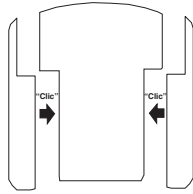## SURFACE KEYPAD

With 2 safety screws

108 x 83 x 19

INBUILT KEYPAD
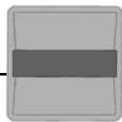
+

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

SUN-2

REMOTE ELECTRONICS SURFACE
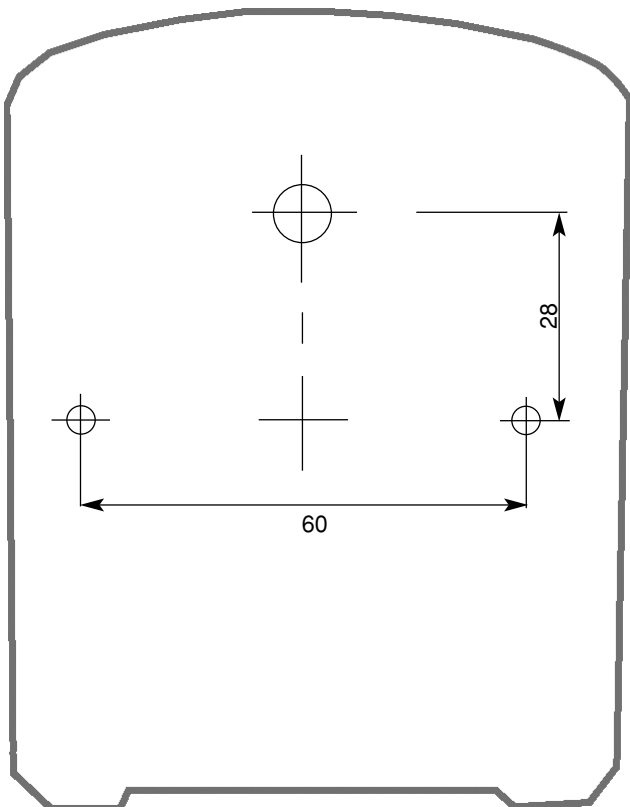
110 x 110 x 48

REMOTE ELECTRONICS INBUILT

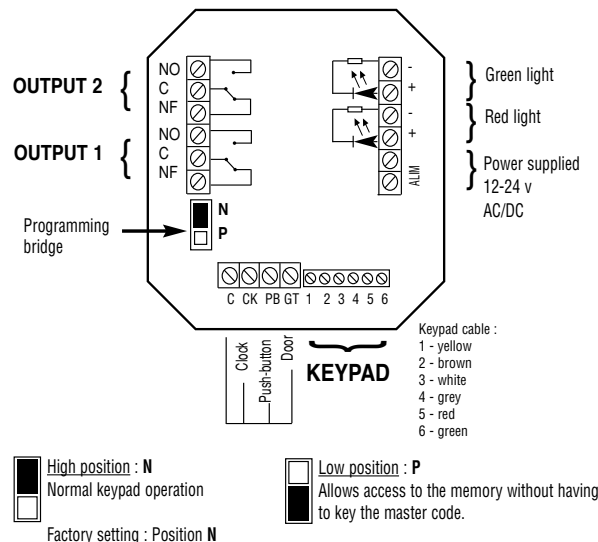**+**

102 x 102 x 5   **Between axes : 78**

28

60

TECHNICAL FEATURES

- **Automatic power voltage:** 12 to 24 V AC/DC High performance
- **Consumption:** Min. 35 mA - Max. 100 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 (output 1 at 5 A and output 2 at 1 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

CONNECTION

OUTPUT 2 { NO / C / NF

OUTPUT 1 { NO / C / NF

Green light
Red light
Power supplied
12-24 v
AC/DC

Programming bridge

N
P

C CK PB GT 1 2 3 4 5 6

Clock
Push-button
Door
KEYPAD

Keypad cable :
1 - yellow
2 - brown
3 - white
4 - grey
5 - red
6 - green

High position : **N**
Normal keypad operation

Factory setting : Position **N**

Low position : **P**
Allows access to the memory without having to key the master code.

EASY PROGRAMMING

• **PROGRAM A MASTER CODE :** The 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°1 : 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°2 : Press **0** then **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 000**

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 : Press **9** then **0 0 3** and **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 (when keys in action)	**5 000 A**
Permanent light	**5 001 A**

KEYS FUNCTIONS

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

> 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 (BEEP, BEEP, BEEP)
4) Put the programming bridge in the high position **N**, the yellow light comes on,
5) Press key **0** then **0 0 0** ,
6) Key in the master code you want, (1 to 8 digits)
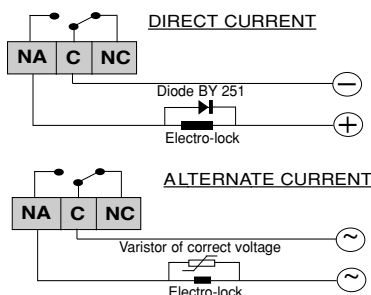7) Validate the operation with key **A**
8) Press key **P** to exit programming

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.

ELECTRO-LOCK CONNECTION

To program special functions (access control, alarm and automation), first, you 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 CK 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 CK 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**

ALARME FUNCTIONS

> Press **8** then **0 0 0** 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**

AUTOMATION FUNCTIONS

> Press **8** then **0 0 0** 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**

It is possible to combine alarm options with automation modes.

Automatic and security mode	**8 012 A**

◄ Example