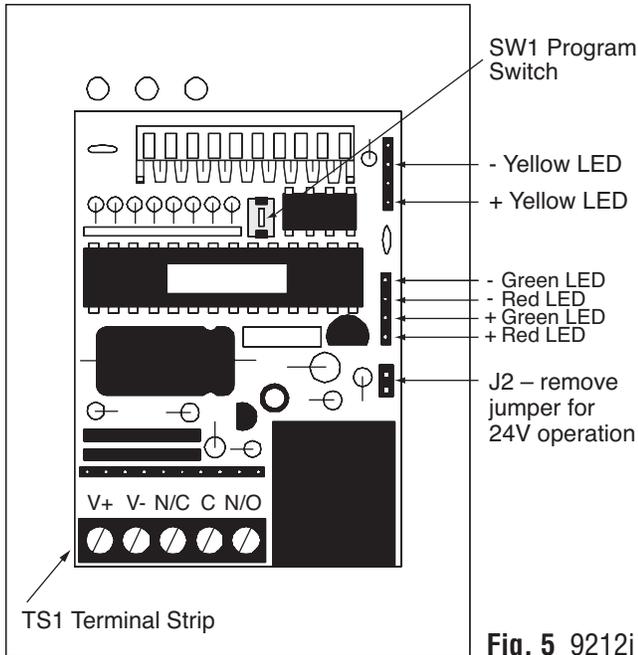
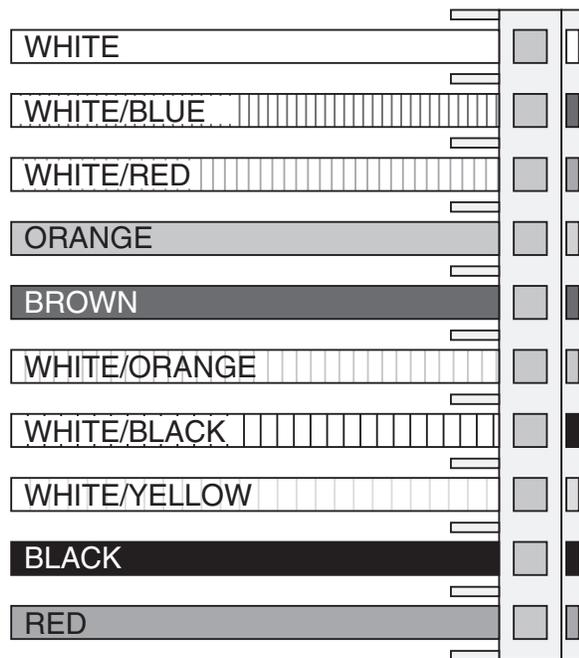


Fig. 5 9212i Circuit Board



Wire Color	Wire Function
White	Not Used
White/Blue	Output 3 (50mA sink to ground)
White/Red	Output 2 (50mA sink to ground)
Orange	Output 4/panic (50mA sink to ground)
Brown	Remote Triggering Input (REX)
White/Orange	Remote Triggering Input (REX)
White/Black	K (in) Keypad Active
White/Yellow	K (out)
Black	Ground (outputs only)
Red	V+ Filtered (outputs only)

Fig. 6 9212i Wiring Harness.

WARNING: Plug this harness in with the leads facing down! Permanent damage may result if incorrectly inserted.