# KEYLESS BLOCK

OPERATING MANUAL

AUTHOR ALARM

**Dear car owner!**

Please note that the AUTHOR Alarm's anti-theft devices are not intended for self-installation.

We strongly recommend to install and configure the purchased equipment only in certified installation centers.

This operating manual is for the following versions of the module:

- KEYLESS BLOCK
- KEYLESS BLOCK +
- KEYLESS BLOCK PRO
- KEYLESS BLOCK PRO +

version 810.1
nRF52

**TABLE OF CONTENTS**

General information ..... 4
How it works? ..... 4
Versions of the set ..... 4

**MODULE INSTALLATION AND CONNECTION**
KEYLESS BLOCK / KEYLESS BLOCK + ..... 5
KEYLESS BLOCK PRO / KEYLESS BLOCK PRO + ..... 6

**AUTHORIZATION IN THE SYSTEM**
Authorization via signal from the key fob/smartphone .. 8
Authorization via external input ..... 8

**MODULE SETTINGS AND MANAGEMENT**
Authorization in Author Config app ..... 10
Display of key fobs and smartphones ..... 12
Detection range of key fobs and smartphones ..... 14
Features of Author Config app ..... 16
Service mode ..... 18
Information about key fobs battery charge level ..... 19
Log out from application ..... 19

**CONNECTION & DELETING OF KEY FOBS & SMARTPHONES**
Deleting of key fobs ..... 20
Connection of key fobs ..... 21
Key fob second time connection ..... 22
Use your smartphone as a key fob ..... 23

**REFERENCE INFORMATION ..... 27**
KEYLESS BLOCK options setting ..... 27
Authorization mode selection ..... 28
Inversion of signal output ..... 30
Firmware change mode ..... 30

**ANNEX ..... 32**

**General information**

One of the common ways to steal a car with keyless access is the so called extension of the standard key by retransmitting the signal.

The KEYLESS BLOCK enables the protection of a car with keyless system from retransmission of a signal by switching OFF this function when the car-owner is not around.

**How it works?**

KEYLESS BLOCK communicates with the standard keyless module via CAN-bus switching off the keyless system on program level when the central lock is locked. When the central lock is unlocked with a key fob (or with a touch of the handle on the driver's door - for the cars with the smart access systems), the keyless function is activated and the keyless access is possible again.

**Versions of the set**

KEYLESS BLOCK have following versions of the set:

- KEYLESS BLOCK
- KEYLESS BLOCK +

Modules with the connection to CAN/LIN-buses

- KEYLESS BLOCK PRO
- KEYLESS BLOCK PRO +

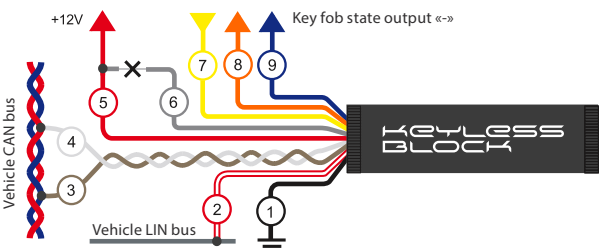
Modules with the connection to 2CAN-bus

«+» versions have key fobs in the set

## MODULE INSTALLATION AND CONNECTION

**ATTENTION!** It is recommended to install the module so that there are no obstacles such as metal sections of the car (best places are under the dashboard, near the pillar etc.) The close the module is to the level of the mirrors, the better the signal will be.

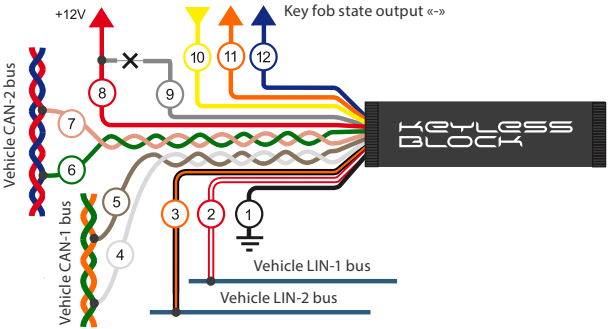
## KEYLESS BLOCK / KEYLESS BLOCK +




**1. Black.** Power supply «-» (ground/earth).
**2. White-Red.** LIN*.
**3. White.** CAN-L.
**4. Brown.** CAN-H.
**5. Red.** Power supply «+» (12 V).
**6. Grey.** For software update mode.
**7. Yellow.** Additional input «+».
**8. Orange.** Additional output «-».
**9. Blue.** Key fob state output (0.25 A max).
Power supply «-» when the key fob signal is detected.

* For some BMW, Land Rover, Mazda cars (see Annex).

## KEYLESS BLOCK PRO / KEYLESS BLOCK PRO +




**1. Black.** Power supply «-» (ground/earth).
**2. White-Red.** LIN-1.
**3. Orange-Black.** LIN-2.
**4. White.** CAN1-L.
**5. Brown.** CAN1-H.
**6. Green.** CAN2-L.
**7. Pink.** CAN2-H.
**8. Red.** Power supply «+» (12 V).
**9. Grey.** For software update mode.
**10. Yellow.** Additional input «+».
**11. Orange.** Additional output «-».
**12. Blue.** Key fob state output (0.25 A max).
Power supply «-» when the key fob signal is detected.

It is recommended to check the operation of the system after the module has been installed (before the final assembly). In order to do that activate the standard security with Keyless option, switch off the key fobs (take out the batteries) and in 15 seconds make sure that the keyless system is locked (the door does not open).

## AUTHORIZATION IN THE SYSTEM

### Authorization via signal from the key fob/smartphone

In order to authorize in the system it is enough to have the key fob or smartphone (with Bluetooth and Author ID app switched on) that is registered in the system. When the car-owner with the key fob/smartphone leaves the detection zone, the standard keyless system is locked, and when the car-owner brings back the key fob/smartphone the system is unlocked and the keyless access is restored. The detection zone for KEYLESS BLOCK depends on the settings of the key fob and smartphone range (p.14-16).

**ATTENTION!** For better performance during the authorization in the KEYLESS BLOCK system it is NOT recommended to carry the key fob in the rear pocket of your trousers, in the purse or at the bottom of your bag. Optimal location is in the breast pocket of the overclothes.

### Authorization via external input

The unique benefit of KEYLESS BLOCK module that it can be used together with the anti-theft systems of different manufactures. When the security is activated it automatically locks the keyless system and when the security system is deactivated it restores keyless access to the car.

Signal of the external device state is transferred to the yellow wire of KEYLESS BLOCK (see the connection

pattern 5-7). If the potential positive «+» the module security is deactivated (authorization occur) and when the signal is lost the security is activated. If the signal comes as a short impulse, the KEYLESS BLOCK is deactivated for 3 seconds and when again the security system is activated locking the keyless access to the car.

In order to switch on the option for authorization via external input follow this procedure:

1. Switch on the ignition without starting the engine.
2. Press the accelerator pedal* as far as it can go 11 times. (you should make first press on accelerator not later than in 10 sec. after ignition is ON).
3. Release the accelerator pedal. You will see 11 indication signals if the authorization via external input was switched ON successfully.

You can switch OFF this option by selecting of any other authorization mode:

- Multi-authorization
- Authorization via Key fob
- Authorization via standard car key.

## MODULE SETTINGS AND MANAGEMENT

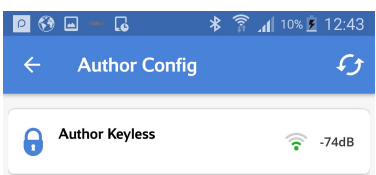
### Authorization in Author Config app

For settings change in the KEYLESS BLOCK module the mobile app **Author Config** for Android (4.3 and higher) is used. Click on the link to download the app:

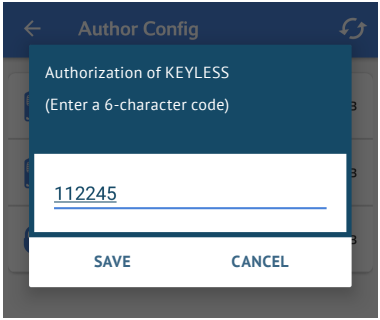
https://play.google.com/store/apps/details?id=com.dma.author.authorconfig

In order to get the access to the system setting follow the next steps:

1. Switch on Bluetooth in your smartphone.
2. Run the Author Config app.
3. Wait till you see the device on the screen. At least one active key fob and the KEYLESS BLOCK module shall be within the Bluetooth range.




4. Enter the device menu selecting it on the screen. The app will ask you to authorize in the system.




5. Enter 6-digit secret code specified on the first page of the present manual and press Save.

**ATTENTION!** Any changes of system setting shall be made only when the security system is deactivated (when the key fob or smartphone is on and is within the KEYLESS BLOCK detection zone).

**ATTENTION!** Some smartphones support work only with one Bluetooth device at a time.

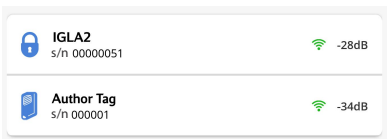
If there is Bluetooth connection with the car multimedia system in your smartphone by default, make sure Author Config app can be started and it can connect to KEYLESS BLOCK. Otherwise it is necessary to break the link between the smartphone and multimedia system (cancel the automatic connection to the system in the settings of the smartphone).

**Display of key fobs and smartphones**

The key fobs and smartphones registered in the system are displayed on your smartphone screen according to their status:

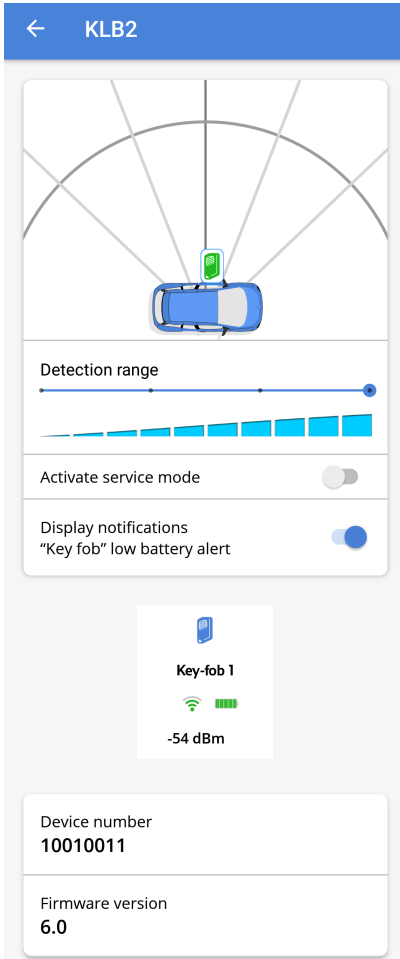
- green - within the detection zone
- red - outside the detection zone
- grey - not active

Only **one** key fob (smartphone) is displayed in green - the one that was used for the authorization. In order to display a particular key fob/smartphone all other key fobs/smartphones shall be switched off. If the authorization is not complete, all registered key fobs and smartphones will be listed.




**ATTENTION!** The signal level displayed in front of each key fob (smartphone) can change from time to time depending on the radio channel.

**ATTENTION!** The successful authorization is memorized by the KEYLESS BLOCK module when Author Config app is launched in your smartphone. It allows to change the system settings even when the key fobs or the smartphones (used as key fobs) are no longer within the detection zone.


KLB2
Detection range
Activate service mode
Display notifications
“Key fob” low battery alert
Key-fob 1
-54 dBm
Device number
10010011
Firmware version
6.0

**Setting of detection range for key fobs and smartphones**

KEYLESS BLOCK allows to set the distance on which the key fob or smartphone will be detected and the keyless system will be activated.

**ATTENTION!** While setting the detection range the smartphone used for it shall be within the detection zone of the KEYLESS BLOCK module.

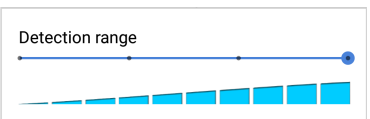
The distance is set for all key fobs and smartphones (with Author ID installed) no matter if they are within the detection zone of KEYLESS BLOCK or not.

**ATTENTION!** Settings of the system in Author Config app is possible even of the key fobs/smartphones became inactive (grey) after the authorization or are outside the detection zone (red).

**1. Authorization via key fob**

If the authorization was via key fob, use **Author Config** app to set the detection range for key fobs and smartphones.

Move the slider to set the distance on the scale «Detection range». The chosen value will be set for all registered key fobs and smartphones and is saved automatically.

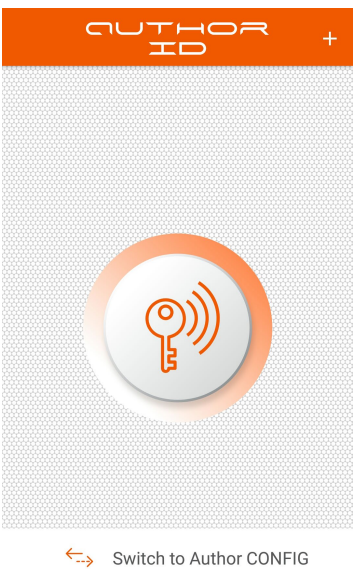


## 2. Authorization via smartphone

If the authorization was via smartphone, do the following to set the detection range for key fobs and smartphones:

1. Log into **Author ID** app for Android (5.0 and higher). Press «Key» button in the middle of the screen. The lighting shall change from Grey to Orange. Go to Author Config app by pressing the button in the lower part of the screen.*

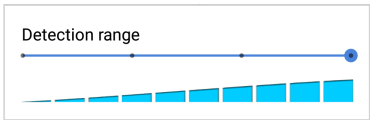
https://play.google.com/store/apps/details?id=com.dma.author.authorid




* While setting the detection range for smartphone used as a key fob Author ID and Author Config must be switched on.

2. Set the distance in **Author Config** app.

Move the slider to set the distance on the scale «Detection range». The chosen value will be set for all registered key fobs and smartphones and is saved automatically.




**Features of Author Config app**

**ATTENTION!** Note that the information about the change of distance and the current radius value is not displayed in Author Config immediately. If you have moved away from the car, wait till the information on the screen will be updated.

**ATTENTION!** Be careful to set the distance for smartphones at minimum! It can lead to the situation when in order to return to the previous settings it will be necessary to locate the key fob/smartphone very close to the device (for authorization).

Below you will find issues that can arise while using Author Config app and the solutions.

1. **To have the device displayed** in Author Config app it is necessary to:

- launch the Author ID app and press the «Key» button on the screen;
- wait for 5 seconds;

- return to Author Config app and select the device that is now in the list;
- wait till the connection is established and all details are displayed on the screen.

2. **If you logged out** of Author Config app you have 10 seconds when you can return without authorization. Wait till the message «Device is switched off» is displayed, find the device in the list of the linked devices and select it again. Wait till the connection is established and all details are displayed on the screen.

3. **If it is necessary to start** Author Config again after the settings were changed do the following steps:

- press the button «ReConnect Author ID» in the low right corner of the Author Config app;
- go to Author ID app;
- press the «Key» button in the center of the screen, if the button was not active (grey). If the button was active (orange), press it, wait for 6 seconds and press it again to switch on;
- return to Author Config app within 40 seconds and selectthe device that is now in the list;
- wait till the connection is established and all details are displayed on the screen.

4. **If the reconnection failed** exit Author Config app (close it), start it again and repeat steps described in the item 3.

5. If the for authorization and for settings of the detection range the same types of key fobs were used (only smartphones or key fobs), it is recommended to restart the Author Config app to view the key fobs of other types. Otherwise the key fobs will not be displayed.

**Service mode**

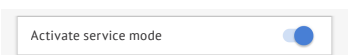
The service mode is used for a temporary deactivation of the anti-theft module when you give your car for the maintenance (without saying about the device).

For Japanese cars (Toyota, Lexus, Nissan, Infiniti) the state of keyless system in the service mode depends on whether the key fob is within the detection zone of the KEYLESS BLOCK module:

- Security activated – if the key fob was not detected when the service mode was switched on.
- Security deactivated – if the key fob was detected when the service mode was switched on.

For other car brands (Mercedes-Benz etc.) when you switch on the service mode the keyless system always remains in «security deactivated» state.

In order to switch on or switch off the service mode use the switch «Activate service mode».




The service mode can be deactivated only when there is at least one key fob or smartphone within the KEYLESS BLOCK detection zone.

**ATTENTION!** If you do not have with you smartphone with Author Config app installed you can also switch ON/OFF service mode manually as described below.

1. Switch on the ignition without starting the engine.
2. Press the accelerator pedal as far as it can go 5 times to switch service mode ON or 4 times to switch it

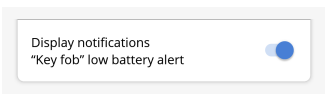
OFF. (you should make first press on accelerator not later than in 10 sec. after ignition is ON).

3. Release the accelerator pedal. The successful switch ON/OFF will be confirmed with corresponding number of indication signals (5 or 4 flashes).

**Information about key fobs battery charge level**

If the key fob battery charge is less than 7%, the standard indication will blink 3 times.

Notification of the battery charge level are active by default. In order to switch off the notification use the slide-switch «Display notifications «Key fob» low battery alert».




**Log out from application**

After you finished working with Author Config app it is recommended to correctly log out from application:

- close the Author Config app;
- go to Author ID app;
- press the «Key» button in the center of the screen (orange lighting shall be changed to grey);
- close the Author ID app.

Otherwise when you switch on Bluetooth next time the Author ID app will be activated automatically.

## CONNECTION AND DELETING OF KEY FOBS AND SMARTPHONES

### Deleting of key fobs

If you lost key fob erase it from the device memory to prevent the car theft.

**ATTENTION!** If all key fobs were lost, it is necessary to switch the keyless system to the security mode that uses standard car key.

**ATTENTION!** During this procedure all of the saved key fobs and smartphones will be erased from the memory.

Follow the next steps for the key fobs:

1. Take out the batteries from all key fobs including those connected to the system.
2. Switch on the ignition without starting the engine.
3. Press the accelerator pedal as far as it can go 14 times.
4. Release the accelerator pedal.

If the key fobs are successfully deleted, it will be confirmed by 14 flashes of indication signals. All key fobs saved in memory of the KEYLESS BLOCK module will be deleted. The system will be in the security mode.

**ATTENTION!** If the key fobs were lost in the service mode, in order to switch the KEYLESS BLOCK module into operation via standard car key press the accelerator pedal 8 times (the ignition shall be switched on; according to the table of options setting on p.26).

**Connection of key fobs**

**ATTENTION!** This method key fobs connection is suitable only for the key fobs that are part of one set and they are in recording mode and were not used before! In order to connect the previously connected key fobs, use the rewriting method specified on p. 22.

**ATTENTION!** Do not use the key fobs from another KEYLESS BLOCK set.

In order to add a new key fob do the following:

1. Make sure the key fob can be used for connection with the device:
   - insert the battery in the key fob;
   - make sure the LED is flashing with green. Single LED indication means that the key fob has already been used in the system and in order to connect it once again it is necessary to reconnect it (see p.22).
2. Take out the batteries from all key fobs including those connected to the system.
3. Delete all key fobs saved in memory (see section «Deleting of key fobs», p.20).
4. Turn off the ignition.
5. Switch on key fob connection mode:
   - Switch on the ignition without starting the engine.
   - Press the accelerator pedal as far as it can go 9 times.
   - Release an accelerator (the successful switch to key fob connection mode is confirmed with 9 indication signals).

6. Insert the battery into the **first key fob** within 10 seconds after switch on key fob connection mode. Instead LED blinking there will be long red signal or simply no signal (depending on the software version) as a confirmation of the key fob connection.
7. Insert the battery into the **second key fob** within 10 seconds after switch on key fob connection mode. Instead LED blinking there will be long red signal or simply no signal (depending on the software version) as a confirmation of the key fob connection.
8. Disconnect the power supply from KEYLESS BLOCK (disconnect the red wire) and connect power supply again.

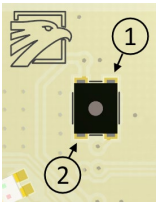
**Key fob second time connection**

**ATTENTION!** The key fob deleting procedure is described on p. 20.

In order to add the key fob that was previously used in the system do the following:

1. Take out the batteries from all key fobs including those connected to the system and log out from Author ID app on all smartphones.
2. Switch on key fob connection mode:
    - Switch on the ignition without starting the engine.
    - Press the accelerator pedal as far as it can go 9 times.
    - Release an accelerator (the successful switch to key fob connection mode is confirmed with 9 indication signals).

3. Connect the key fob contacts with a piece of wire as shown on the right drawing and insert the battery. The LED indication will start flashing green every second and when the key fob is connected it will flash red just once.




**Use your smartphone as a key fob**

It is possible to use smartphone as a key fob for authorization. In order to do that the car-owner must have smartphone connected to the system and application running in the background mode (even when your smartphone screen is off).

KEYLESS BLOCK supports connection of two smartphones that can be used as a key fob (only for smartphones with Bluetooth 4.0+ (LE).

| iOS | Android |
|---|---|
| Smartphones with iOS 8.0 and higher | Smartphones with:<br>• Android 5.0 and higher<br>• Bluetooth 4.0+ (LE) |

For authorization via smartphone download and install **Author ID** app via links bellow (or scan QR-code):

Download on the App Store

GET IT ON Google Play

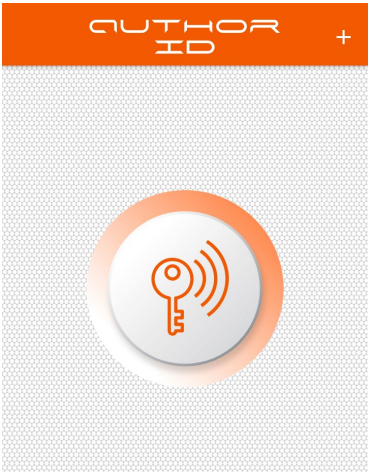
https://itunes.apple.com/ru/app/author-id/id1144594689?mt=8
https://play.google.com/store/apps/details?id=com.dma.author.authorid

**ATTENTION!** Only two smartphones can be used as key fobs. During connection procedure only one smartphone can be added at a time!

In order to connect your smartphone to the system it is necessary to do the following:

**ATTENTION!** During the procedure of smartphones connection standard key fobs must be switched off. It is also necessary to switch off all Bluetooth connections that can intervene the connection.

1. Switch on Bluetooth in your smartphone.
2. Start **Author ID** app.
3. Start the smartphone connection mode:
   - Switch on the ignition without starting the engine.
   - Press the accelerator pedal as far as it can go 10 times.
   - Release the accelerator pedal.
   - Wait for the 10 indication signals.
4. Press «+» button to add a new device.
5. In a pop-up window enter the code specified on the first page of this operating manual. After that your smartphone will be connected to the KEYLESS BLOCK system.
6. Press the «Key» button in the center of the screen in order to activate the key fob mode (the button lightning will change from grey to orange color).




Now your smartphone will function as a key fob, connecting to the KEYLESS BLOCK system via the encrypted channel.

**ATTENTION!** Smartphone functioning as a key fob only when Bluetooth is on and Author ID app is running.

The key fob is activated at distance from 0,5 to 10 meters depending on the installation place of KEYLESS BLOCK system.

If the connection of smartphone to KEYLESS BLOCK was not successful, repeat steps 1-4 (to delete all previously connected key fobs the accelerator must be pressed 15 times), and delete the link between the devices in your smartphone: Settings -Bluetooth - Devices - KEYLESS BLOCK - Delete connection (pairing).

**ATTENTION!** In case the smartphone is lost for security reasons delete it from the memory of the KEYLESS BLOCK system. In order to do that repeat steps 1-4 (the accelerator must be pressed 15 times).

When the smartphone is deleted, the signal will give two double signals.

It is recommended to do this right after the smartphone is lost.

## REFERENCE INFORMATION

### KEYLESS BLOCK options setting

The state of options installed in the system by default («Switch ON», «Switch OFF») is marked with grey in the table. The figures in the table show how many times the service button must be pressed to choose the particular option state.

| Option | Switch ON | Switch OFF |
|---|---|---|
| Service mode | 5 | 4 |
| Multi-authorization[1)] | 6 | 7 or 8 |
| Authorization via key fob[1)] | 7 | 8 |
| Key fob connection | 9 | - |
| Smartphone connection | 10 | - |
| Authorization via external input[2)] | 11 | 6, 7 or 8 |
| Inversion of signal output[3)] | 12 | 13 |
| Key fobs deleting[4)] | 14 | - |
| Smartphones deleting | 15 | - |
| Firmware change mode | 20 | - |

[1)] See instructions on page 28.

[2)] The option is switched off by selecting the authorization mode: multi-authorization (press 6 times), authorization via key fob (press 7 times) or via standard car key (press 8 times).

[3)] See instructions on page 30.

[4)] All previously connected key fobs, no matter if they are present in the KEYLESS BLOCK detection zone, will be deleted.

**ATTENTION!** Any changes of the system setting shall be made only when the security system is deactivated (the key fob or smartphone is on and is within KEYLESS BLOCK detection zone).

In order to change the option state do the following:

1. Switch on the ignition without starting the engine.
2. Press the accelerator pedal the number of times needed to reach the particular state – «Switch ON» or «Switch OFF» (see the figures in the corresponding column in the table). For example, press 5 times to switch the service mode or 4 times to switch it off. Press for the first time not later than in 10 seconds after the ignition switch on.
3. Release the accelerator pedal. The successful change of an option state will be confirmed with indication signals given as many times as the accelerator was pressed.

**Authorization mode selection**

**1. Multi-authorization**

This mode allows to authorize in to the system with any registered key fob, smartphone and standard car key. To switch on this mode press gas pedal 6 times as described on page 27-28.

Multi-authorization mode can be switched OFF by selecting any different authorization method:

- 7 presses of gas pedal – authorization only via key fob;
- 8 presses of gas pedal – authorization only via standard car key.

**2. Authorization via key fob**

In order to authorize in the system it is enough to have with you the key fob or smartphone paired to the system. To switch on this mode press gas pedal 7 times as described on page 27-28.

This mode can be switched OFF by selecting any different authorization method:

- 6 presses of gas pedal – Multi-authorization;
- 8 presses of gas pedal – authorization only via standard car key.

**ATTENTION!** If you switch ON this mode for KEYLESS BLOCK system that do not have key fobs included in the set, the device will stop working (if it was not paired with at least one smartphone with application installed)!

**3. Authorization via standard car key**

In this mode the security will be activated via standard Keyless system of your car. In order to deactivate car security use standard car key (after that the START-STOP button in your car will be active again). To switch on this mode press gas pedal 8 times as described on page 27-28.

After selecting this method of authorization, the system automatically activates the car security. Security disarming will be possible only with the standard car key.

This mode can be switched OFF by selecting any different authorization method.

**Inversion of signal output**

This option can change the logic of signal output on BLUE wire in KEYLESS SYSTEM in joint work with other additional devices. It can change the signal output on BLUE wire when the Key fob or smartphone within the detection zone. The negative output signal «-» on BLUE wire can appear/disappear when you approach to the car or go away (depends on system settings). This option can be used for switching ON/OFF additional devices such as: GSM-modules, search beacons, additional locking relays and etc.

For this option settings change use the procedure described on page 27-28:

- 12 presses of gas pedal – negative output signal «-» on BLUE wire **appear** when the car security system is activated;
- 13 presses of gas pedal – negative output signal «-» on BLUE wire **disappear** when the car security system is activated and will appear again when car security system is deactivated.

**Firmware change mode**

You can update the firmware in KEYLESS BLOCK module if needed even without dismantling the device from the vehicle.

To update the STM firmware download it from our service site and use the Author Flasher application which can be downloaded via this link: *http://service.author-alarm.com*.

1. Enter firmware change mode: Switch on the ignition without starting the engine and press the accelerator pedal as far as it can go 20 times to switch ON firmware change mode as described on page 27-28.
2. Insert the USB dongle Bled112 into your computer and run Author Flasher version 2.16 (or higher).
3. Flash the new firmware into your device.
4. Reset the power on the device (disconnect the RED wire and connect it again).

## ANNEX KEYLESS BLOCK / KEYLESS BLOCK +

### BMW

**Indication:** Turn signal indicator light on car dashboard.
**Programming button:** The accelerator pedal pressed as far as it can go.

It is necessary to have connection to LIN-bus for all models (see p.5).

| Edition | Model | Years | CAN bus |
|---|---|---|---|
| 1 | F20 | 2016-2017 | Engine CAN |
| 3 | F30 | 2016-2017 | Engine CAN |
| 5 | F10 | 2016-2017 | Engine CAN |
| 7 | F01 | 2015-2015 | Engine CAN |
| X3 | F25 | 2016-2017 | Engine CAN |
| X4 | F26 | 2016-2017 | Engine CAN |
| X5 | F15 | 2016-2017 | Engine CAN |
| X6 | F16 | 2016-2017 | Engine CAN |

### FORD

**Indication:** Turn signal indicator light on car dashboard.
**Programming button:** The accelerator pedal pressed as far as it can go.

Ford Kuga 2012-2017 AT, engine CAN.

### INFINITI

**Indication:** Turn signal indicator light on car dashboard.
**Programming button:** The accelerator pedal pressed as far as it can go.

| Model | Years | CAN bus |
|---|---|---|
| Q50 | 2014-2016 | Engine CAN |
| Q70 | 2014-2016 | Engine CAN |
| QX50 | 2014-2016 | Engine CAN |
| QX60 | 2014-2016 | Engine CAN |
| QX70 | 2014-2016 | Engine CAN |
| QX80 | 2014-2016 | Engine CAN |

## LAND ROVER

**Indication:** Turn signal indicator light on car dashboard.
**Programming button:** The accelerator pedal pressed as far as it can go.

| Edition | Model | Years | CAN bus |
|---|---|---|---|
| L462 | DISCOVERY 5* | 2017-2017 | Engine CAN |
| L550 | DISCOVERY SPORT | 2014-2016 | Engine CAN |
| L405 | RANGE ROVER | 2014-2016 | Engine CAN |
| L538 | RANGE ROVER EVOQUE | 2014-2016 | Engine CAN |
| L538 | RANGE ROVER EVOQUE* | 2014-2017 | Engine CAN |
| L494 | RANGE ROVER SPORT | 2014-2016 | Engine CAN |
| L494 | RANGE ROVER SPORT* | 2017-2017 | Engine CAN |
| - | RANGE ROVER VELAR | 2017-2018 | Body CAN |

* It is necessary to have connection to LIN-bus (see p.5).

## LEXUS

**Indication:** Security lamp, sound signal.
**Programming button:** The accelerator pedal pressed as far as it can go.

| Model | Years | CAN bus |
|---|---|---|
| LX570 | 2015-2016 | Engine CAN |
| NX | 2016-2016 | Engine CAN |
| RX | 2015-2016 | Engine CAN |

## MAZDA

**Indication:** Turn signal indicator light on car dashboard.
**Programming button:** The accelerator pedal pressed as far as it can go.

It is necessary to have connection to LIN-bus for all models (see p.5).

| Model | Years | CAN bus |
|---|---|---|
| 3 BM | 2016-2017 | Engine CAN |
| 6GJ | 2017-2017 | Engine CAN |
| CX-5 | 2017-2017 | Engine CAN |

## MERCEDES-BENZ

**Indication:** Indication of the fog head lamp on car dashboard.
**Programming button:** The accelerator pedal pressed as far as it can go.

| Class | Model | Years | CAN bus |
|---|---|---|---|
| GL | X166 | 2012-2016 | Body CAN |
| GLE | - | 2015-2017 | Body CAN |
| ML | W166 | 2012-2015 | Body CAN |

**Indication:** Distance light indicator on car dashboard.
**Programming button:** The accelerator pedal pressed as far as it can go.

| Class | Model | Years | CAN bus |
|---|---|---|---|
| C | W205 | 2015-2017 | Body CAN |
| E | C207 | 2014-2014 | Body CAN |
| E | W213* | 2015-2017 | Body CAN |
| S | W222 | 2015-2017 | Body CAN |

* ATTENTION! E W213 model does not have the emergency security deactivation, the device should be dismantled. In order to install the device for the first time it is necessary to: start the ignition, power the device and select item 7 in the menu (key fob management).

## NISSAN

**Indication:** Turn signal indicator light on car dashboard.
**Programming button:** The accelerator pedal pressed as far as it can go.

| Model | Years | CAN bus |
|---|---|---|
| Murano | 2014-2016 | Engine CAN |
| Patrol | 2014-2016 | Engine CAN |
| Teana | 2012-2016 | Engine CAN |

## TOYOTA

**Indication:** Security lamp, sound signal.
**Programming button:** The accelerator pedal pressed as far as it can go.

| Model | Years | CAN bus |
|---|---|---|
| Camry | 2012-2016 | Engine CAN |
| LC Prado | 2015-2016 | Engine CAN |
| LC200 | 2012-2016 | Engine CAN |
| Prius | 2010-2012 | Engine CAN |
| RAV-4 | 2015-2016 | Engine CAN |

## ANNEX
## KEYLESS BLOCK PRO / KEYLESS BLOCK PRO +

## BMW

**Indication:** Turn signal indicator light on car dashboard.
**Programming button:** The accelerator pedal pressed as far as it can go.

The connection is made via 2CAN (p. 6-7).

| Edition | Model | Years | CAN bus |
|---|---|---|---|
| 5 | G30 | 2017-2017 | PT-CAN + CAN-5 |
| 7 | G11 G12 | 2015-2018 | PT-CAN + CAN-5 |

**Specifications**

Current consumption in security mode, not more than .... 3 mA
Operating voltage ..... 6-15 V
Radio-channel frequency ..... 2,4 GHz
Battery life ..... 6 months

**Contents of the set**

| | |
|---|---|
| KEYLESS BLOCK module | 1 pcs. |
| Key fob* | 2 pcs. |
| Battery element 2032* | 2 pcs. |
| Operating manual | 1 pcs. |
| Packing | 1 pcs. |

* only for set versions:
KEYLESS BLOCK +
KEYLESS BLOCK PRO +

Made in Russia
Manufacturer: LLC «DMA Group»
C-RU.АЛ14.В.10097

The developer and the manufacturer retain the right to make technical updates not specified in this operating manual. To learn more visit our web-site:

http://author-alarm.com

## WARRANTY CERTIFICATE

Warranty is 12 months from the date of the purchase. During this period technical support and maintenance are guaranteed for free. The warranty does not apply to the items with:

- mechanical damage, burnt and char pieces, components, conductive tracks etc.;
- traces of an independent repair;
- damage caused by natural hazards, fire, social factors;
- violation of the tamper-evident seal, damage or absence of a factory/trade label.

Only items in complete set and with the original packing are taken for warranty repair.
Absence of packing is regarded as noncompliance with transportation rules. The warranty does not apply to the damage incurred to another equipment operating together with this device.

Item (model) _____

Sale date _____/____/_____

The contents of delivery ___, functioning ___, absence of mechanic damage ___ are checked.
I am acquainted and agree with the condition of warranty service:

Buyer _____

Seller _____ seal

Supported Cars List App.

AUTHOR
ALARM