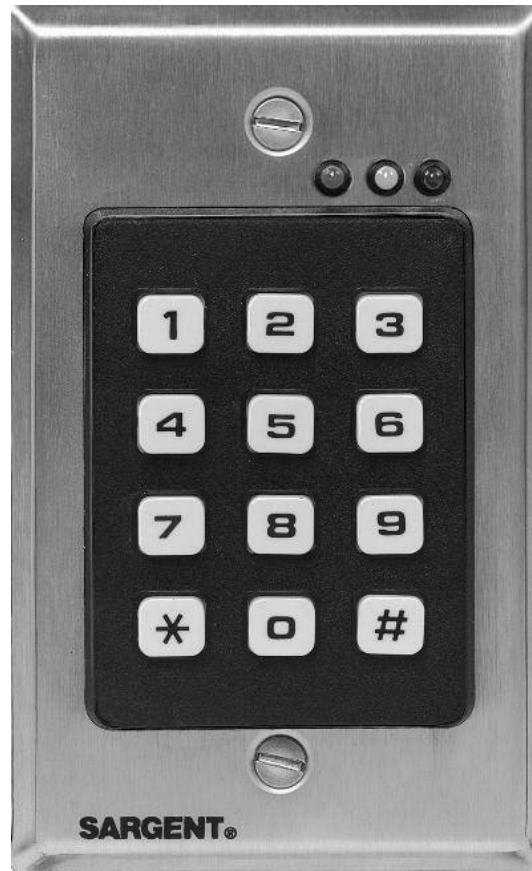


Installation Instructions

4291 and 4292 Keypads

SARGENT®

ASSA ABLOY®



A6851J

02/11

1 General Description

The 4290 Series Microprocessor Controlled Keypads provide keyless access primarily for electric locking devices requiring dry contact switching. User codes are programmed from the keypad to perform various functions.

A yellow LED indicates keypad status and red and green user LEDs can be wired to display latchbolt and/or door status. The 4291 Keypad is designed for indoor use in a protective environment. The 4292 Keypad is weather resistant and can be used for outdoor use.

2 Specifications

Wallplate Finish	Stainless Steel (US32D)
Wall Plate Dimensions	4.50" x 2.75" x 1.53"
Mounting Screws	(2) 6-32 Tamper Resistant (2) 6-32 Slotted Oval
Master Codes	1 (1 to 6 digits)
User Codes	15 (1 to 6 digits)
Memory Backup	Non Volatile
Voltage Input	24VDC
Current Draw 45mA	45mA
Green User LED	24VDC, 15mA
Red User LED	24VDC, 15mA
Yellow User LED	Keypad Status
Control Output	SPDT Dry, 8A, @ 24VDC Res.
Momentary Control	0 - 90 Seconds
Maintained Control	Infinite
Temperature Range	-20° - 130°F
Tamper Feature	3 Incorrect Entries/ 15 Second Lockout

Special Features (Connector Output)

Auxiliary Output (2)	24VDC, 50mA (SINK)
Keypad Active	24VDC, 50mA (SINK)
Panic Output	24VDC, 50mA (SINK)
Request to Exit	Dry Contact Activated

3 Functions

1. Control Output (Terminal Strip TS-1)

Enter programmed user code to activate this output for 0-90 seconds or maintained. This is a Form "C" dry contact output and should not exceed 8 AMP (24VAC RES) load. It is used to control an electric locking device.

2. Auxiliary 1 Output (Wht/Red)

Enter programmed user code to activate this output for 0-90 seconds. This output should not exceed a 50mA (24VDC) load. It is used to control a relay, horn, LED etc.

3. Auxiliary 2 Output (Wht/Blu)

Enter programmed user code to activate this output for 0-90 seconds or maintained. This output should not exceed a 50mA (24VDC) load. It is used to control a relay, horn, LED, etc.

4. Keypad Active (Wht/Blk)

Enter any key and this output will activate for 10 seconds (from last keypress). This output should not exceed a 50mA (24VDC) load. When used in conjunction with an auxiliary relay, it can control LEDs or a CCTV camera.

5. Panic Output (Org)

Enter * and # keys simultaneously to activate this output for 1 second duration. The orange wire output should not exceed a 50mA (24VDC) load. It is used to control a relay, horn, LED, etc.

6. Request to Exit (Wht/Org, Brn)

A momentary closure (N. O. dry contact) will activate the Control Relay for the same time period as programmed for the Master Code. It is used in conjunction with a Motion Detector for exiting. Refer to Fig. A, following page.

7. Tamper Feature

A 15 second keypad lockout will occur if (3) improper codes are entered.

8. Passage Mode

Programming this feature changes the state of the keypad relay contacts. Its intended use is to maintain the door in the unlocked mode. Master code and user codes cannot be used in this mode.

4 Mounting Instructions

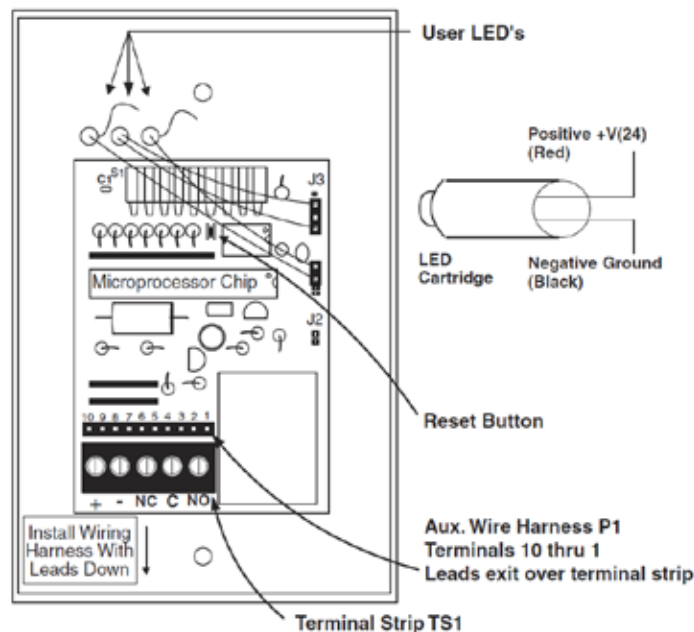
A. Important

CAUTION: Disconnect all power before beginning installation to prevent electrical shock and equipment damage.

1. Installer must be a trained, experienced service person.
2. All wiring must comply with applicable local electrical codes, ordinances and regulations.

B. Installation

1. Mount outlet box to stud or other rigid structure. Use Outlet Box Slater S1-18W for indoor applications and Waxman 35-276 for outdoor applications (not furnished).
2. Install and wire electric locking devices, monitoring components and power sources to appropriate keypad connections.
3. Figure A shows color code wiring connections on keypad.
4. Figure B (pg.3) shows typical wiring when using SARGENT's electrical locking devices with accessories.
5. Fasten wallplate with keypad to outlet box using machine screw furnished. See Figure C for 4292 keypad outdoor installations.
6. Energize power supply and refer to Programming Procedures (pg. 5)



Wiring Harness

Warning: Plug this harness in on the proper pins. Permanent damage will result if incorrectly inserted.

10	White
9	Wht/blue
8	Wht/red
7	Orange
6	Brown
5	Wht/orange
4	Wht/black
3	Wht/yellow
2	Black
1	Red

Note:

LED's shown are for the 4291 keypad.

LED's for 4292 are located on the front right side.

Not used

Aux 2 Output (SINK 50mA)

Aux 1 Output (SINK 50mA)

Panic Output (SINK 50mA)

Request to Exit Input

Request Input Common

Keypad Active (SINK 50mA)

N/A

Output Ground (Only)

24 +

Fig. A

Typical Wiring with SARGENT Electric Locking Devices, 3510 Power Supply and Door Status Switch

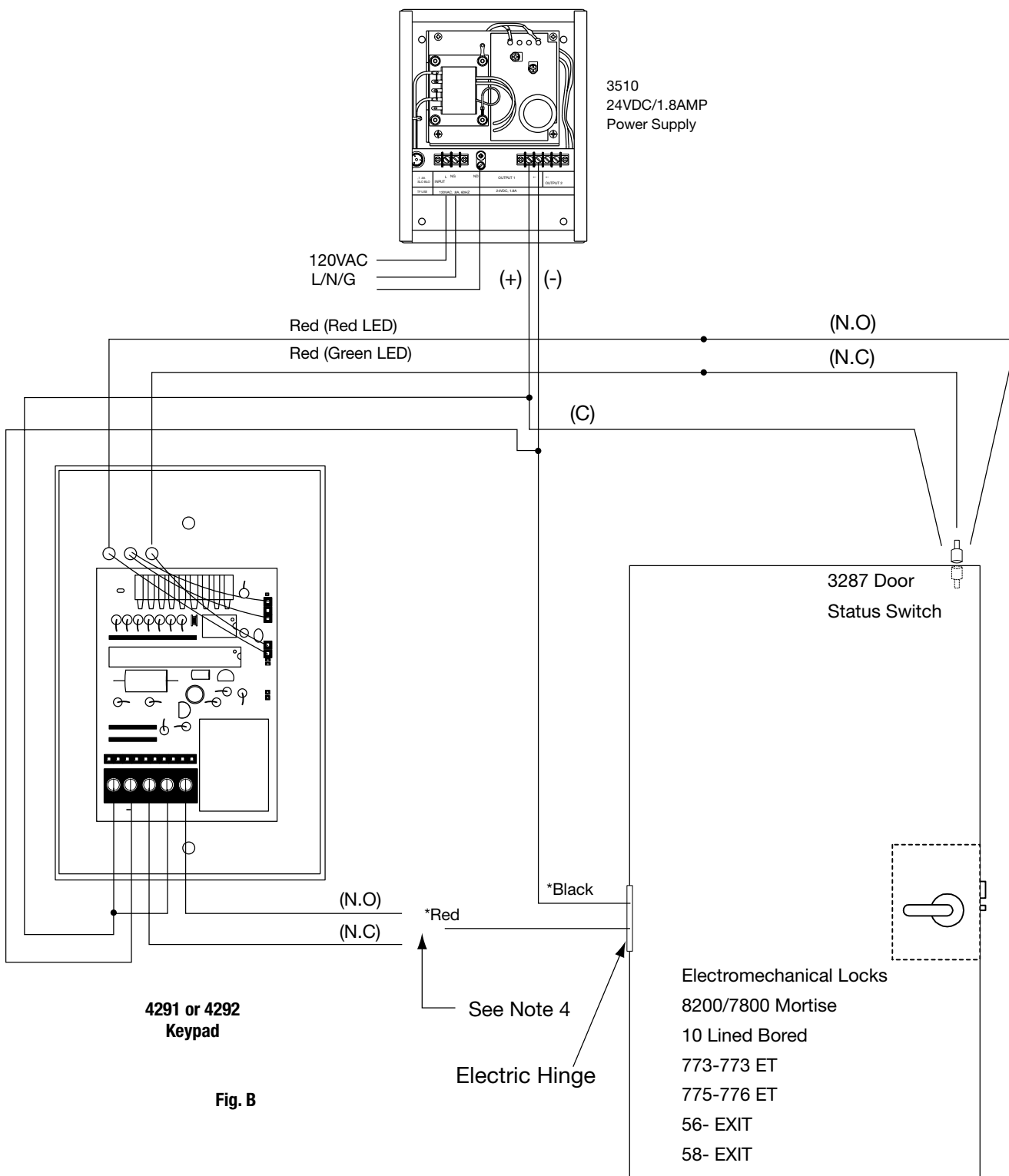


Fig. B

* Colors of wires shown are leads from the Electric Locking Device only, not Electric Hinge.

Note: Consult 3287 instruction sheet for proper wire colors

4292 Weather Resistant Mounting Diagram

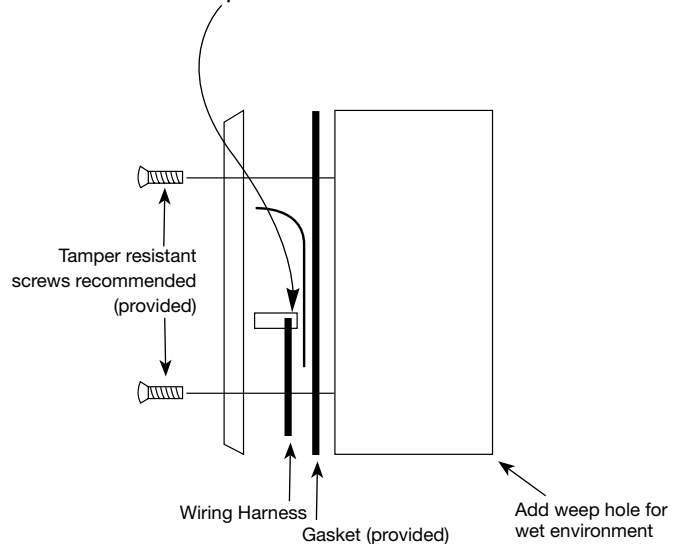
CAUTION:

The 4292 is not weatherproof, it is only weather resistant. It may be installed outside, but the following precautions must be followed.

1. Do not install in any area where direct rain will strike the keypad or where water will run down the wall and seep into the keypad.
2. When mounting the 4292 outside, apply silicone to the area where wires enter the case, and install a weep hole at the bottom of the box. This will help prevent warm air from condensing on the circuit board.

Water shield: This shield should fold down from the top to allow moisture to run away from the board.

Wires should be run so that they do not interfere with the placement of the shield.



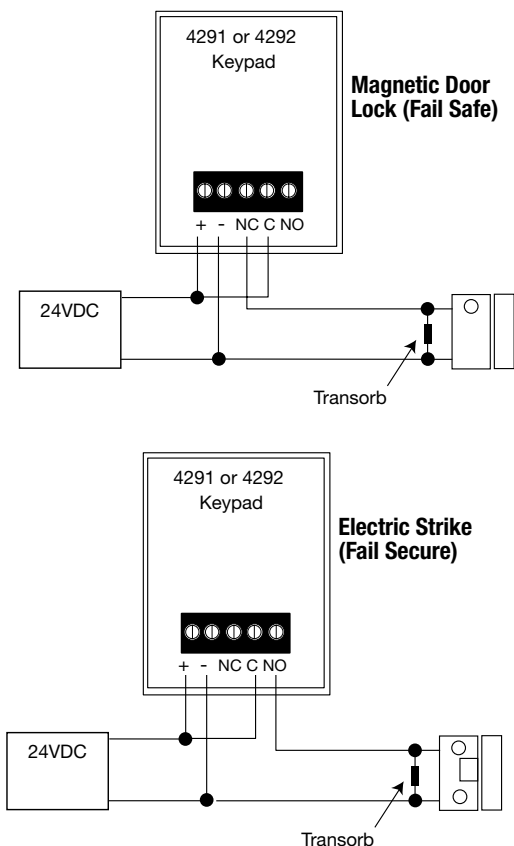
4292 Weather Resistant Wiring Diagram Notes

1. Wires must be protected from abrasion.
2. For use with Class II circuitry only.
NOTE: Dots (•) indicate wire connections.
3. Use N.C. Relay Contacts for Fail Safe Lock (normally energized). Use N.O. Relay Contacts for Fail Secure Lock (normally de-energized).
4. Insulate any loose wires from Outlet Box and each other.
5. When operating inductive loads such as electric strikes and solenoid operated locks (10G70-73, 8270-73 etc.) the supplied transorb must be installed.

For locking devices that have built in protection, the use of the transorb is not necessary. Refer to the literature furnished with the locking device for this information. SARGENT 56-, 57-, 58- and 59- devices do **NOT** require use of transorb.

IMPORTANT:

The transorb must be installed as close to the locking device as possible. This is to prevent the electrical (inductive) kickback voltage generated by the locking device from damaging the keypad.



5 Programming

The keypads come pre-programmed with the master code 1234*.

The master code is used to program your fifteen (02-16) user codes and functions.

If you are unsure of where you are in programming, press the * key several times until the yellow LED is off and start again at the beginning. Also, if no key is pressed for 30 seconds, the programming mode in process is automatically aborted.

A. Program Users Codes 2 Through 16

1. Enter 99# to initiate programming sequence.
2. Enter Master Code*.
This code can be changed, refer to **C. Changing the Master Code**.
3. Enter two digit time duration desired.
Enter 01 to 90 seconds for Momentary Function. Enter 00 for Maintained Function.
4. Enter two digit user number.
Enter 02# to 16#.
5. Enter Selected User Code.
Use between a one and six digit number followed by a *.
6. Repeat step 5.

Sample Programming:

Step:	①	②	③	④	⑤	⑥
Enter:	99#	1234*	07	02#	7293*	7293*
Input:	Initiate Programming	Master Code	Time Duration	User Number	User Code	User Code
LED Status:	No Change	LED Flashes Slowly	No Change	No Change	LED Flashes Rapidly	LED Turns Off

B. Delete User Codes 2 through 6

1. Enter 99# to initiate deleting sequence.
2. Enter Master Code*.
This code can be changed, refer to **C. Changing the Master Code**.
3. Enter two digit user number desired to be deleted.
Enter 02# to 16#.
4. Enter ** to complete deletion.

Step:	①	②	③	④
Enter:	99#	1234*	02#	**
Input:	Initiate Programming	Master Code	User Number	Delete Number
LED Status:	No Change	LED Flashes Slowly	No Change	LED Flashes Rapidly and Turns Off

C. Changing the Master Code

1. Enter 99# to initiate programming sequence.
2. Enter current Master Code*.
3. Enter time duration: 01-90 seconds.
4. Enter 01#.
5. Enter new desired Master Code.
6. Use between a one and six digit number, followed by a *.
7. Repeat step 5.

NOTES:

- If LED does not turn off, the code entered has not been verified.
Press * and repeat Steps 1-6.
- If the Master Code is unknown, Programming or Changing Mode can be entered by removing the keypad from the outlet box and momentarily pressing SW1 (reset button) on the circuit board.
For location, see Mounting Instructions, page 2.
- The yellow LED will flash slowly and programming should proceed from Step 3.

Sample Programming:

Step:	①	②	③	④	⑤	⑥
Enter:	99#	1234*	01-90 Sec	01#	4622*	4622*
Input:	Initiate Changing	Current Master Code	Time Delay	—	New Master Code	New Master Code
Yellow LED Status:	No Change	LED Flashes Slowly	No Change	No Change	LED Flashes Rapidly	LED Turns Off

D. Programming for Special Functions

1. Enter 99# to initiate programming sequence.
2. Enter Master Code*.
3. Enter Special Function Code.
91-Code operates Aux 1./Time Duration
92-Code operates Aux 2./Time Duration
98-Code operates Aux 1, and Control Relay (Master Code duration)
4. Enter two digit time duration desired.
Enter 01 to 90 seconds for momentary Function.
Enter 00 for Maintained Passage Function.
5. Enter User Number. Enter 01# to 16#.
6. Enter Selected User Code. Use between a one and six digit number followed by a *.
7. Repeat Step 6.

NOTES:

1. If User Number 01# is used then its user code is the master code.
2. Special function 98 should not be used with User 01#.
3. AUX1 duration is common for all users of AUX1. Changing it for one user changes it for all users.
4. Special Function 98 uses duration set in section "c" for Main Relay and common duration for AUX1. Setting a duration for Special Function 98 is ignored.

Sample Programming:

Step:	①	②	③	④	⑤	⑥	⑦
Enter:	99#	1234*	91	07	02#	7293*	7293*
Input:	Initiate Programming	Master Code	Special Function Code	Time Duration	User Number	User Code	User Code
LED Status	No Change	LED Flashes Slowly	No Change	No Change	No Change	LED Flashes Rapidly	LED Turns Off

If LED continues to flash
press * again.



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