

## 1 Description

DKP-NS offer field-proven reliability and cost-effective solutions anywhere access control is desired.

DKP-NS are waterproof and dustproof with IP66 protection rating and allow for up to 1010 users (zone 1: 1000 users, zone 2: 10 users), and incorporate a tamper alarm and a doorbell feature as standard options.

These are ideal for integration into security systems with electromagnetic locks, electric strikes, restricted access elevators, or gates and other types of equipment requiring on/off or momentary control inputs.

All programming is completed entirely from the keypad.



1. Mode LED
2. Door LED
3. Matrix keypad
4. Case screw (bottom of case)

## 2 Specifications

DESCRIPTION	SPECIFICATION
Supply voltage:	12 – 24 VAC/VDC (DO NOT EXCEED 30VDC or 24VAC)
Standby current:	≤ 30 mA
Working current:	≤ 160 mA
Max user codes:	1010 ( zone 1: 1000 users, zone 2: 10 users)
Relock time:	0 – 99 seconds
Output:	2 relays (free of potential change-over contact) Max. contact voltage: 42 VAC/VDC Max. contact current: 1 A (resistive) Max. switching power: 30 W (VDC) / 48 VA (VAC)
Cable length:	3 ft
Operating temperature:	-22 – 158 °F
Operating humidity:	0 – 95% (non-condensing)
IP rating:	IP66 (waterproof and dustproof)
Dimensions:	1.7" (W) x 5.9" (H) x 0.95" (D) – (44 mm x 150 mm x 24 mm)
Certification:	CE, RoHS
Backlight:	Blue keypad illumination

### ⚠ CAUTION

Product will be damaged and warranty will be voided if supply voltage exceeds 30 VDC or 24 VAC. This product shall not be used with any standard, non-regulated 24VAC transformer as the measured voltage exceeds 24 VAC.

For details regarding the limited warranty:

### Customer Service

1-877-671-7011

[www.allegion.com/us](http://www.allegion.com/us)

### 3 Precautions



CAUTION

- ❑ Shut off all power before attempting any wiring procedures.
- ❑ Maintain a clean & safe environment when.
- ❑ Constantly be aware of pedestrian traffic around the door area.
- ❑ Always check placement of all wiring before powering up to insure moving door parts will not catch any wires and cause damage to equipment.
- ❑ Ensure compliance with all applicable safety standards and building codes upon completion of installation.

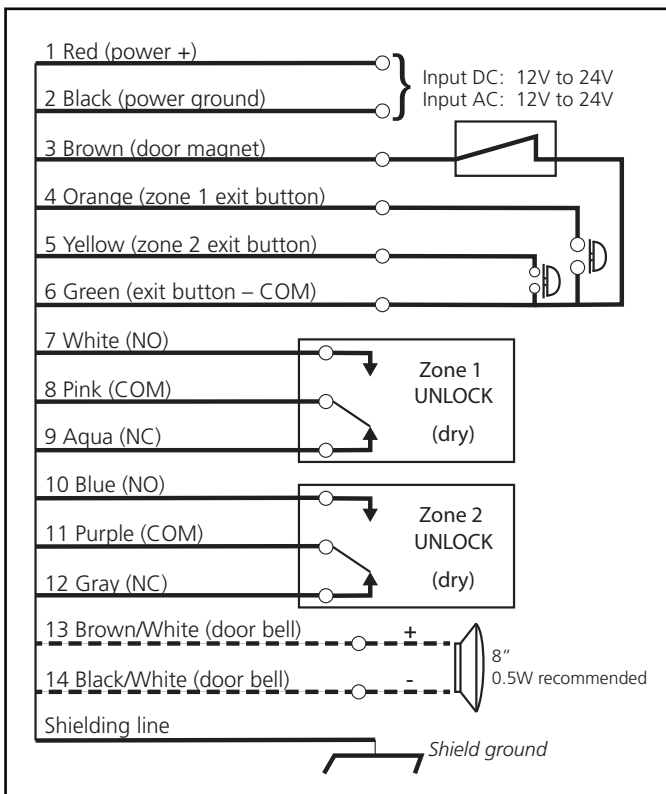
### 4 Installation Notes

- Handle the equipment with care.
- Add threadlocker to all screws before installing.
- Firmly tighten screws.

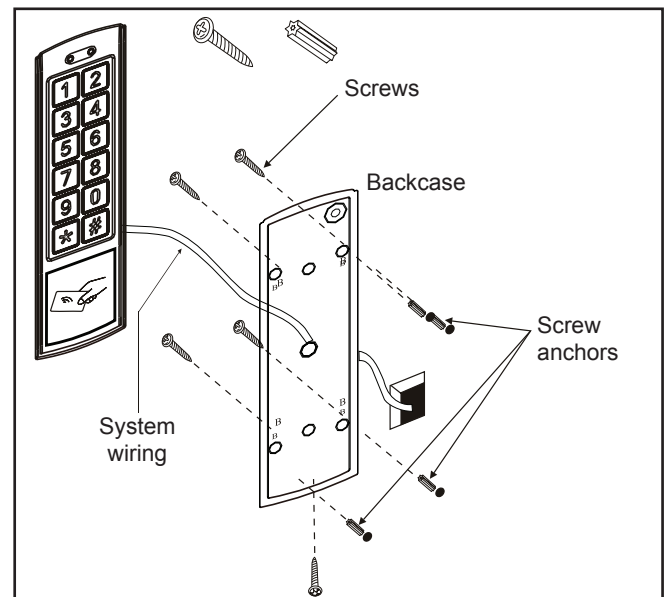
### 5 Installation – Mechanical & Electrical

1. Using the supplied hex key, remove the backcase screw from the keypad bottom.
2. Use the drilling template and drill required holes. For surface mounting, drill the 4 holes marked as B in the installation image below; for single gang box mounting, drill the 2 holes marked as A in the installation image below.
3. Mount backcase on the wall with provided screws. Make sure to pull keypad cable through the center hole (marked C, below). Keep keypad horizontal to the floor.
4. Connect the wires based on the following wiring diagram.
5. Mount keypad to the back cover by using the provided screws.

#### Electrical



#### Mechanical



## 6 Keypad Programming

### PROGRAMMING NOTES:

- ❑ If you forget the administration code, turn off the power, press and hold “#” key, and then turn the power back on. A short beep will be heard and the administration code has been restored back to 1234.
- ❑ If no buttons are pressed within 30 seconds while in “setup” mode, the device will turn back to normal function automatically. Mode LED turns green.
- ❑ If any incorrect key combinations are entered, a continuous beep will be heard.

### 1) Enter “setup” mode:

- a. Enter the default administration code (1234) twice (i.e. 1234 + 1234) to enter “setup” mode. Mode LED will turn red and a long beep will be heard.
- b. Press the “#” key to exit “setup” mode. Mode LED will turn green.

DOOR    MODE



### Modify admin code:

- a. Enter “setup” mode.
- b. Press the star (\*) key and then “3”. Mode LED will flash red.
- c. Enter a new 4-digit number (0000 – 9999) twice to set the new admin code.
- d. Press “#” to exit “setup” mode. Mode LED turns green.



### Change the length of admin code:

*Changing the admin code length will delete all existing user codes.*

*Changing the admin code length will reset the admin code back to a sequential number (similar to that in step 1a), consisting of the correct amount of digits (e.g. if the admin code length is changed to 6 digits, the admin code defaults to “123456”).*

- a. Enter “setup” mode.
- b. Press the star (\*) key and then “9”. Mode LED will flash red.
- c. Press “0” and then “4”. A short beep will sound. Mode LED will turn red.
- d. Enter the length of the admin code in digits, ranging from “2” to “6” (“2” is the minimum code length, and “6” is the maximum).
  - one beep = admin code length successfully changed
  - three beeps = admin code length is equal to existing length
- e. Press “#” to exit “Admin code length setup” mode. Mode LED remains red.
- f. Press “#” again to exit “setup” mode. Mode LED turns green.















## 6 Keypad Programming (cont.)

### 2a) Add user code to zone 1:

*This code must be different from the admin code.*

- Enter "setup" mode.
- Press the star (\*) key and then "9". Mode LED will flash red.
- Press "0" and then "2". A short beep will sound. Mode LED will turn red.
- Enter a 3-digit number (000 – 999) to set the electronic location for the zone 1 user code. LED remains red, and a short beep will sound after entering the 3-digit number.
- Enter the new user code. *The user code must be the same length as the admin code.* A long beep will sound. User code is successfully added. *The new code will replace the existing code stored in the same location.*
- Repeat the previous two steps to add more codes.
- Press "#" to exit "Add user code to zone 1" mode. Mode LED remains red.
- Press "#" again to exit "setup" mode. Mode LED turns green.

**NOTE:** *When zone 1 output relay is activated, the door indicator LED will turn green.*

DOOR	MODE
	 red flashing
	 red
	 red
	 red
	 green
	 green













(when zone 1 relay is active)

### 2b) Add user code to zone 2:

*This code must be different from the admin code and the user code for zone 1.*

- Enter "setup" mode.
- Press the star (\*) key and then "9". Mode LED will flash red.
- Press "0" and then "3". A short beep will sound. Mode LED will turn red.
- Enter a 2-digit number (00 – 99) to set the electronic location for the zone 2 user code. LED remains red, and a short beep will sound after entering the 2-digit number.
- Enter the new user code. *The user code must be the same length as the admin code.* A long beep will sound. User code is successfully added. *The new code will replace the existing code stored in the same location.*
- Repeat the previous two steps to add more codes.
- Press "#" to exit "Add user code to zone 2" mode. Mode LED remains red.
- Press # again to exit "setup" mode. Mode LED turns green.







**NOTE:** *When zone 2 output relay is activated, the door indicator LED will turn red.*

	 red flashing
	 red
	 red
	 red
	 green
	 green

(when zone 2 relay is active)







### 3a) Set unlocking time for zone 1:

- Enter "setup" mode.
- Press the star (\*) key and then "1". Mode LED will flash red.
- Enter a 2-digit number (00 – 99) for the "unlock time" value.
  - "00" = sets "unlock time" to toggle mode ("00" to both open and close the door)
  - "01" – "99" = "unlock time" in seconds
- After entering the "unlock time" number, a long beep will sound and the mode LED turns red.
- Press "#" again to exit "setup" mode. Mode LED turns green.

	 red flashing
	 red
	 green

### 3b) Set unlocking time for zone 2:

- Enter "setup" mode.
- Press the star (\*) key and then "5". Mode LED will flash red.
- Enter a 2-digit number (00 – 99) for the "unlock time" value.
  - "00" = sets "unlock time" to toggle mode ("00" to both open and close the door)
  - "01" – "99" = "unlock time" in seconds
- After entering the "unlock time" number, a long beep will sound and the mode LED turns red.
- Press "#" again to exit "setup" mode. Mode LED turns green.

	 red flashing
	 red
	 green

## 7 Additional Procedures

### OPTIONAL: Door bell and tamper alarm

#### 4a) Door bell:

- Connect an external speaker (8Ω, 0.5w) to brown/white and black/white wires of this device.
- Press the star (\*) key and the external speaker rings as a door bell.

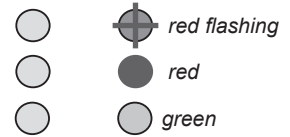
#### 4b) External tamper alarm:

*This feature allows a built-in buzzer to activate if the keypad is removed from the wall. The alarm will stop automatically in 60 seconds or if the admin code is entered before the 60-second timeout.*

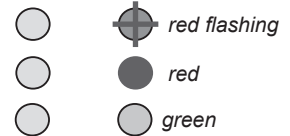
**FACTORY DEFAULT: OFF**

- To turn on the tamper alarm feature, enter "setup" mode.
- Press the star (\*) key and then "6". Mode LED will flash red.
- Press "0" and then "2". A long beep will sound. Mode LED will turn red.
- Press "#" again to exit "setup" mode. Mode LED turns green.

DOOR    MODE

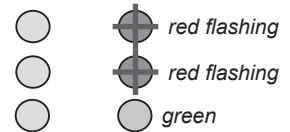


- To turn off the tamper alarm, enter "setup" mode.
- Press the star (\*) key and then "6". Mode LED will flash red.
- Press "0" and then "1". A long beep will sound. Mode LED will turn red.
- Press "#" again to exit "setup" mode. Mode LED turns green.



### OPTIONAL: Remove all user codes

- Enter "setup" mode.
- Press the star (\*) key and then "8". Mode LED will flash red.
- Press "8" twice. A long beep will sound. Mode LED will flash red.
- Press "#" again to exit "setup" mode. Mode LED turns green



### OPTIONAL: Restore to factory defaults

- Enter "setup" mode.
- Press the star (\*) key and then "8". Mode LED will flash red.
- Press "9" twice. A long beep will sound. Mode LED will flash red.
- Press "#" again to exit "setup" mode. Mode LED turns green

