



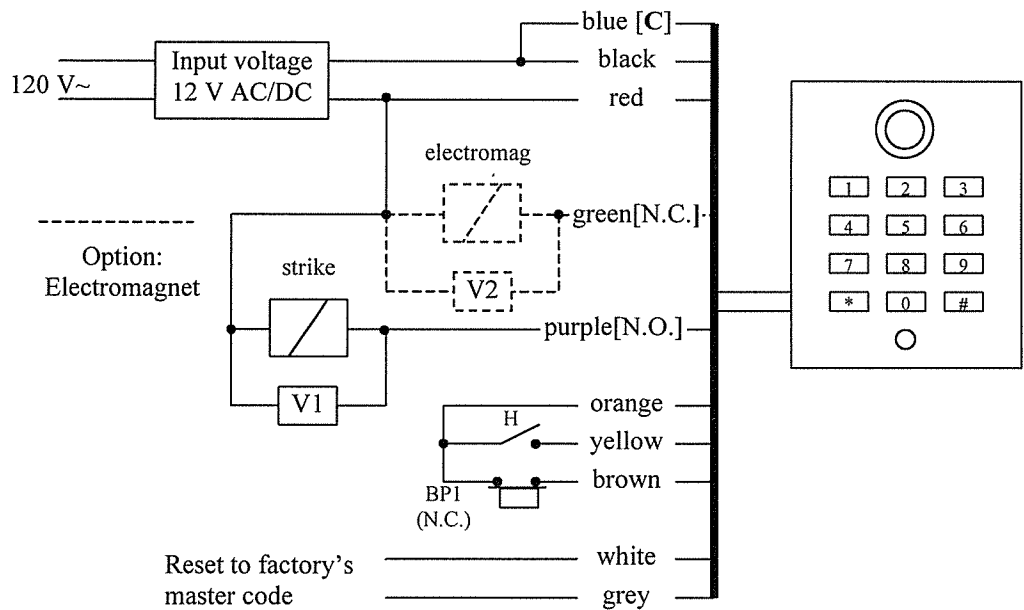
Camden Manufacturing

CM-50SS

WATERPROOF KEYPAD CODE 50 USER CODES

Wiring diagram

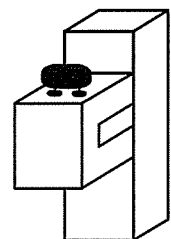
V1, V2 - varistors



Color	Wiring Code
Black	Input voltage 12 V AC or DC
Red	Input voltage 12 V AC or DC
Blue	Relay common
Green	Relay normally closed
Purple	Relay normally open
Orange	Exit and timer (H) common
Yellow	Timer contact for external push button
Brown	Exit push button (N.C. Contact)
White	Short circuit with the grey to restore the factory's master code
Grey	Short circuit with the white to restore to the factory's master code

This device comes with a varistor.
The varistor must be connected to the strike terminal (electromagnet...) operated by the device.
If this product works with many strikes, each of them should have a varistor.
The varistor controls the overload produced by the strike coil – self-effect.

If you are using a « Shear Lock » electromagnetic lock, it is recommended to use a separate power supply other than the one connected to the KCIE.



Technical specifications

Input voltage	12 V AC or DC
Output	1 relay N.O & N.C contact 6A/250V~
User codes	50 user codes programmable by keypad
Master code	5-digit master code
Exit push button	Request-to-exit push button and 1 external button (operated by the timer contact)
Keypad	12-digit keypad with built-in buzzer (audible signal)

Default values

Factory's master code:	12345
Relay time delay:	1 second in momentary output
Key-in keypad:	10 seconds
Programming delay:	120 seconds (2 minutes)

Code length

The master code and user codes must be of 5-digit code.

All the digit keys can be used to program a user code (0 to 9, *and #).

The master code can not be used as a user code.

Code 00000 is used to delete an existing user code and then can not be used as a user code.

External & Exit push buttons

The exit push button can be connected to activate the relay (the mode and the time delay can be programmed).

The timer contact enables to use the external push button:

timer contact open	- external push button disabled ,
timer contact closed	- external push button enabled.

Audible signals

1 long beep	User code accepted or validation of a data in programming mode
2 short beeps	Entering in programming mode or exit from programming mode
4 short beeps	Invalid rank number or invalid code or invalid time delay

Setting a new Master Code

1. Enter the master code twice (for the first use the factory's master code is 12345). 2 audible beeps confirm that you are in programming mode.
 2. Enter 60 (rank number for the master code) then the 5-digit new master code. An audible beep indicates the validation of the code.
 3. Press # to exit from the programming mode. 2 audible beeps confirm that you went back to Standby mode.
- 4 beeps indicate a data error.**

Set the user codes and time delay

1. Enter twice the master code (for the first use the factory's master code is 12345). 2 audible beeps confirm that you are in programming mode.
2. Enter the position code number to be programmed (from 00 to 49), then the 5-digit user code (see programming board on the next page) an audible signal indicates the validation of the code.
3. Enter 51 (rank n° for the relay time delay), then the door release time in seconds – 01 for 1 second up to 99 for 99 seconds. Enter 00 for a latched output.
4. To exit from the programming at any time press on #. 2 audible signals confirm that the keypad is now on standby.

4 beeps indicate a data error
the master code can not be used as a user code.

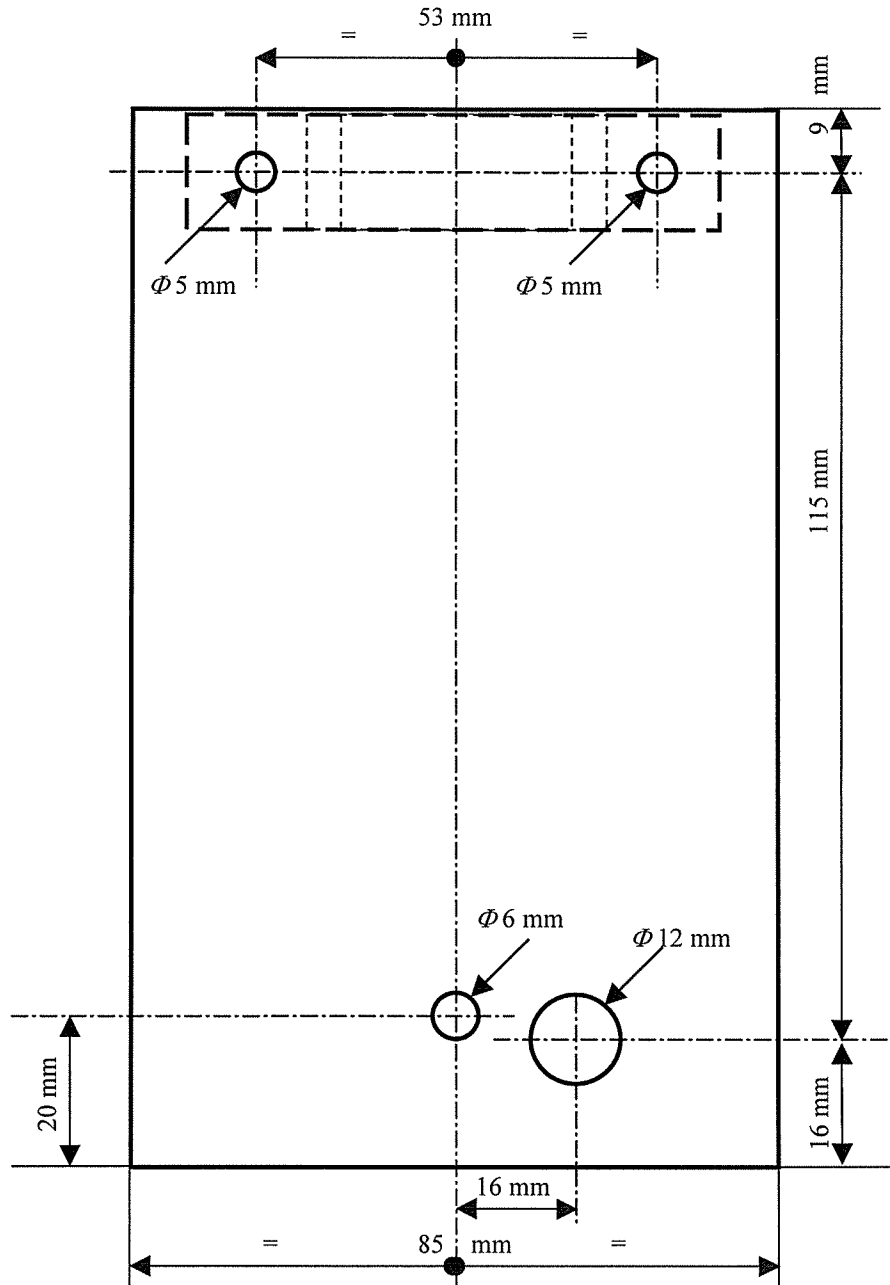
Deleting user codes

The 00000 code is reserved for the cancellation of the existing user codes and then can not be used as a user code.

Reset to the factory's master code

1. Short circuit the grey and the white wires
2. After 4 seconds the factory's master code (12345) replaces the old master code which was memorized. An audible signal confirms the replacement.
3. Separate and protect the grey and the white wires.

Template (Full size)

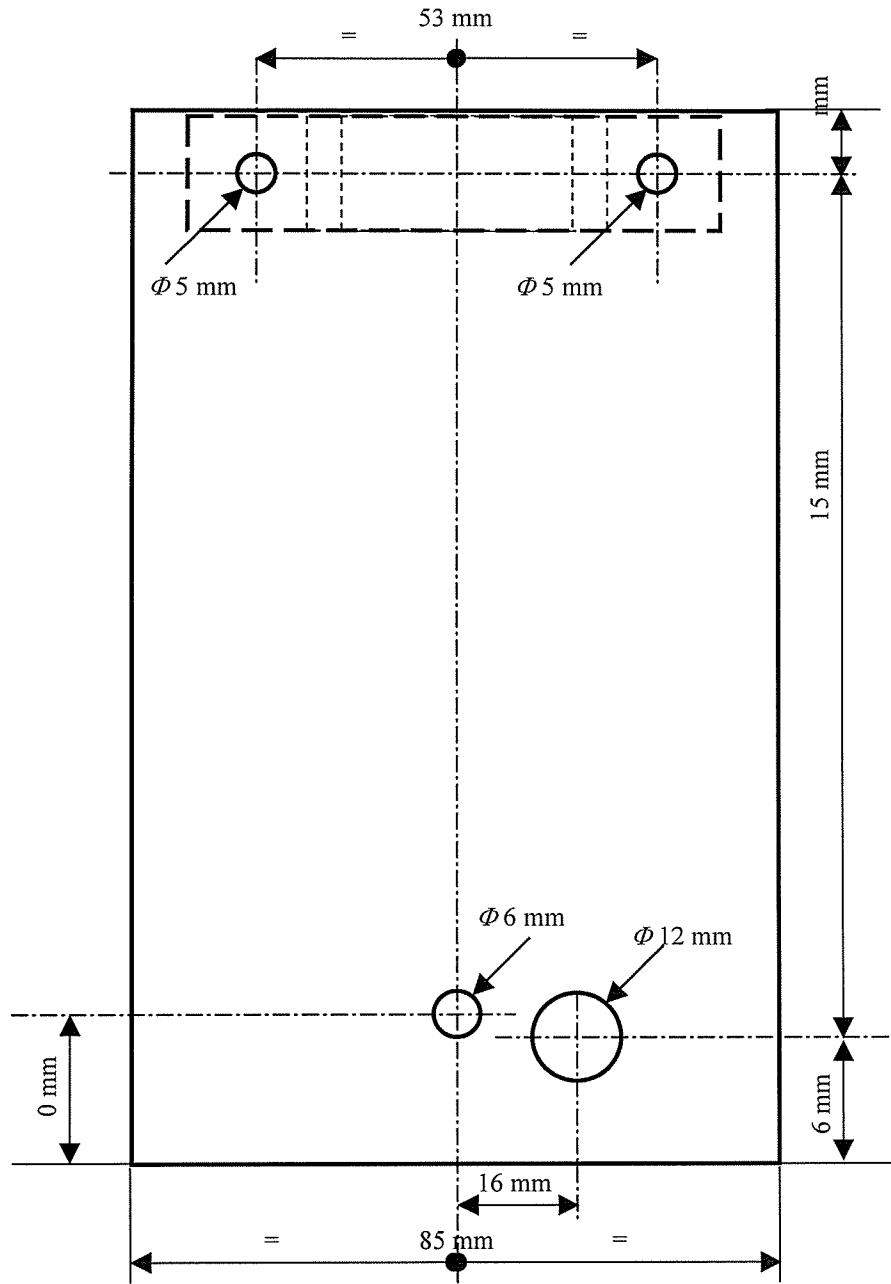


5 mm hole diameter
6 mm hole diameter
12 mm hole diameter

-To mount the hook support,
-Hole for the brass anchor,
-wiring access hole.

Filename: CM-50SS Instructions.doc
Version: 01/17/00 12:27 PM

Mounting Template

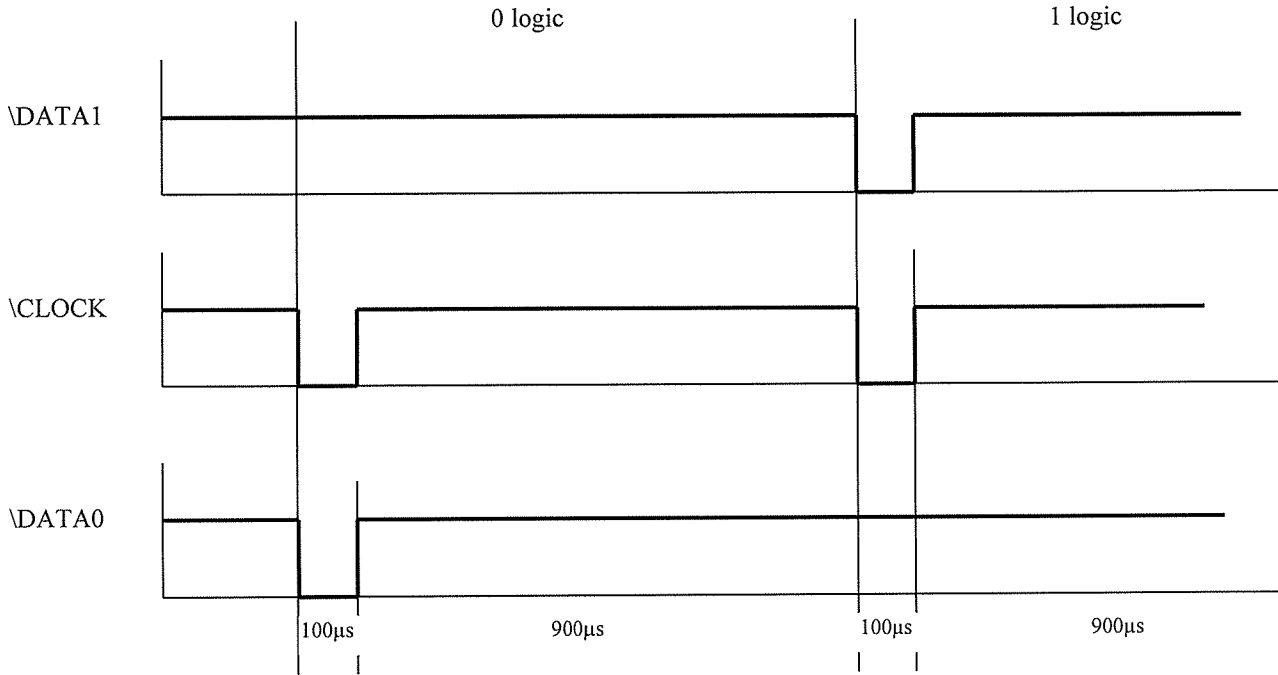


5 mm hole diameter
6 mm hole diameter
12-mm hole diameter

-To mount the hook support,
-Hole for the brass anchor,
-wiring access area.

Filename: CM-100SSW Instructions.doc
Version: 3/28/01 12:28 PM

Chronograms



Interface

The output format from the keypad is 26-bit Wiegand (Signal: DATA1, DATA0 and CLOCK)

Output signals in open mode

26 bit, hexadecimal format

The frame is made of 26 bits and built as follow:

First parity: 1 bit: even parity for the next 12 bit

PIN Code: 3 block of 1 byte representing the code entered

Second parity: 1 bit: odd parity of the previous 12 bits

Bit 1	Bit 2 ... bit 25	bit 26
Even parity on bit 2...bit13	Data (24 bit)	Odd parity on bit 14... bit 25

Example of a 4-digit PIN code: 1350 then #

1	0000	0000	0001	0011	0101	0000	1
Parity 1	0	0	1	3	5	0	Parity 2

The PIN code put in is: 001350 in hexadecimal

Example of a 5-digit PIN code: *1350 then #

1	0000	1010	0001	0011	0101	0000	1
Parity 1	0	A	1	3	5	0	Parity 2

The PIN code put in is: 0A1350 in hexadecimal

Parity 1: 0 if the number of 1 from bit 2 to bit 13 is even
1 if the number of 1 from bit 2 to bit 13 is odd

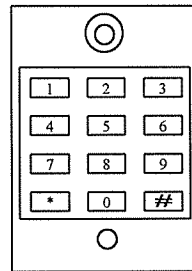
Parity 2: 0 if the number of 1 from bit 14 to bit 25 is odd
1 if the number of 1 from bit 14 to bit 25 is even

CM-100SSW

STAINLESS STEEL KEYPAD

c/w

External Push Button &
26 Bit Wiegand Output



Connection between the keypad
and a control unit
maximum **5 meters**

The keypad operates in 12 V.
Cut the wire located in the
back top of the keypad to
operate in 24V.

1. Wiring

Colour	
White	Input voltage 12 V
Grey	Input voltage 12 V
Yellow	Data 1
Orange	Clock
Green	GND
Brown	Data 0

Field selectable voltage: Cut Grey wire to operate in 24 V

Code length definition: Cut green or purple wire for 4-digit PIN code