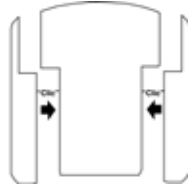## SURFACE KEYPAD

With 2 safety screws

108 x 83 x 19 mm

## INBUILT KEYPAD
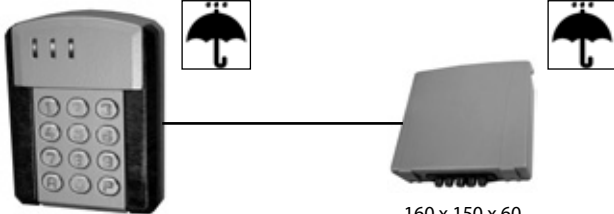
At the bottom of a standard electrical box
Between axes : 60

**+**

108 x 83 x 19 mm

## REMOTE ELECTRONICS SURFACE

160 x 150 x 60

GREEN LED | DC+ | DC-GROUND | W1/DATA | WØ/CLOCK | RED LED
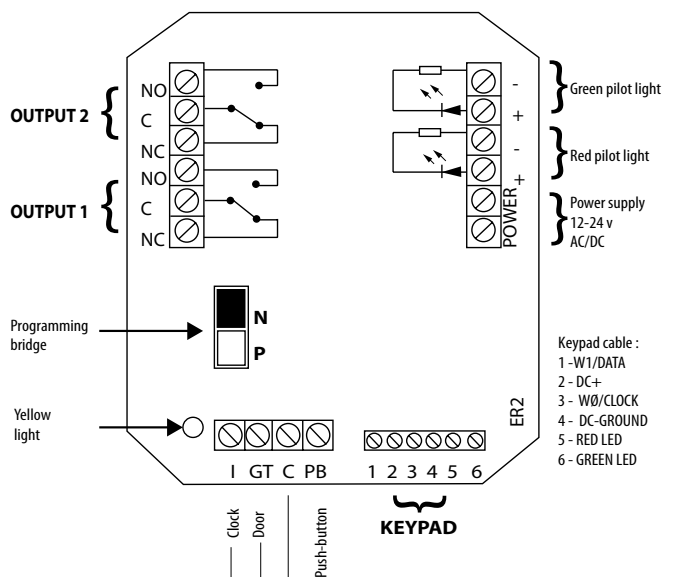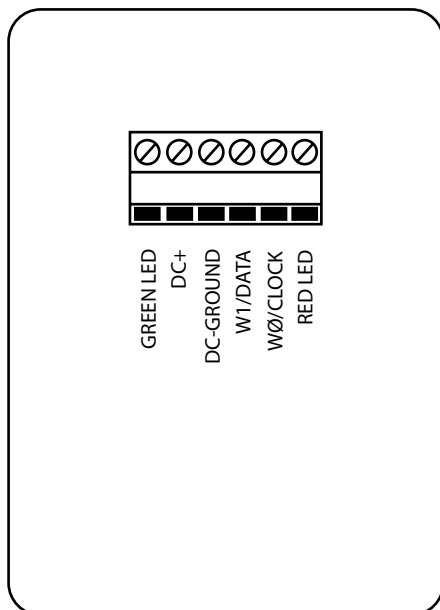
⚠ **THE KEYPAD IS A SUN-S-WDT IN WIEGAND MODE FOR SUN-S**

# $S$

# QKEYSUNS

## ❶ TECHNICAL FEATURES

- Automatic power voltage: 12 to 24 V AC/DC High performance
- Consumption: Min. 10 mA - Max. 130 mA
- Operating temperature: - 30°C to + 50°C
- Watertightness of keypad : IP66
- Watertightness of remote electronics : surface IP55, inbuilt not watertight
- Master code for access control
- 250 programmable user codes each one from 1 to 8 digits
- Non-volatile EEPROM memory
- Programmable self-protection
- 2 relays outputs 5 A, NA/NC
- Programmable output configuration for operation/Stop or push button (000 to 240 seconds)
- Metal keys
- Safety screws
- 3 interchangeable colours (kit supplied)
- 2 power-on indicators available
- Automatic or constant keypad ilumination
- Audible signal for operations in progress (BEEP)
- Push-button input available for OUTPUT N°1
- Door detection input (forcing door or maximum opening time)
- Clock input (free access with key P or time allocation)
- Security : after 8 incorrect codes entered, blocks and emits an alarm signal for 30 seconds or activation of alarm
- Security, twin, accelerated and panic modes for alarm connection
- Automatic and manual modes for automation connection

**The keypad is designed to work with a 50 m cable maximum.**
**If the cable is extended,we won't be able to guarantee the optimum working of the product.**

## ❷ CONNECTION

**OUTPUT 2** { NO / C / NC
**OUTPUT 1** { NO / C / NC

- Green pilot light
- Red pilot light
- Power supply 12-24 v AC/DC

Programming bridge → N / P

Yellow light

I  GT  C  PB          1 2 3 4 5 6

Clock | Door | Push-button

**KEYPAD**

ER2

Keypad cable :
1 - W1/DATA
2 - DC+
3 - WØ/CLOCK
4 - DC-GROUND
5 - RED LED
6 - GREEN LED

■ High position : **N**
Normal keypad operation

□ Position basse : **P**
Allows access to the memory without having to key the master code.

Factory setting : Position **N**

# ❸ EASY PROGRAMMING

**IMPORTANT! it is imperative that the keypad should be connected to its remote electronics.**
• **PROGRAM A MASTER CODE : T**he code of origine is **0 0 0**
Key in **0 0 0** then **P** *The yellow light comes on*
Press **0** and **0 0 0** Key in the new master code (1 to 8 digits)
*Example 5823 :* Press **0** and **0 0 0** Key in **5 8 2 3** then **A** and **P**
*The yellow light goes off*

• **ENTER PROGRAMMING MODE**
Just key in your new master code **5 8 2 3** and **P**
*The yellow light comes on*

• **PROGRAM USER CODES FROM 001 TO 250**
CODE N° 001 : Press **0** then **0 0 1** Key in the code (1 to 8 digits)
*Example 18126 :* Press **0** and **0 0 1** then **1 8 1 2 6** and **A**
CODE N° 151 : Press **0** and **1 5 1** key in the code (1 to 8 digits)
*Example 057558 :* Press **0** and **1 5 1** then **0 5 7 5 5 8** and **A**

• **PROGRAM THE PUSH-BUTTON TIME (001 TO 240 SECONDS) OR IN OPERATION/STOP**
*Example of push-button time of 6 seconds relay 1:* Press **1** then **0 0 6** and **A**
*Example of operation/Stop relay 2:* Press **2** then **0 0 0** and **A**

> *Codes 001-150 to OUTPUT 1 - Codes 151-250 to OUTPUT 2*

☐ **ERASE THE SERVICE CODES**

ERASE CODE N°3 : Composez **9** puis **0 0 3** et **A**
ERASE ALL CODES EXCEPT THE MASTER CODE : Press **9** then **2 5 5** (BEEEP) and **A**
ERASE MASTER CODE : Press **9** then **0 0 0** and **A**

• **PROGRAM ILUMINATION**

| Automatic light | **5 000 A** |
|---|---|
| Permanent light | **5 001 A** |

| | |
|---|---|
| Key ø : Codes programming | Key 6 : Door management |
| key 1 : Relay 1 tempo | Key 8 : Alarm or automation |
| key 2 : Relay 2 tempo | Key 9 : Code erasement |
| key 5 : Ilumination, access control | |

> *PRESS (P) TO EXIT PROGRAMMING*
> *THE YELLOW LIGHT GOES OFF*

## EMERGENCY PROCEDURE

**IF YOU LOSE OR FORGET YOUR MASTER CODE, THIS OPERATION ALLOWS YOU TO ENTER THE PROGRAM AND INPUT A NEW ONE :**

1) Disconnect the power supply and wait 5 seconds,
2) Put the programming bridge in the low position P,
3) Reconnect the power supply
4) Put the programming bridge in the high position **N**,
   the yellow light comes on,
5) Press key **P**, *the yellow light comes on,*
6) Press key **0** then **0 0 0** ,
7) Key in the master code you want, (1 to 8 digits)
8) Validate the operation with key **A**
9) Press key **P** to exit programming

# ❹ DIARY USE

YOUR CODE : 18126 : Press **1 8 1 2 6** and **A**
*OUTPUT 1 is activated for 6 seconds*

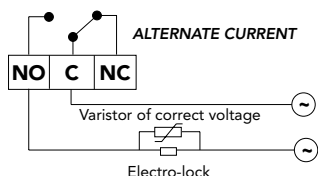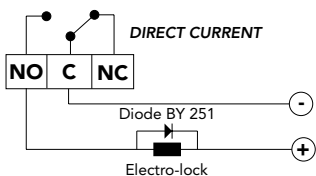YOUR CODE : 057558 : Press **0 5 7 5 5 8** and **A**
*OUTPUT 2 is deactivated when you key in your code again and validate the operation with A*

• **PUSH-BUTTON**
Pressing push-button activates relay 1. Connect the BP and C entries.

# ❺ ELECTRO-LOCK CONNECTION

To program special functions (access control, alarm and automation), first, you
EASY PROGRAMMING have to enter in the programming mode. (Refer to point 3)



# ACCESS CONTROL FUNCTIONS

**Maximum door opening time:**
If the door is still opened when the relay tempo is over, the second relay is activated.
Wire a door detector between input GT and C.
• Program your door detector input (GT)- Detection when contact is opened.
Max. 2400 seconds

**Door Break in input:** when the door is broken in, the second relay is activated.
Connect a door contact between GT and C connectors.

**Time allocation :**
When the clock closes the contact, codes from 001 to 100 are not accepted.
Wire a clock between input I and C.

**Free access with key P : (with external clock)**
When the clock closes the contact, key in P activate relay 1 (door). Wire the contact of
the clock between input I and C.

| Maximum door opening time mode (ex : 140 sec.) | **6 014 A** |
|---|---|
| Door break in mode | **6 000 A** |
| Hour control and automatic ilumination mode | **5 010 A** |
| Hour control and permanent ilumination mode | **5 011 A** |
| Free access and automatic ilumination mode | **5 000 A** |
| Free access and permanent ilumination mode | **5 001 A** |

# ❻ ALARM FUNCTIONS

> *Press **8** then **000** and **A** to cancel the modes*

**Self-protection mode :** Relay 2 activates when keypad is teared off.

**Security mode :** after 8 incorrect codes, relay 2 activates

**Twin mode :** Codes from 001 to 150 activate relay 1 (open a door) and deactivate
the relay 2 (alarm off). Once the relay 2 is off, those codes are still operating to open
but do not change the second relay status. To RE activate the relay 2, just you have
to use codes from 151 to 250.

**Accelerated mode :** To deactivate relay 2, press the 2 first digits of the codes from
151 to 250. To activate relay 2, you have to press the complete codes.

| Self-protection mode | **8 100 A** |
|---|---|
| Security mode | **8 010 A** |
| Twin mode | **8 003 A** |
| Accelerated mode | **8 004 A** |

It is possible to combine several modes regarding the needs of the installation.

| Self-protection and security mode | **8 110 A** | |
|---|---|---|
| Self-protection, security and accelerated mode | **8 114 A** | *Examples* |

**Panic code :** In the following example, OUTPUT 2 is used as a PANIC of OUTPUT 1.
The code 157558 is the panic code.

**OUTPUT 1** : code 001 … **0 5 7 5 5 8**
**OUTPUT 1** : code 002 … **1 5 7 5 5 8**
**OUTPUT 2** : code 151 … **1 5 7 5 5 8**

⚠ **THE ACCESS CONTROL AND ALARM MODES ARE NOT COMPATIBLES**

# ❼ AUTOMATION FUNCTIONS

> *Press **8** then **000** and **A** to cancel the modes*

To enter those modes, enter a user code then key in A. The yellow light flashes and the
buzzer emits a signal. To exit those modes, key in P.

**Manual mode :**
Allows to move an automation in one way when key 4 is pressed.
Pressing key 6 moves the automation in the opposite direction.

**Automatic mode :**
Allows to move an automation in one way impulsing the key 4 until
the realy tempo is over or until you key in A, O or P. Key 6 moves in the opposite
direction. Key O stops the automation. Key 4 relay 1/ key 6 relay 2/ key O stops relay.

| Manual mode | **8 001 A** |
|---|---|
| Automatic mode | **8 002 A** |