RUTLAND

Enhancing **compliance**
and **performance** at every door

Waterproof IP68 Keypad for Automatic Door Closer

Fitting Instruction

rutlanduk.co.uk

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1. Packing List

Name	Quantity	Remarks
Keypad	1	
User manual	1	
Screw driver	1	Ø20mm x 60, special for keypad
Rubber plug	2	Ø6mm x 30, used for fixing
Self tapping screws	2	Ø4mm x 28, used for fixing
Star screws	1	Ø3mm x 6, used for fixing

2. Quick Reference Programming Guide

Enter the programming mode	* Master code # 999999 is the default factory master code
Exit from the programming mode	*
Note that to undertake the following programming the master user must be logged in	
Change the master code	0 New code # new code # The master code can be 6 digits
Add a PIN user	1 User ID number # PIN # The ID number is any number between 1 & 2000. The PIN is any four digits between 0000 & 9999 with the exception of 1234 which is reserved. Users can be added continuously without exiting programming mode
Add a card user	1 Read Card # Cards can be added continuously without exiting programming mode
Delete a PIN or a card user	2 User ID number # for a PIN user or 2 Read Card # for a card user Users can be deleted continuously without exiting programming mode
Unlock the door for a PIN user	Enter the PIN then press #
Unlock the door for a card user	Present the card

3. Description

The unit is single door multifunction standalone access controller or a Wiegand output keypad or card reader. It is suitable for mounting either indoor or outdoor in harsh environments. It is housed in a strong, sturdy and vandal proof Zinc Alloy electroplated case which is available in either a bright silver or matt silver finish. The electronics are fully potted so the unit is waterproof and conforms to IP68. This unit supports up to 2000 uses in either a Card, 4 digit PIN, or a Card + PIN option. the inbuilt card reader supports 125kHz EM cards, 13.56MHz Mifare cards. The unit has many extra features make the unit an ideal choice for door access not only for small shops and domestic households but also for commercial and industrial applications such as factories, warehouses, laboratories, banks and prisons.

4. Features

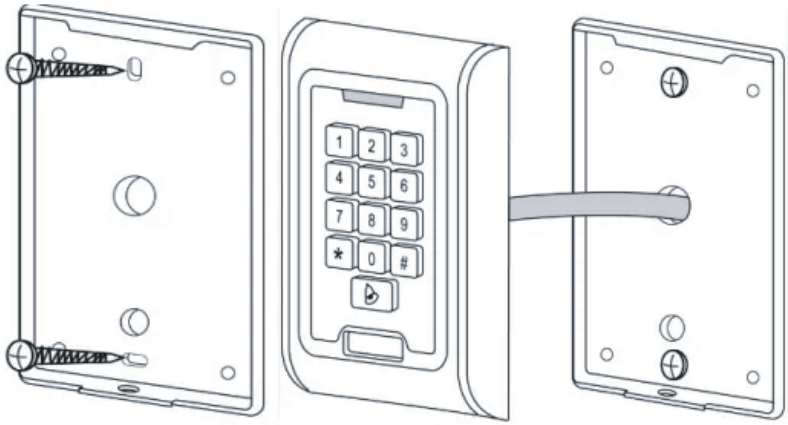
- Waterproof, confirms to IP65/IP68
- Strong Zinc Alloy Electroplated anti-vandal case
- Full programming from the keypad
- 2000 users, supports Card, PIN, Card + PIN
- Can be used as a stand alone keypad
- Backlight keys
- Wiegand 26 input for connection to external reader, Wiegand 26 output for connection to a controller
- Adjustable Door Output time, Alarm, Door Open time
- Very low power consumption (30mA)
- Fast operating speed, <20ms with 2000 users
- Lock output current short circuit protection
- Easy to install and programme
- Built in buzzer
- Red, Yellow and Green LEDs display the working status

5. Specifications

Operating Voltage	DC12V
User Capacity	2000
Card Reading Distance	3-6 cm
Active Current	< 60mA
Idle Current	25±5mA
Lock Output Load	Max 1A
Operating Temperature	-45°C - 60°C
Operating Humidity	10% - 90%RH
Waterproof Degree	IP68
Adjustable Door Relay Time	0-99 seconds
Wiring Interface	Wiegand 26 bit
Wiring Connections	Electric Lock, Exit Button, External Alarm

6. Installation

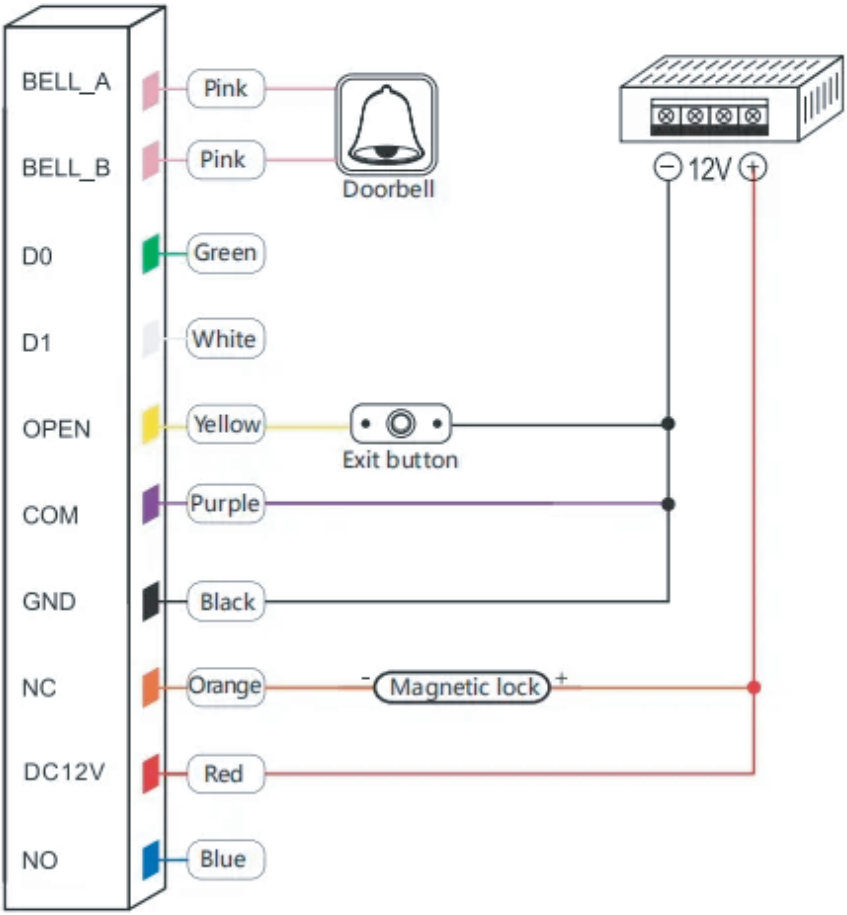
- Remove the back cover from the keypad using the supplied special screw driver
- Drill 2 holes on the wall for the self tapping screws and dig a hole for the cable
- Put the supplied rubber bungs into the two holes
- Fix the back cover firmly on the wall with 2 self tapping screws
- Thread the cable through the cable hold
- Attach the keypad to the back cover.



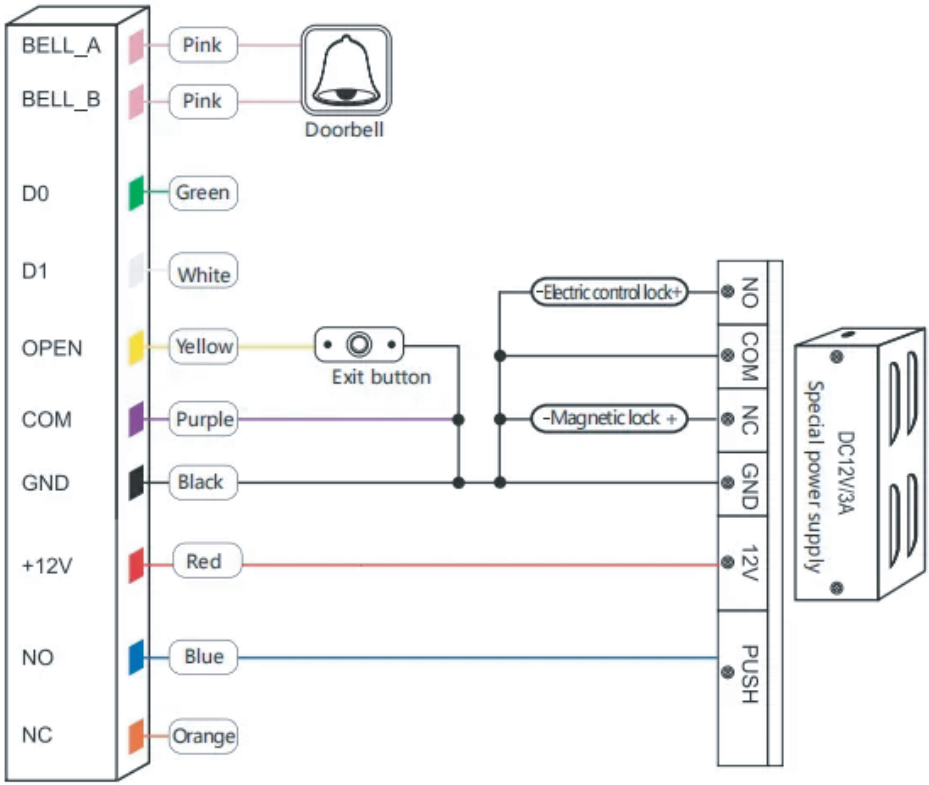
7. Wiring

Color	Function	Description
Pink	BELL_A	Doorbell button one end (optional)
Pink	BELL_B	Doorbell button to the other end (optional)
Green	D0	WG output D0
White	D1	WG output D1
Yellow	OPEN	Exit button one end (the other end connected GND)
Red	12V+	12V+ DC Regulated Power Input
Black	GND	12V - DC Regulated Power Input
Blue	NO	Relay normally-on end (Connect positive electric lock "-")
Purple	COM	Relay Public end, connect GND
Orange	NC	Relay Closed end (connect negative electric lock "-")

7. Wiring - Common Power supply diagram



7. Wiring - Special Power supply diagram



8. Reset to Factory Default

a. Power off
b. Press and hold # key whilst powering on or press exit button continuously, then power on
c. On hearing tick twice, release # key, system is back to factory settings now

Registered users won't be deleted when reset to factory default

9. Sound and Light Indication

Operate Status	LED Light Color	Buzzer
Standby	Flash Red Slow	
Keypad		Short Tick Once
Operation Successful	Green	Long Tick Once
Operation Failed		Short tick 3 Times
Entering into Programming	Red	Long Tick Once
Programmable Status	Orange	
Exit Programming	Flash Red Slow	Long Tick Once
Door Opening	Green	Long Tick Once
Alarm	Flash Red Quick	Alarming

10. Detailed Programming Guide
User Settings

Enter the programming mode	* Master code # 999999 is the default factory master code
Exit from the programming mode	*
Note that to undertake the following programming the master user must be logged in	

Important: The master code is set to a factory default at installation. This must be changed and securely recorded by Rutland or the installing engineer before handover. If the default master code is left unchanged, anyone with access to it (or to this manual) could reprogram the keypad and compromise the security of the door.

11. Detailed Programming Guide (cont.)

Change the master code	0 New code # New code # The master code can be 6 digits long
Setting the working mode: Set valid card users only Set valid card and PIN users Set valid card or PIN users	3 0 # Entry is by card only 3 1 # Entry is by card and PIN together 3 2 # Entry is by either card or PIN (default)
Add a user in either card or PIN mode, i.e. in the 3 2 # mode. (Default settings)	
Add a PIN user	1 User ID number # PIN # The ID number is any number between 1 & 2000. The PIN is any four digits between 0000 & 9999 with the exception of 1234 which is reserved. Users can be added continuously without exiting programming mode as follows: 1 User no1 # PIN # User ID no2 # PIN #
Delete a PIN user	2 User ID number # Users can be deleted continuously without exiting programming mode
Change the PIN of a PIN user (This step must be done out of programming mode)	* ID number # Old PIN # New PIN # New PIN # Users can be deleted continuously without exiting programming mode
Add a card user (method 1) This is the fastest way to enter cards, user ID number auto generation	1 Read card # Cards can be added continuously without exiting programming mode
Add a card user (method 2) This is the alternative way to enter cards using User ID Allocated. In this method a User ID is allocated to a card. Only one use ID can be allocated to a single card	1 ID number # Read card1 ID number # Read card2 ... # Users can be deleted continuously without exiting programming mode
Add a card user (method 3) Card number is the last 8 digits printed on the back of the card, user ID number auto generation	1 8 digits card number # Users can be deleted continuously without exiting programming mode
Add a card user (method 4) In this method a User ID is allocated to a card number. Only one user ID can be allocated to the card number	1 ID number # 8 digits card number # Users can be added continuously without exiting programming mode

Delete a card user by card. Note users can be deleted continuously without exiting programming mode	2 Read Card #
Delete a card user by user ID. This option can be used when a user has lost their card	2 User ID #
Delete a card user by card number. This option can be used when the user want to make the change but the card has lost	2 Card number # Note users can be deleted continuously without exiting programming mode
Add a card and PIN user in card and PIN mode (3 1 #)	
Add a card and PIN user. (the PIN is any four digits between 0000&9999 with the exception of 1234 which is reserved.)	Add the card as for a card user Press * to exit from the programming mode Then allocate the card a PIN as follows: * Read card 1234 # PIN # PIN #
Change a PIN in card and PIN mode (Method 1) Note that this is done outside programming mode so the user can undertake this themselves	* Read card Old PIN # New PIN # New PIN #
Change a PIN in card and PIN mode (Method 2) Note that this is done outside programming mode so the user can undertake this themselves	* ID number # Old PIN # New PIN # New PIN #
Delete a Card and PIN user just delete user ID	2 User ID #
Add a card user in card mode (3 0 #)	
Add and delete a card user or PIN user	The operating is the same as adding and deleting a card user or PIN user in 3 2 #
Delete All users	
Delete All users. Noted that this is a dangerous option so use with care	2 0000 #
Unlock the door	
By PIN	Enter the PIN then press #