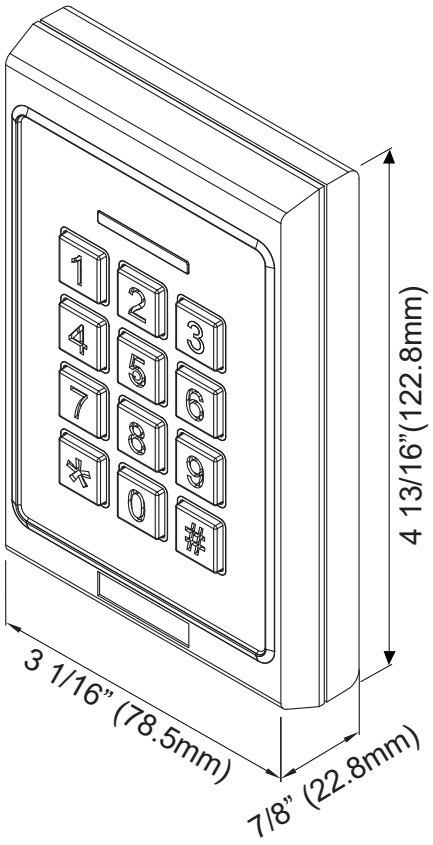
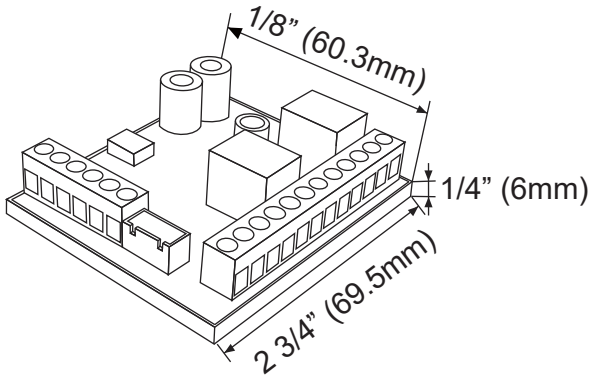
DG-750

Access Keypad with Split Controller





◆ Features

- 12~24 VAC/VDC operation
- 1,010 User codes
- 2 Form C relays, each rated 10A@30VDC
- Each relay has programmable output time from 1~99 seconds or toggle
- Output #2 can be programmed for use with a door bell
- 2 Egress inputs for exiting the premises without keying in the code
- Split controller installation protects the keypad access from magnet tampering
- Accommodate a Two Man Rule by cascading 2 relays.
- Backlit keys for easy nighttime use
- Able to mount to a single-gang back box
- Door sensor input for anti-tailgating operation
- All features are programmed directly from the keypad - no need for an external programmer
- EEPROM memory protects programmed information in case of power loss
- Tamper contact for added security
- Circuitry is potted with epoxy for outdoor use
- IP65 weatherproof rating, rugged zinc alloy construction

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◆ Specifications

Operating Voltage		12~24 VAC/VDC
Current draw	Holding	50mA/12VDC ； 31mA/24VDC
	Pull in	103mA/12VDC ； 56mA/24VDC
Relay Outputs	Output #1	Max 10A/30VDC, Form C, NO/NC/COM
	Output #2	Max 10A/30VDC, Form C, NO/NC/COM
Egress Inputs	Input #1	N.O. Ground
	Input #2	N.O. Ground
Operating Temperature		-4°~140°F (-20°~60°C)

◆ LED Indicators

LED	Keypad Status
Steady Amber	Programming Mode
Flashing Amber	Waiting to programming entry
Steady Green	Waiting to program card/code
Steady Red	Card/code already present
Steady Green	Relay 1 activated
Steady Red	Relay 2 activated

◆ Audible Indicators

Audible Tone	Keypad Status
1 Long tone	Confirmation
1 Short tone	Key press
3 Short tone	User code denied
6 Short + 1 Long tone	All user codes deleted

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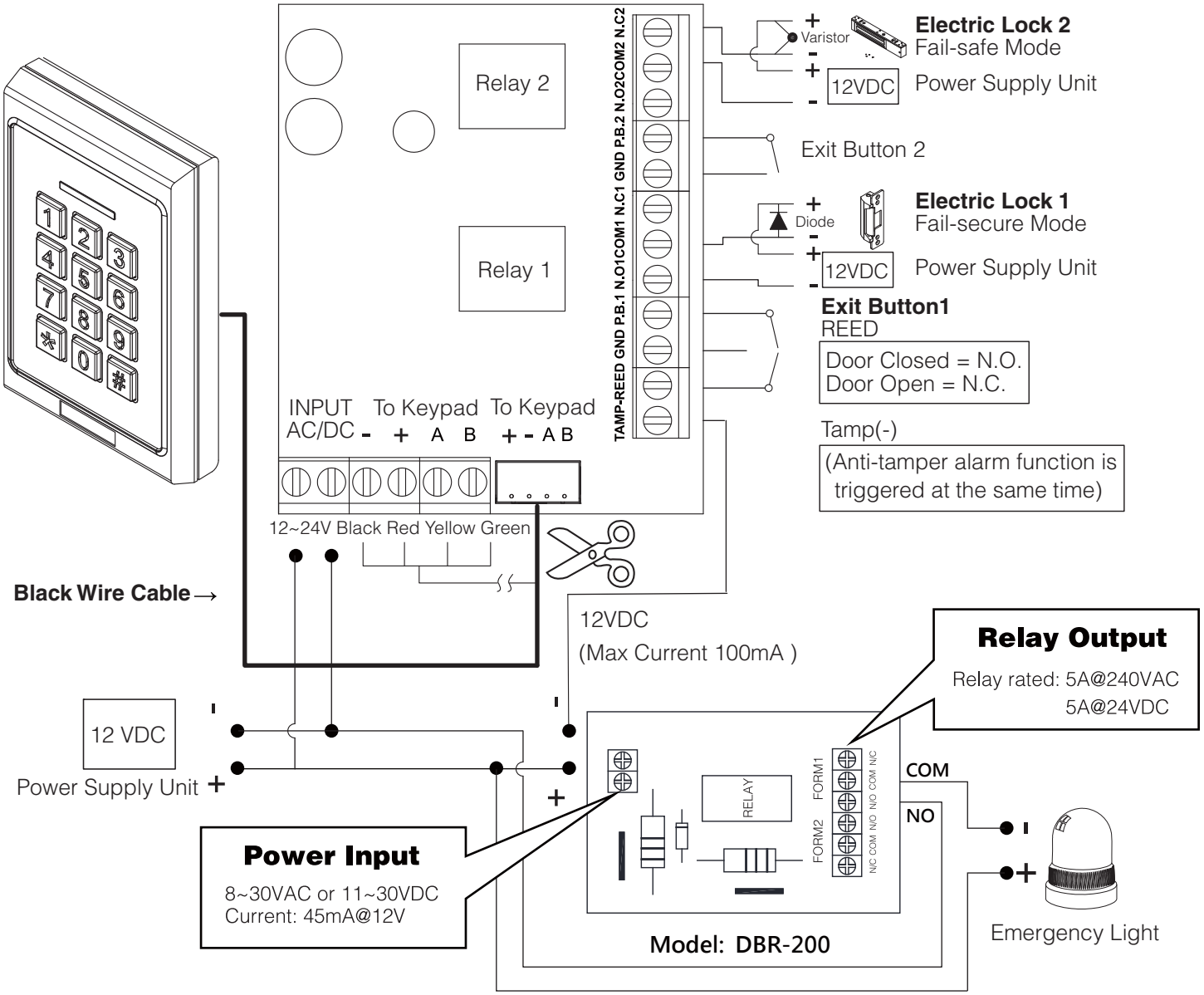
◆ Sample wiring and applications



◆ Programming Instructions

1. Codes are programmed to be 4~6 digits in length. All codes must be the same length.
2. Before inputting any of the following, enter Programming Mode by entering the Master Code twice.
   The default master code is 1234.
   To enter Programming Mode, enter 1 2 3 4 1 2 3 4
3. To exit Programming Model, press the # key.
4. The keypad will exit Programming Mode if no keys are pressed for 30 seconds.

◆ Programming Tips

- Program a new Master Code immediately.
- Take note of the keypad status LED –
  - ■ LED Solid Amber: Programming Mode
  - ■ LED Solid Green: Awaiting code entry
- If you are unsure of which mode the keypad is in, press # until the LED is off. The keypad is now in the Standby Mode. Enter the master code twice to return to Programming Mode.

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◆ First Time Keypad Use

Take these steps the first time the keypad is programmed.

A. Enter Programming Mode

Enter 1234 1234 (Default Master Code is 1234)

B. Program Code Length

NOTE: To keep the default 4-digit code length, skip to step C, Program the Master Code.

WARNING: After a new code length is programmed, all user codes will be deleted and the master code will be reset.

1. Enter Programming Mode by entering the Master Code twice. (Default Master Code is 1234).
2. Enter * 904
3. Enter the desire code length. This must be a number from 4~6.
4. Exit Programming Mode by pressing #.

The Master Code will reset depending on the programmed code length. These will be the new Master Codes after the code length is reset:

Code Length	New Master Code
4 digits	1234
5 digits	12345
6 digits	123456

C. Program the Master Code

1. Enter Programming Mode by entering the Master Code twice. (Default Master Code is 1234).
2. Enter * 3
3. Enter the new Master Code twice. The Master Code may not be the same as a user code.

Example: If the desired new Master Code is 4321, enter 4 3 2 1 4 3 2 1

4. Exit Programming Mode by pressing #.

◆ Programming Output #1:

NOTE: For all of the following programming functions, the keypad must be in Programming Mode. To enter Programming Mode, enter the Master Code twice.

Programming User Code

1. Enter a user ID number (0 0 0 to 9 9 9)
2. If the LED is red, previous user data exists. Clear it by entering * *. The keypad will beep in confirmation and the LED will turn green.
3. Enter a new user code.
4. To program the next user, repeat from step 1.
5. Exit Programming Mode by pressing #.

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◆ Programming Output #2:

NOTE: For all of the following programming functions, the keypad must be in Programming Mode.

To enter Programming Mode, enter the Master Code twice.

Programming an output #2 User Code

1. Enter * 4
2. Enter a user ID number (0 0 to 0 9)
3. if the LED is red, previous user data exists. Clear it by entering * *. The keypad will beep in confirmation and the LED will turn green.
4. Enter a new user code.
5. To program the next user, repeat from step 2.
6. Return to Programming Mode by pressing #.
7. Exit Programming Mode by pressing # again.

◆ Deleting or Changing Users:

Deleting or Changing an Output #1 User:

Step 1 Enter a user ID number: 0 0 0 to 9 9 9

Step 2 Delete existing user by entering: * *

Step 3 Enter a new user code x x x x or

Return to Programming Mode by entering #

Deleting or Changing an Output #2 User:

Step 1 Enter: * 4

Step 2 Enter a user ID number: 0 0 to 0 9

Step 3 Delete existing user by entering: * *

Step 4 Enter a new user code x x x x or

Return to Programming Mode by entering #

◆ Additional Programming:

Programming the Output# 1 Timer

DEFAULT: 1 second

Step 1 Enter: *1

Step 2 For toggle mode, enter 0 0 or for timed output, enter 01 to 99

01 to 99 is the number of seconds Output #1 will activate

Programming the Output# 2 Timer

DEFAULT: 1 second

Step 1 Enter: *5

Step 2 For toggle mode, enter 0 0 or for timed output, enter 01 to 99

01 to 99 is the number of seconds Output #2 will activate

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Programming the Output# 2 Function

Output #2 can be activated via * or through user codes. Use the following steps to program its function.

DEFAULT: User Codes

Step 1 Enter: *2

Step 2 For user codes, enter 01

For door bell, enter 02

When output #2 is programmed for doorbell, press * to activate doorbell. Doorbell output lasts 1 second.

◆ Factory Default:

NOTE: Resetting the keypad will cause some or all programmed data to be lost. Do not perform either of these steps unless it is absolutely necessary.

Deleting All Users: Enter * 8 8 8

IMPORTANT: Once key entry is made, all user codes will be deleted and the keypad will return to Programming Mode. The Master Code and all other programming settings will remain the same.

Restore Factory Settings: Enter * 8 9 9

IMPORTANT: Once key entry is made, keypad will return to factory default settings. No user information will be retained and the Master Code will be 1234.

Manually Resetting the Master Code:

If the Master Code has been forgotten or does no work, the following steps can be taken to reset the Master Code:

1. Disconnect power from the keypad.
2. Press the # key continuously and connect power again.
3. The keypad will beep to confirm a successful reset.

Note: Manually resetting the Master Code will only reset the Master Code. It will not affect the Master Code, User Code or any other saved data.

◆ Factory Default:

Code Length	4 digits
Master Code	1234
Output #1 Access Mode	User codes
Output #1 User Codes	None
Output #2 User Codes	None
Output #1 Timer	1 second
Output #2 Timer	1 second
Output #2 Function	User codes

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