

Radio keypad NB404

Installation & operating instructions



These instructions are to be passed on by the fitter to the user

1. Intended use

The radio keypad NB404 is an extremely secure and cutting edge radio access control module featuring 3 radio channels to operate the motorised FUHR locking systems **multitronic 881** and **autotronic 834**.

The keypad is equipped with a high-grade and wear-resistant illuminated stainless steel number pad, so that it can be used even in darkness.

Via individual opening codes the NB404 has the ability to operate 2 different doors, garage doors or sliding gates, provided these are equipped with an 868 MHz FUHR rolling-code-receiver. The device also features a non-programmable transmitter channel for an optional radio doorbell gong.

Each of the programmable opening codes activates its own individual radio transmitter code, which has to be synchronised with the associated rolling-code-receiver in the same way like a radio key.

Once they have been entered the codes remain intact, even in the event of power failure.

Motorised FUHR locking systems



The radio keypad can be used on its own or in conjunction with a choice of other FUHR access control modules, as illustrated below:



radio key
NZ80062

wall-mounted
radio transmitter
NZ80021AS

transponder
NB403

fingerprint
scanner NB366B

keypad
NB404

The radio keypad NB404 can be programmed to suit all FUHR **multitronic** 881 and **autotronic** 834 radio receivers. All radio receivers or control units with integrated radio receiver below include a master radio key.



**Frame-mounted control unit,
12mm high**
multitronic 881: NZSTP0012
autotronic 834: NZASTP0017



**Frame-mounted control unit,
4mm high**
multitronic 881: NZSTP0419
autotronic 834: NZASTP0019



**Control box with
integrated mains adapter**
multitronic 881: NZSTP0497
autotronic 834: NZASTP043



**Control unit suitable for
top rail mounting**
multitronic 881: NZSTP80069
autotronic 834: NZASTP0022



**Radio receiver,
plugs on the motor drive**
**multitronic 881 & autotronic 834:
NBFP490**

2. Scope of delivery / Accessoires

- A Radio keypad including connecting cable (800mm)
- B Cover NB405N - accessory to be ordered separately

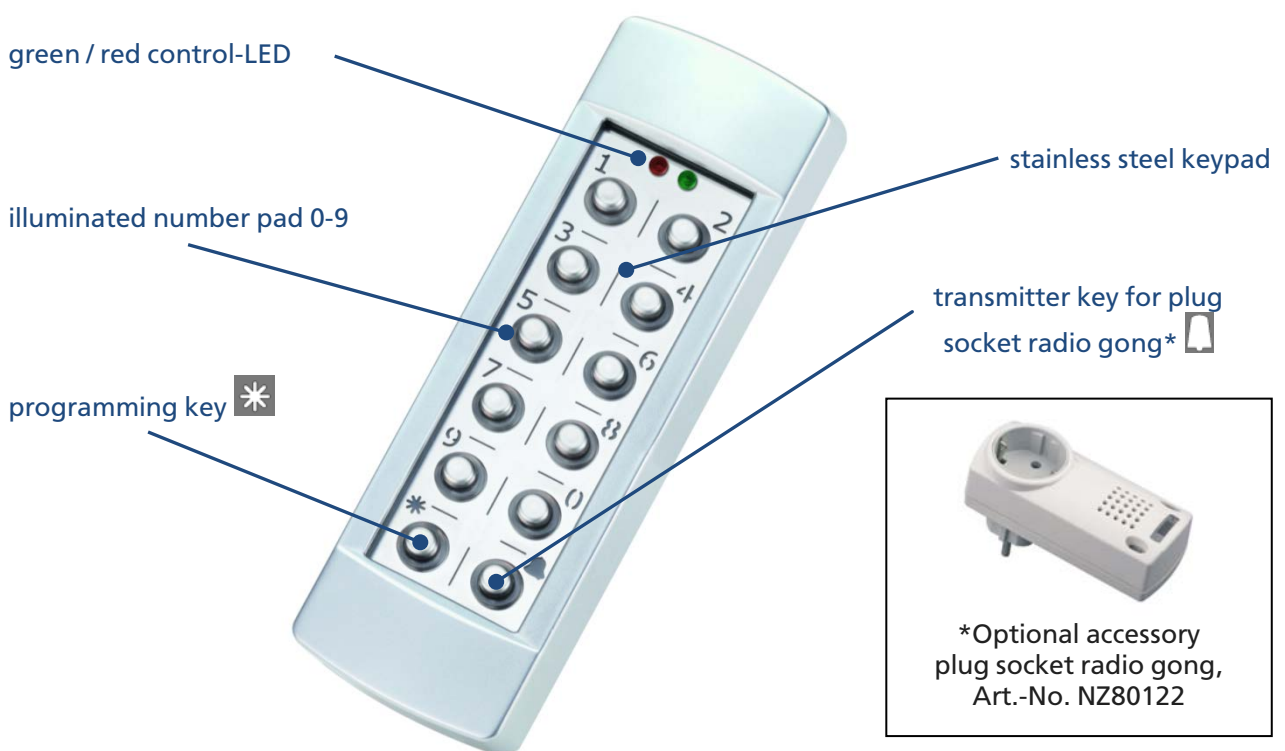


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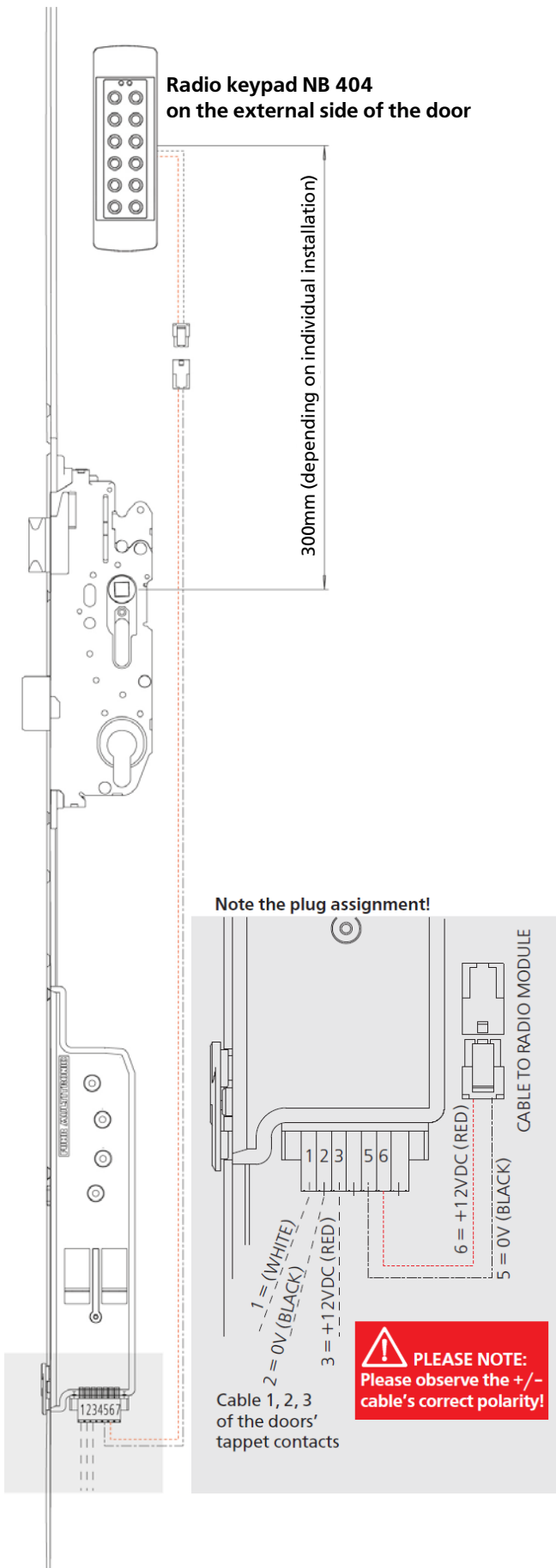


3. Guide to keys and displays

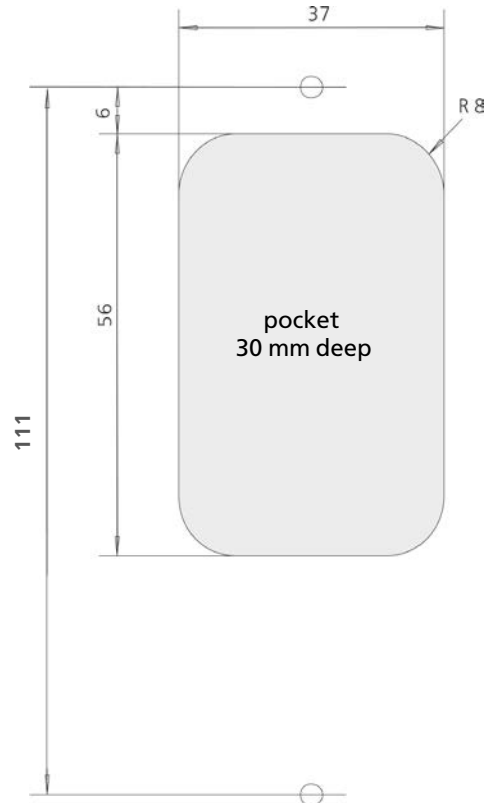
The radio keypad is equipped with a high-grade, wear-resistant stainless steel number pad and stainless steel control keys. The control keys are embedded in light conducting fibre-optics, facilitating keypad operation in dark conditions.



4.1 Terminal connection diagrams



4.2 Routing dimensions/Drilling jig



4.3 Installation of the cover

After installing and connecting the radio keypad has to be covered with the accessory item **cover NB405N**.

The cover is positioned at an angle and pulled down onto the keypad casing before the 2 enclosed M4 grub screws are fastened hand-tight using a 2mm Allen key.



5. Commissioning and programming

The radio keypad is ready for use as soon as it has been connected to the motor locks 12 V DC power supply. The following working codes have been pre-set at the factory.

Manufacturer's default setting **opening code 1** = **1 1 1 1** (programmable from 4-8 digits)
 Manufacturer's default setting **opening code 2** = **2 2 2 2** (programmable from 4-8 digits)
 Manufacturer's default setting **master code** = **9 9 9 9 9 9 9 9** (programmable to any 8 digit code)



Please note:

For safety reasons the default settings for opening and master codes ought to be re-programmed after the installation!

5.1 Input of opening code

The keypad is generally in the energy-saving mode.

Press any key once to activate the device and to switch on the keypad lighting for 10 seconds.

Now enter your opening code. Each time you press a key the green LED lights up briefly. When the correct code has been entered, the keypad automatically transmits the opening signal and a steady green LED acts as visual indicator.

While the steady green LED light is displayed (for 5 seconds) you may transmit a further opening signal by pressing any key. You can thus either stop a garage door or a sliding gate or reverse the direction of its movement without having to enter the opening code again. 5 seconds after the last key has been pressed the light stops and the radio keypad is locked once more.

Safety-lock to prevent tampering attempts

If an incorrect opening code has been entered the red LED flashes 5 times.

If an incorrect opening code is entered 5 times consecutively, the keypad is locked for 1 minute.

While the keypad is locked the red LED light is on permanently and the keypad cannot be used. The keypad can only be used again after the red LED stops when the locking period has expired. Now you have another opportunity to transmit an opening signal by entering the correct code.






If an incorrect opening code is entered 5 times once again, the locking time extends to initially 5 minutes, then 10 and eventually 15 minutes.

5.2 Programming a new 8-digit master code

Press any key once to activate the device and to switch on the keypad lighting for 10 seconds. Then start the following programming procedure.



The time between the individual programming steps may not exceed 5 seconds, otherwise the programming procedure is aborted.

1. Press programming key  → green LED flashes slowly
2. Enter master code (see default setting)
3. Press programming key  → green LED flashes slightly faster
4. Press programming key once more  → green LED flashes very quickly
5. Enter new 8-digit master code
6. Press programming key  → green and red LEDs are flashing
7. Repeat input of new master code
8. Press programming key  → green and red LEDs stop flashing

The new master code has now been programmed successfully!






Please take a note of the new master code and store it securely, protected against third party access. The keypad cannot be re-programmed if the master code is lost!

5.3 Programming a new opening code (4-8-digit)

Press any key once to activate the device and to switch on the keypad lighting for 10 seconds. Then start the following programming procedure.



The time between the individual programming steps may not exceed 5 seconds, otherwise the programming procedure is aborted.

1. Press programming key  → green LED flashes slowly
2. Enter master code
3. Press programming key  → green LED flashes slightly faster
4. Enter new 4-8-digit opening code
+ additional ... press key „1“ to allocate the code to the opening channel 1, or alternatively
... press key „2“ to allocate the code to the opening channel 2
5. Press programming key  → green LED stops flashing

The new opening code has now been programmed successfully to the relevant opening channel. A different code has to be programmed for the other opening channel.

5.4 Example for programming an opening code

Example 1 / Opening channel 1 for the main entrance door

If you have for example chosen opening code **1 2 3 4 5** for opening channel **1**, you must first enter opening code **1 2 3 4 5** as described in the programming sequence the previous chapter and then press key **1** as additional number. This means you press the following sequence of numbers **1 2 3 4 5 1** to programme the keypad.

When the code **1 2 3 4 5** is then entered, the radio keypad automatically transmits the opening signal to the control box on the main entrance door via opening channel **1**.

Example 2 / Opening channel 2 for the garage door

If you have for example chosen opening code **9 8 7 6 5** for opening channel **2**, you must first enter opening code **9 8 7 6 5** as described in the programming sequence the previous chapter and then press key **2** as additional number. This means you press the following sequence of numbers **9 8 7 6 5 2** to programme the keypad.

When the code **9 8 7 6 5** is then entered, the radio keypad automatically transmits the opening signal to the control box on the garage door drive unit via opening channel **2**.

5.5 Programming the radio keypad to operate a FUHR radio receiver

To enable the radio keypad to open a FUHR motorised lock, it has to be paired with a 881-/834 control unit or the plug-in radio receiver NBFP490 prior to initial use, just like the radio key. For the programming / pairing instructions please refer to the relevant operating instructions for these items.

Example: Pairing the radio keypad with radio receiver NBFP490

1. Tap the LED programming switch on the radio receiver **briefly (<1 second)**.
 - LED programming switch flashes slowly.
2. Within 20 seconds activate the red transmitter button on the **master key once**.
 - If the radio receiver has accepted the master key, the LED programming switch on the radio receiver lights up for approx. 2 seconds and then continues to flash slowly.
3. Activate the radio keypad by pressing any key. Now enter the opening code for either channel 1 or channel 2 within 20 seconds. The LED on the radio keypad lights up green. Wait 2-3 seconds and press any key on the radio keypad's number pad to transmit a second radio signal.
 - If the radio receiver has received the opening radio signal, the LED programming switch on the radio receiver lights up for 4 seconds and then stops automatically.
 - Now the radio keypad can be used to open the door



In case the 20 seconds are exceeded or an incorrect master key is used the pairing / programming procedure is aborted.