

SEO DOLPHIN 12/24V INSTALLER MANUAL

Turn the ignition ON and OFF for seven times with alarm disarmed. This will cause LED to light for 3 seconds. At this time, turn the ignition ON for the LED to start a countdown from 1 to 9. Turn the ignition OFF after required amount of flashes (the LED has to fade, otherwise the system terminates the procedure) to accept the digit (number). Activate the ignition again for the LED to countdown in order to enter next digit. 4 digits of code has to be entered:

- 3311** – default – restoring factory settings i.e. 3313, 3316, 3318, 3322, 3329, 3332, 3333. User's PIN CODE will be cancelled. NOTICE: 'default' function may be also switch on by connecting prior to turning the power supply on, processor's legs 1 and 2 (a dot on the integrated circuit shows leg 1) then place the power supply back and disconnect processor's legs. Such procedures set the alarm on 'disarmed'
- 3313** – time of car central locking set to 0,8sec
- 3314** – time of car central locking set to 3,5sec
- 3315** – entering user's individual PIN CODE for emergency disarming. Enter code 3315 together with new 4-digit number. For example user's PIN CODE (without digit 0) is 2222 – it means entering number 33152222 (ignore the fact that after entering code 3315 LED lights up for 3sec. informing code confirmation – during that 3sec. activate ignition and run procedure of entering user's PIN CODE). Example: Activate the ignition seven times in 5sec. for the LED to light up for 3sec.- during the time activate ignition for the LED to start the count from 1 to 9. After 3rd flash of the LED turn the ignition off (digit 3 will be memorized) then activate ignition again and turn it off after 3rd flash of the LED (digit 3 will be memorized). Similarly enter other digits: 1, 5, 2, 2, 2, 2. After the completion of this procedure the user disarms the alarm by entering code 2222 which is his/her individual PIN CODE for emergency disarming.
- 3316** - 5sec delay to arm door sensors (in arming door sensors)
- 3317** - 40sec delay to arm door sensors
- 3318** – switch the 'comfort' function off
- 3319** – time of 'comfort' function 25sec
- 3321** – smooth adjustment of the 'comfort' function time from 0 to 64sec. (turn the ignition on after required time).
- 3322** – switch the 'bolt' (lock) function off (double impulse for switching on/off the alarm)
- 3323** – double impulse for locking the car central lock
- 3324** – double impulse for unlocking the car central lock
- 3325** – double impulse for locking and unlocking the car central lock
- 3326** – time of the boot impulse – 1sec
- 3327** – smooth adjustment of the boot impulse time from 0 to 64sec (turn the ignition on after required time)
- 3328** – allow loud mode of switching the alarm on/off (prohibited in EU, do at your own risk)
- 3329** – silent mode of switching the alarm on/off
- 3331** – allow indicators' confirmation of switching the alarm on/off (default 3332)
- 3332** – no indicators' confirmation of switching the alarm on/off

3333 – rearming function on

3334 – rearming function off

Check the maximum capacity of the split circuit – transmitter should not operate near the capacity limit of 15A – take a safety margin into consideration.

1. Independent immobilizer / immobilizer with kidnapper functionality

2-PIN socket nearby cut-off circuit is meant to connect authorisation switch. If you want to use this functionality, cut gray loop and solder ends to NO momentary switch. This way end user could use additional functionality (see paragraphs 11-14 of user manual).

ATTENTION

You can only cut starter circuit because relay blocks circuit 45 seconds after activation of kidnapper functionality in order to block next engine crank.

2. Additional channel

If necessary, installer could use additional channel output – open collector. Shorting to ground time could be set with additional codes 3326 and 3327.

ATTENTION

The device uses a 25A interlock relay, but it operates on a passive contact (see paragraphs 5.4 and 5.6 of UNECE Regulation No. 97) with a load capacity of 15A for 12V / 7.5A for 24V. The interlock relay constantly closes cut-off circuit (with alarm ON or OFF) – circuit opening occurs only in the event of an unauthorized attempt starting the car.

Installation notes for the installer; Installation conditions SEO Dolphin 12/24V

The SEO Dolphin car alarm is intended for permanent installation in vehicles with 9-50V electrical installation and negative ground in the passenger compartment.

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1. The alarm should be powered directly from the battery; it is permissible to power it from fuse box.
2. Wires must be soldered to vehicle's installation. Soldering must be done using rosin. Proper soldering will only be done once the soldered area has warmed up so that the tin and rosin flow around the soldering point from all sides. Properly done solder is shiny. If wire is only „caught” to another wire, it may seem that it is soldered properly, but it could slide along the wire without providing proper electrical contact.
3. It is prohibited to lengthen wires.
4. Grounding wire cannot be crimped and bolted to chassis using eyelet. It must be soldered to existing installation. Sometimes drilling a hole in chassis and using flat washer causes to poor grounding. Please eliminate such assembly shortcomings.
5. Wires should not contact with any moving parts, they cannot be either crushed. Avoid high temperature areas.
6. The alarm control must be hidden away to ensure that the water cannot contact it. It is prohibited to hide it in wheel arch. Make sure to mount the device with socket pointing downwards, so exceptional water could not get into it. Do not run the device nearby heater or ventilation ducts. Water damage is out of warranty.
7. Checking the central locking impulses should be done with a multimeter. Checking using indicator may cause damage to electronic systems due to increased current flow.
8. The device must be installed firmly. Any movement is prohibited.
9. The siren output has a maximum load capacity of 2A.
10. Mobile phone left in armed car may raise an alarm when receiving call. Make sure to use prevent ultrasonic sensors approved to use in the EU.
11. The device does not provide ground to additional sensors when disarmed. Arming without additional sensors also does not apply ground to sensors.
12. Pay attention to correct location of alarm aerial so that it is not shielded to ensure optimal range of working.
13. Central locking system used with SEO Dolphin must be allowed for trading in the EU.
14. The installation certificate provided with the alarm system should be fulfilled and signed by the installer.
15. In case of installing alarm (remoteless) with CAN module to use with OE manufacturer's remote codes 3332 and 3334 must be programmed.

SEO Dolphin Connectors description

4 PIN CONNECTOR (white)					
PIN	WIRE	DESCRIPTION	MAX LOAD	PROTECTION	NOTES
1	black	GND	-	-	Connect to negative terminal of battery
2	yellow	Turn signal L output	5A	Electronic self-reversible	Voltage for turn signal (+12/24V)
3	red	POWER +9-50V	-	-	Connect to positive terminal of battery
4	yellow	Turn signal R output	5A	Electronic self-reversible	Voltage for turn signal (+12/24V)

2 PIN CONNECTOR (white)					
PIN	WIRE	DESCRIPTION	MAX LOAD	PROTECTION	NOTES
1	black/red	LED signal output	10mA	-	LED
2	black	LED GND	-	-	LED

3 PIN CONNECTOR (red)					
PIN	WIRE	DESCRIPTION	MAX LOAD	PROTECTION	NOTES
1	red	+12 siren power	2A	Electronic self-reversible	Constant +12V
2	purple	Siren signal output	2A	Electronic self-reversible	Trigger signal for siren Do not connect to horn
3	black	Siren power GND	-	-	Ground

6 PIN CONNECTOR (white)					
PIN	WIRE	DESCRIPTION	MAX LOAD	PROTECTION	NOTES
1	red	+12V for CAN module	500mA	Electronic self-reversible	Constant +12/24V
2	black	GND for CAN module	-	-	Ground
3	orange	+12V ignition switch input	-	-	Ignition switch +12V signal
4	blue	Alarm trigger input from door sensors	-	-	GND switch input – when connecting to dome light, set delay for 40sec (3317)
5	brown	Input for boot signal from OE manufacturer's remote	-	-	CAN module sends signal when boot button is depressed on OE remote
6	yellow	CAN turn signals output	5mA	Electronic self-reversible	CAN module receives data and starts to blink turn signals using CAN bus

4 PIN CONNECTOR (white)					
PIN	WIRE	DESCRIPTION	MAX LOAD	PROTECTION	NOTES
1	white/red	Central locking close output	120mA	Electronic self-reversible	Switch to GND for 0,8 or 3,5sec
2	white/black	Central locking open output	120mA	Electronic self-reversible	Switch to GND for 0,8 or 3,5sec
3	white/green	Additional channel output	120mA	Electronic self-reversible	Switch to GND for set amount of time
4	blue	Alarm trigger input from door sensors		-	GND switch input – when connecting to dome light, set delay for 40sec (3317)

3 PIN CONNECTOR (white)					
PIN	WIRE	DESCRIPTION	MAX LOAD	PROTECTION	NOTES
1	black	GND output to additional sensors	120mA	Electronic self-reversible	Switch to GND only after arming
2	blue	Alarm trigger input from additional sensors	120mA	-	Switch to GND for 0,8 or 3,5sec
3	red	+12V output to additional sensors	120mA	Electronic self-reversible	Constant +12V for additional sensors

2 PIN CONNECTOR (white)					
PIN	WIRE	DESCRIPTION	MAX LOAD	PROTECTION	NOTES
1	gray	Authorisation input (default short to GND)	-	-	Cut the gray wire in half and solder switch
2	gray	Authorisation GND	-	-	GND for authorisation switch

SEO Dolphin 12/24V additional technical data

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Central locking control impulses graph

