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xpr EX7 V2 Standalone Keypad Instruction Manual

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EX7 V2 Standalone Keypad

The EX7 V2 Standalone Keypad is a device designed for secure access control. It features a tamper switch and can be used with 12/24V DC or AC power supplies. The keypad includes memory positions for user codes and relays that can be assigned using the programming flowchart.

Features

- Secure access control
- Tamper switch
- Can be used with 12/24V DC or AC power supplies
- Memory positions for user codes and relays

Mounting

The keypad should be mounted using three 4 x 30mm screws and two M3 x 6mm security screws. The mounting hole should be 6mm in diameter. A jumper on the device should be open for normal operation.

Programming Flowchart

The programming flowchart allows you to assign user codes and relays to memory positions. To assign a user code, enter the master code followed by the memory position and user code. To assign a relay, enter the master code followed by the memory position, relay number, and desired mode of operation.
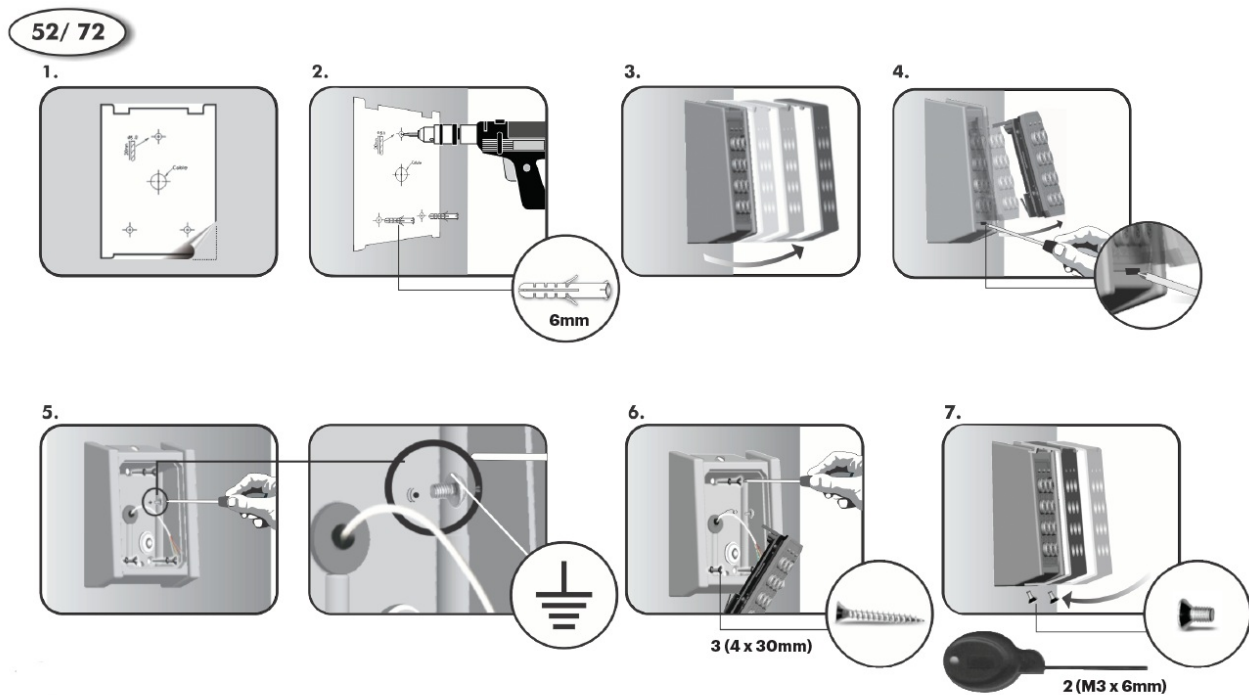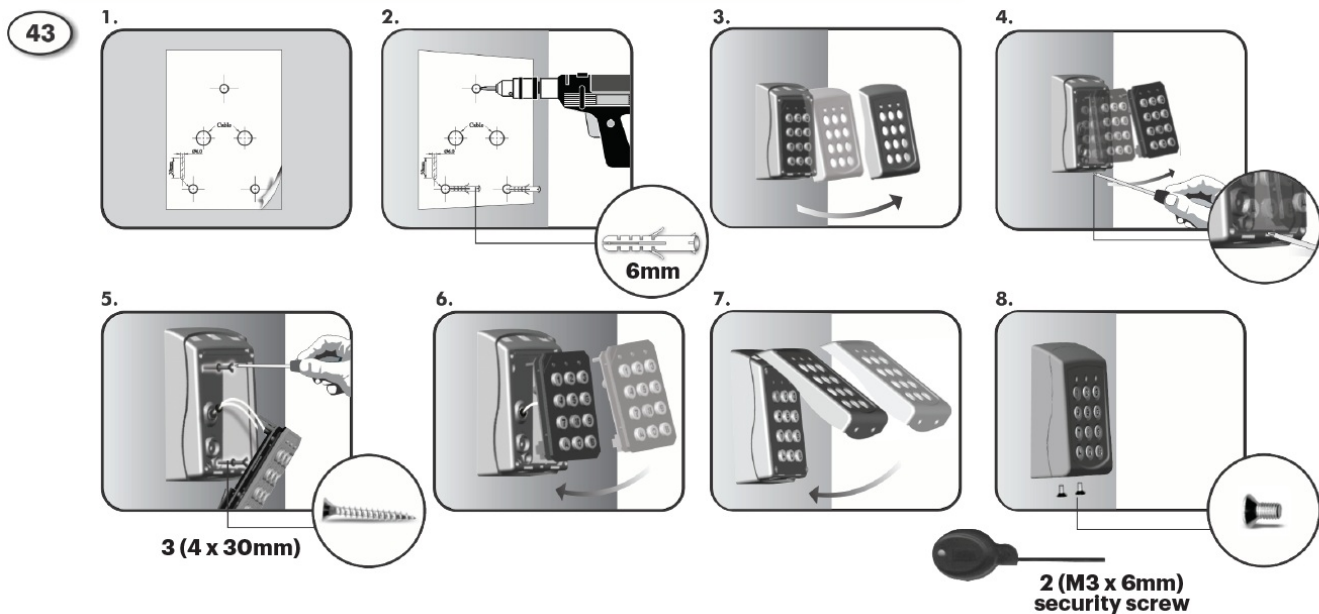
Applications

The EX7 V2 Standalone Keypad can be used for a variety of applications including alarm systems, push button access control, blinds, and gates.

FEATURES

- Operates on 12/24V AC/DC

  Backlit keys (metal or plastic)
- 99 User codes (1 to 8 digits)
- 30 second lockout after 8 invalid attempts
- 2 free tension LEDs (Red & Green)
- 4 relays (R1/R2/R3/R4: 3A/24V AC/DC)

- Relay in latch (00) or pulsed mode (01 to 99 sec)
- 2 Pushbuttons to operate relays
- Current Consumption Standby: 26 mA Maximum: 140 mA
- Dustproof and waterproof (IP65)

MOUNTING

43

1. 2. 3. 4.
6mm

5. 6. 7. 8.
3 (4 x 30mm)
2 (M3 x 6mm) security screw

52/ 72

1. 2. 3. 4.
6mm

5. 6. 7.
3 (4 x 30mm)
2 (M3 x 6mm)

1.

2.

6mm

3.

4.

5.

3 (4 x 30mm)

6.

4 (M3 x 6mm)

7.

84mm

120mm

40mm

43B

90mm

120mm

40mm

52B/G, 72C

105mm

140mm

102A/B/G

WIRING

Max. 50m

12/24V AC/DC

Jumper opened

Jumper closed
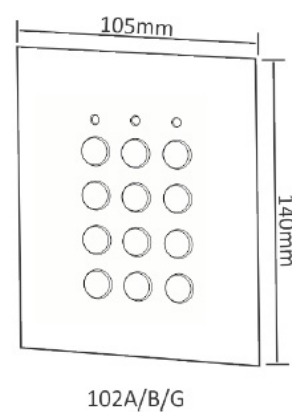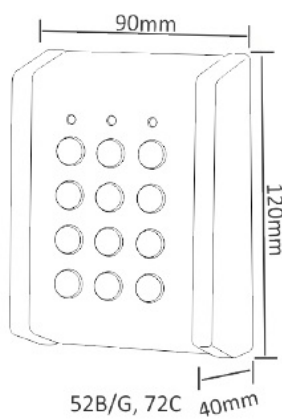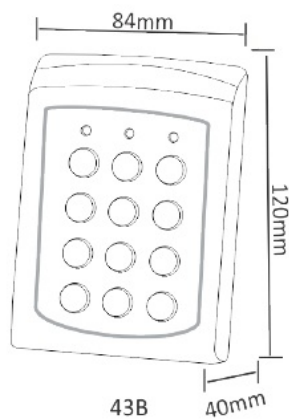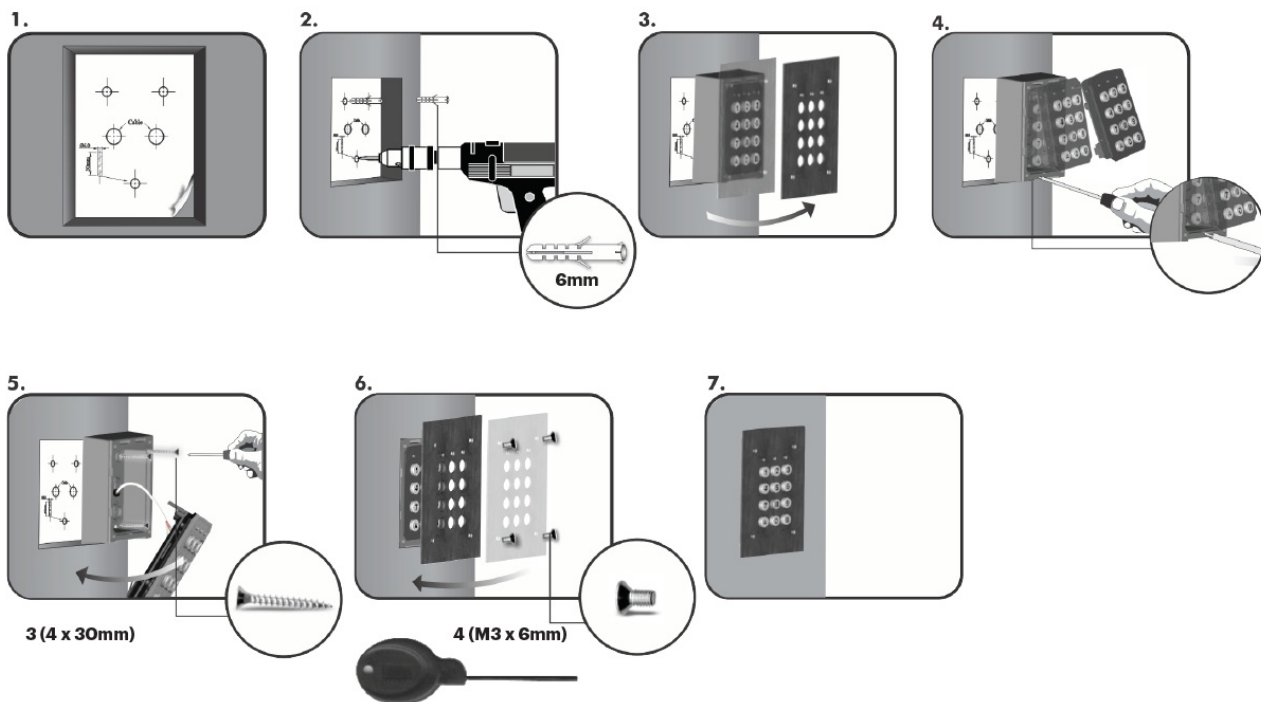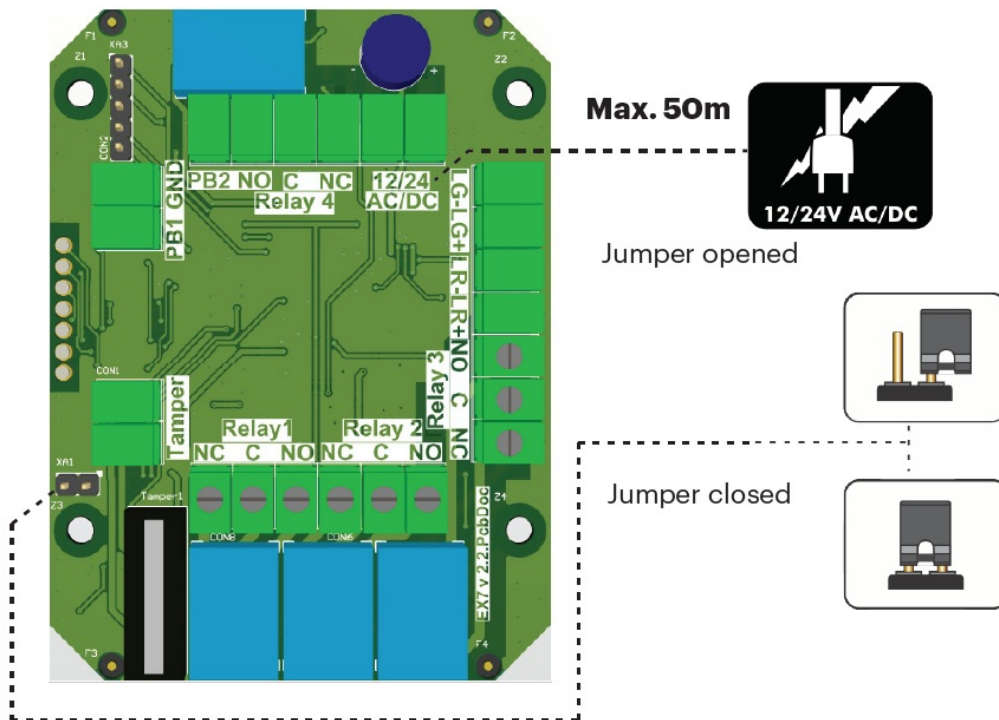
CONNECTING STRIKE TO RELAYS

12/24V DC (CC):

Diode 1N4007
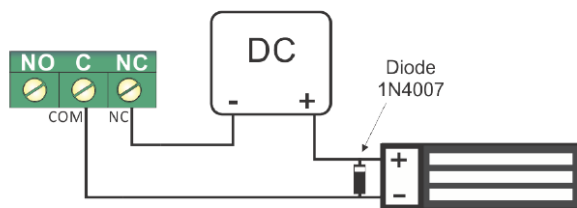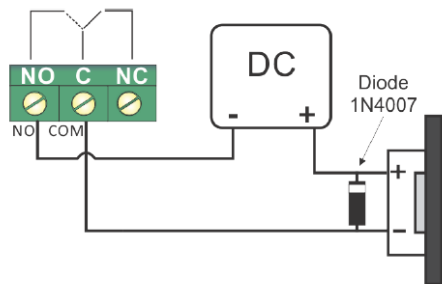
12/24V AC (CA):

Capacitor + Resistor

$10K\Omega$ $1/2W$
$470nF$

Diode 1N4007
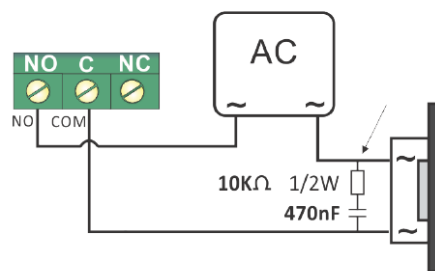
NO: Normally open   **C:** Common   **NC:** Normally closed

CONNECTING VOLTAGE FREE LEDS

12V

12V DC (CC)

LED

+ 12V

12V AC (CA)

LED

Diode 1N4001

+ 12V ~

24V

24V DC (CC)

LED

$1k\Omega / 1W$

+ 24V

24V AC (CA)

LED

Diode 1N4001 $1k\Omega / 1W$
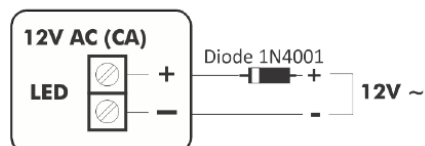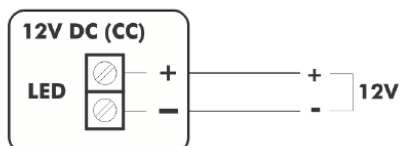
+ 24V ~
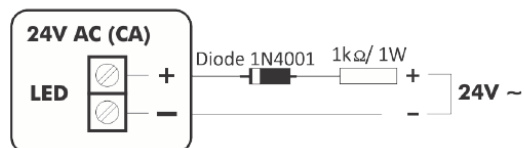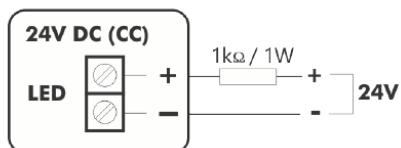
CONNECTING LEDS FOR RELAY STATUS

12V DC (CC):

12V AC (CA):

TAMPER SWITCH

EXIT BUTTON

EX7

PB1 — Exit button 1
GND
PB2 — Exit button 2

PROGRAMMING FLOWCHART

```
                              ┌─────────┐
                              │  Start  │
                              └────┬────┘
                                   │
         ┌─────────────────────────┴──────────────────────────┐
         │ Enter "Master Code" OR "000" (if first time use) │◄──────┐
         └─────────────────────────┬──────────────────────────┘      │
                                   │                                  │
                      ┌────────────┴───────────┐                      │
                      │ Validate by pressing (B)│                     │
                      └────────────┬───────────┘                      │
                                   │                                  │
                            ╱─────────────╲        No   ┌──────────────────────────┐
                           ╱ Validation OK? ╲──────────►│   Multiple small beeps    │
                           ╲               ╱            │             +             │
                            ╲─────────────╱             │ Yellow LED blinks rapidly │
                                   │ Yes                └──────────────────────────┘
         ┌─────────────────────────┴──────────────────────────┐
         │ 1 small beep + 1 long beep + Yellow LED is 'on'   │
         └─────────────────────────────────────────────────────┘
```

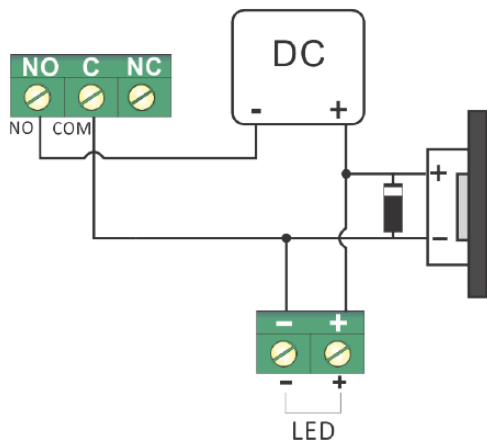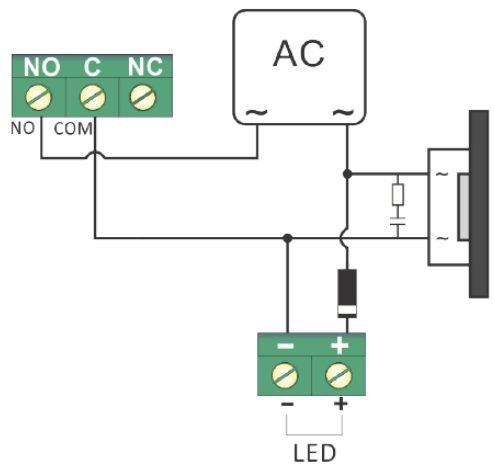| Assign a User Code	Change Master code	Assign Output	Set Output Timer	Assign Relay to Exit Button	Delete Single Code	Delete All Codes
Press (**0**)	Press (**0**)	Press (**7**)	Pulsed Mode (01 to 99 sec):		Press (**9**)	Press (**8**)
+	+	+	Relay 1 : Press 1	Press (**5**) for PB1	+	+
Memory position from **01** to **99**	Memory position (**00**)	Memory position from (**01** to **99**)	Relay 2 : Press 2	Press (**6**) for PB2	Memory position from (**01** to **99**)	(**99**)
		+	Relay 3 : Press 3	+		
		Press (**1**) for Relay 1	Relay 4 : Press 4	Press (**1**) for Relay 1		
		And/Or	+	And/Or		
		Press (**2**) for Relay 2	01 to 99	Press (**2**) for Relay 2		
		And/Or	Or	And/Or		
		Press (**3**) for Relay 3	Latch Mode (ON/OFF):	Press (**3**) for Relay 3		
		And/Or	Press (**1**) or (**2**) or (**3**) or (**4**)	And/Or		
		Press (**4**) for Relay 4	+ (**00**)	Press (**4**) for Relay 4		

```
   ┌───────────┐   ┌─────────┐
   │ Proximity │   │ Keypad  │
   │  Reader   │   │ Reader  │
   └─────┬─────┘   └────┬────┘
         │              │
         │       ┌──────┴────────────┐      ┌─────────────────┐
         │       │ Enter new code    │─────►│ Press A to validate │
         │       │ (1 to 8 digits)   │      └────────┬────────┘
         │       └───────────────────┘               │
         │                                     ╱──────────────╲   No
         │                                    ╱  Validation   ╲──────►
         │                                    ╲    OK?        ╱
   ┌─────┴──────────────┐                      ╲──────────────╱
   │ Present Card/Tag   │──────────────────────────►│ Yes
   │ before the Reader* │                           │
   └────────────────────┘              ┌────────────┴────────────────┐
                                       │ Press B (Yellow LED is 'off') │
                                       └────────────┬────────────────┘
                                                ┌───┴───┐
                                                │  End  │
                                                └───────┘
```
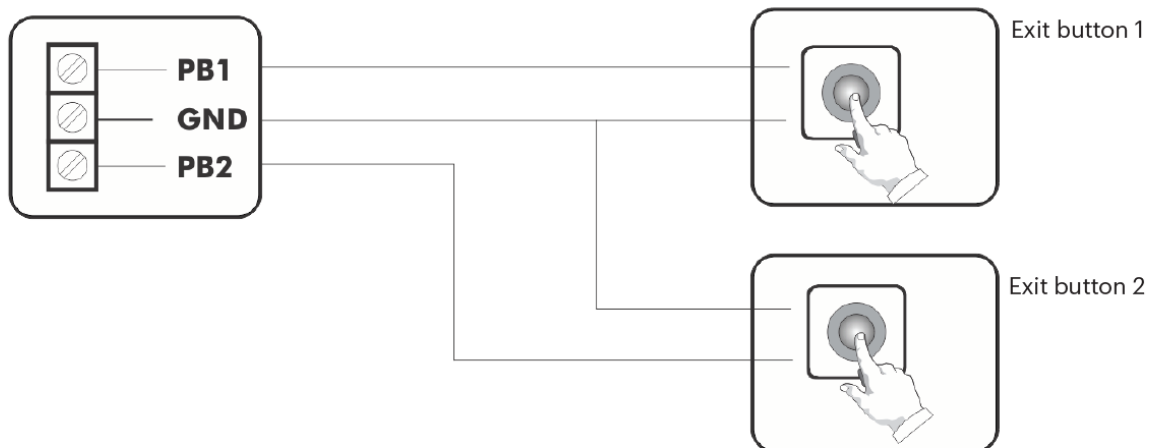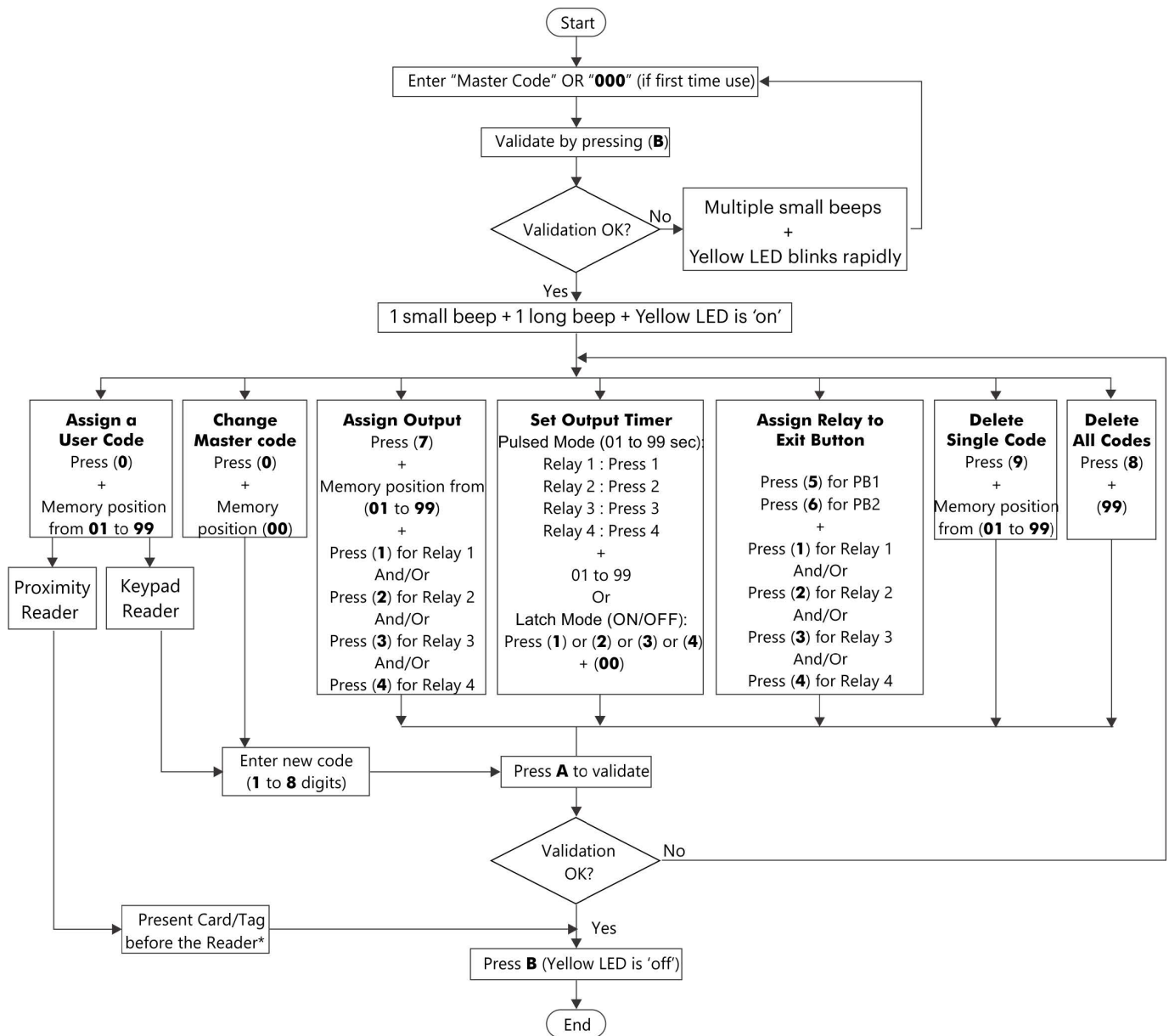
Notes

Memory Position for User Code is always 2 digits

* no need to validate with A

Assign Examples

- Ex.1: To assign User Code "12345" at Memory Position "5" and Relay 1 (2A) in Latch Mode assuming Master Code = 000

  Pre 000Bss + 0 + 05 + 12345 + A + 7 + 05 + 1 + A + 1 + 00 + A + B.

- Ex. 2: To assign User Code "6789" at Memory Position "6" and Relay 2 that activates for 5 seconds assuming Master Code = 000

APPLICATIONS

Door strike

Lights

Alarm

Push button

Blinds

Gates
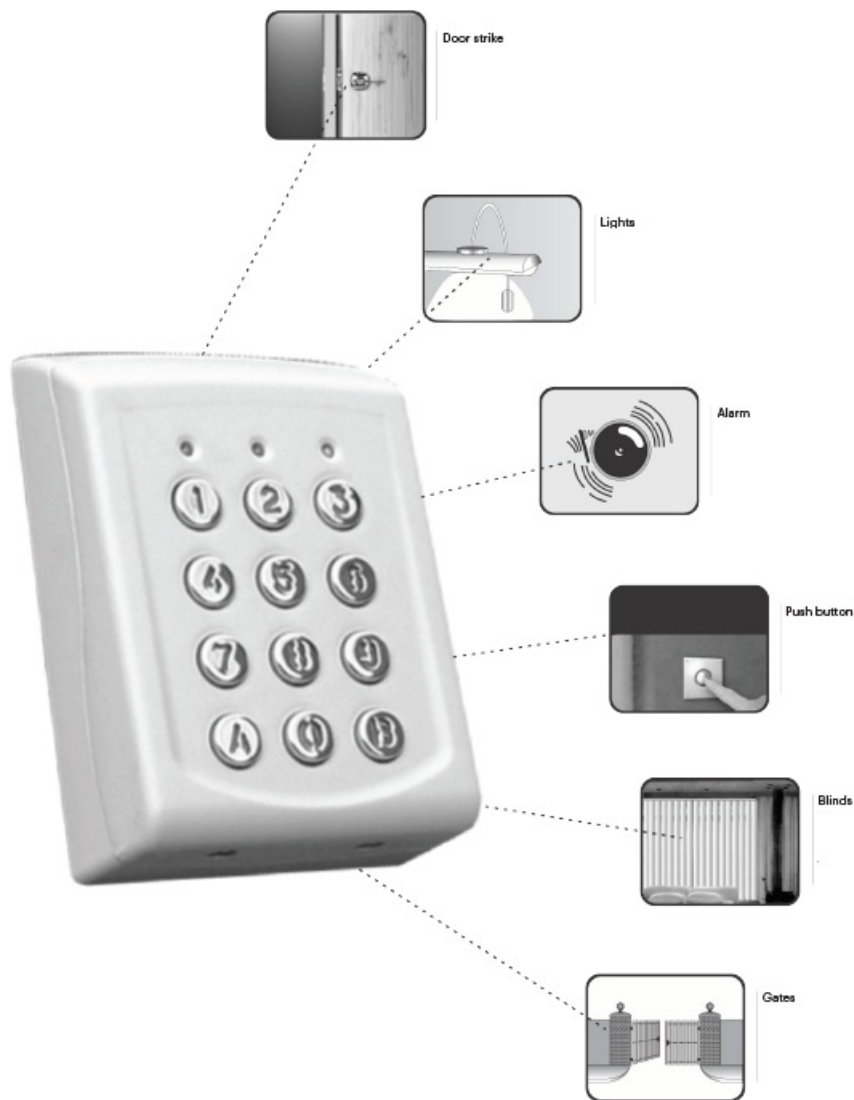
This product herewith complies with requirements of EMC directive 2014/30/EU. In addition it complies with RoHS2 directive EN50581:2012 and RoHS3 Directive 2015/863/EU.

Website: www.xprgroup.com

Documents / Resources

xpr EX7 V2 Standalone Keypad [pdf] Instruction Manual
EX7 V2 Standalone Keypad, EX7 V2, Standalone Keypad, Keypad

References

- **X** **XPR Group - Safe access systems provider**