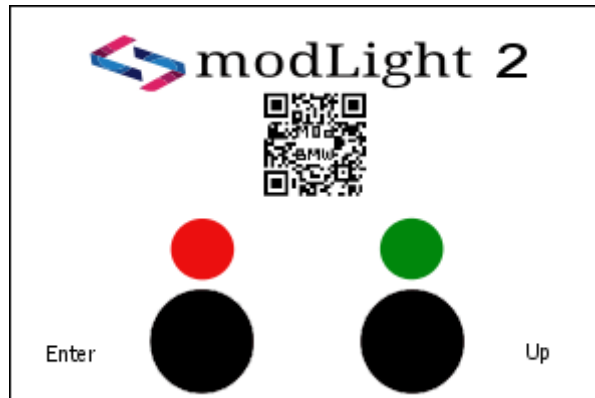# modLight 2

Instructions for use

Thank you for choosing our product!
Please, read carefully the instructions for use before installing your modLight2 module.

The following is included in the set of your modLight2 module: a modLight2 module with a male connector, female connector, packaging, and instructions for use.

To install your modLight2 module, you have to connect it to 3 cables from the installation of your car – the direct (constant) 12 volts, ground and IBUS. It will be the easiest and most convenient for you to use the female connector.

1. Please, connect the brown cable from the female connector to the ground (GND) from the cabling of your BMW. Usually the colour of the cable, connected to the chassis (ground), on BMW is brown or brown/white. Please, use a voltmeter to check before the installation.

2. Please, connect the red cable from the female connector to direct 12V from the cabling of your BMW. Usually the colour of the direct plus cable on BMW is red/green, red/white. Please, use a voltmeter to check before the installation.

3. Please, connect the yellow cable from the female connector to the IBUS of your BMW. This is done by connecting it in a fixed state to any IBUS conductor in your car. The colour of the IBUS cable is always white/grey/yellow dots.

All three cables that you need to mount the module are available at multiple places in your car – at the jack on the radio, at the CD changer, the dashboard, the LCM module, etc. One of the most convenient places for access and installation is behind your left tail light. All three cables are available there, no matter whether your car is equipped with modules of the latter or not.

After you have connected your female connector to the cabling of your car, please, connect the male connector of your modLight2 module to it. If you have connected everything correctly, the red and green indicator on the module will blink for around 3 seconds. This almost completes the initial installation of modLight2. Now you have to get familiar with the functions and the settings which the module offers. All possible functions and their settings are described in these instructions for use. The different settings of the functions are entered (programmed) in the module in simple way, through the user interface with 2 buttons and 2 indicators, which you easily see on the face of the modLight2.

The right button plays the role of „up" or „scroll", i.e. each press on it leads you to the next option.

The left button plays the role of "enter", which you will usually use to select or confirm the selection by the right button.

In order to change the setting of a certain function, you will just have to program a different option for it and the easiest way to explain this is by giving you an example.

Example: if you wish to activate triple blinker, you have to set function3 of option4, which is done in the following way:

1. You press the right button three times to select function3. On every pressing of the button, the green indicator turns on for a moment to show you that you have pressed the button successfully.

2. After pressing the right button three times, please, press the left button (enter) once, which will make the red indicator turn on for a moment.

3. Please, press the right button 4 time to select option4.

4. Please, press the left button (enter) once to confirm the selected option.

5. Immediately after this confirmation, you will see the red indicator turn on and the green one counting the function we are changing. After counting it, i.e. after the green indicator blinks 3 times in this case, the red one will turn off and the green one will count the option we have entered, i.e. it will blink 4 times. With this you understand that you have successfully changed Function3 of Option4.

Function 1 – Automatic locking when reaching 18km/h.
Option1 = ON (E39/E38)   Option5*** = ModLight2 Factory Defaults (this resets modLight's settings to factory defaults)
Option3 = OFF (default)
*If this function is set to ON, your car will lock itself when you reach 18km/h. This function will not work if your car is X5 E53.
** We recommend using this function only if your car cannot be coded (with diagnostic equipment) for such factory function. Self-locking, especially for newer BMWs (after 1999) is not a well-designed manipulation through the IBUS.
***If you want to reset all the functions and settings of your modLight2 module, please set Function1 to Option5. The LEDs will blink for 4 seconds to confirm that you successfully reset your modLight2.

Function 2 – Automatic unlocking of the car when the engine is turned off.
Option1 = Unlocks on turning the key to position 1 (ACC) and/or to position 0 (OFF) (E39/E38)
Option3 = It does not unlock (default)   Option4 = For E39/E38 - Unlocks on turning the key to position 1 (ACC)
Option5 = For X5 (E53) unlocks when you turn the key to position 1 (ACC).
*If this functions is activated, your car will get unlocked immediately (if it is locked), when you turn off the engine.
** Option4 is created for those cars whose GM module is factory programmed to send zeroing message on the IBUS at a certain interval. This message would make the car to randomly unlock itself while driving if Option1 is selected. If your car unlocks randomly while driving, please select Option4.

Function 3 – Cornering lights and comfort turn signals
Option1 = Cornering lights   Option2 = Cornering lights & comfort blinker
Option3 = Off   Option4 = Triple blinker (perfect)
Option5 = Triple blinker 620ms (slower activation) Option6 = Triple blinker 630ms (slowest activation)

*"Cornering lights" is a popular function among the newer cars. The aim is to help you in urban conditions by turning on additional light when turning, in order to expand your viewing angle.

Function 4 – 'Welcome' / 'Goodbye' message. You can select one of these messages:

Option1 = BMW E39 Club	Option2 = BMW MOTORSPORT	Option3 = Off,
Option4 = BMW E39 CLUB UK	Option5 = BMW ///M5	Option6 = BMW Individual
Option7 = ALPINA D10	Option8 = BMW Performance	Option9 = ///M

*The message will appear only if your BMW is equipped with a HIGH IKE (high obc).

Function 5 – Automatic folding of the side mirrors.
Option1 = long press the lock button on your remote control.   Option2 = double press the lock button on your remote control.
Option3 = OFF.   Option4 = single press the lock button.

Function 6 – Lights with long press of the lock button (check modLight cycles here modbmw.com/patterns)
Option1 = Follow me home (high beam, fog lamps, rear lights)   Option4 = modLight cycle 2 (not recommended)
Option2 = modLight cycle 1   Option5 = Webasto independent heater ON*   Option7 = Ventillation ON
Option3 = OFF   Option6 = modLight cycle 3   Option8 = Webasto heater 2*
*This function enables you to program which light cycle is to start by holding the lock button. Option1 is used as 'follow me home' function, which is popular with the newer BMW cars.
**You can review the modLight light cycles here: modbmw.com/patterns.
***You can prolong the time of 'follow me home' or the other light cycles. Please read below.

Function 7 –Second press of lock button (modLight cycles here modbmw.com/patterns)
Option1 = Follow me home (high beams, fog lamps, rear lights);   Option4 = modLight cycle 2 (not recommended)
Option2 = modLight cycle 1   Option5 = Webasto independent heater ON*   Option7 = Ventilation ON
Option3 = OFF   Option6 = modLight cycle 3   Option8 = Webasto heater 2*
*If Option5 does not turn on your independent heater, please set to Option8. With Option5 your modLight2 will simulate NAVIGATION/MID message to start the Webasto heater. With Option8 modLight2 will send diagnostic message to start the Webasto heater.

Function 8 – GM module version of your car
Option1 = Old GM module. No signals from the lock/unlock buttons in IBUS/KBUS.
Option3 = New GM module (default). There are signals on the IBUS/KBUS for pressing any remote control button.
*In case that you receive your modLight2, but the functions connected to locking, unlocking and holding a button from your remote control do not work, select Option1 for that function or replace your GM with a newer version.
When using Option1 (Old GM), we do not have IBUS messages by pressing the remote control buttons of the key. The double press lock function is not possible with the Old GM module.

Function 9 – Single press of lock button (Goodbye lights)
Option1 = sidelights (parking lights) (default)   Option4 = modlight cycle 1   Option7 = modLight cycle 3
Option2 = Not used   Option5 = high beams + reverse + fog lights
Option3 = OFF   Option6 = modLight cycle 2 (not recommended)

Function 10 – Single press unlock buttons (Welcome lights)
Option1 = Sidelights (parking lights) (default)   Option4 = modlight cycle 1   Option7 = modLight cycle 3
Option2 = Not used   Option5 = high beams + reverse + fog lamps
Option3 = OFF   Option6 = modLight cycle 2 (not recommended)
*You can prolong the selected light pattern. Please see the next items in the instructions.
**In case that you select Option1 'Sidelights', you can add the fog lamps or the dipped-beam headlights. Please see the next items.

Function 11 – 'Comfort blinker' blinks
Option1 = not used   Option2 = not used   Option3 = 3 blinks
Option4 = 4 blinks(default)   Option5 = 5 blinks   Option6 = 6 blinks
*This function is used only if Function3 is programmed to Option4 (Triple blinker).

Function 12 – Duration of the 'Single press lock cycle'
Option1 = 10 seconds (default)   Option2 = 15 seconds
Option3 = 20 seconds   Option4 = 25 seconds

Function 13 – Duration of the 'Single press unlock cycle'
Option1 = 10 seconds (default)   Option2 = 15 seconds
Option3 = 20 seconds   Option4 = 25 seconds

Function 14 – Additional lights for the 'Single press unlock cycle'
Option1 = OFF   Option2 = Fog lamps (front)   Option3 = dipped-beam headlamps

Function 15 – Additional lights for the 'Single press lock cycle'
Option1 = OFF   Option2 = Fog lamps (front)   Option3 = dipped-beam headlamps

Function 16 – Duration of the 'Follow me home' cycle
Option1 = 10 seconds (default)   Option2 = 15 seconds
Option3 = 20 seconds   Option4 = 25 seconds

Function 17 – Automatic restart of modLight2 module
Option1 = 1 hour   Option4 = 8 hours
Option2 = 2 hours   Option5 = 24 hours
Option3 = off   Option6 = 48 hours
*This function automatically restarts the modLight2 module every 1, 2, 8, 24, 48 hours from the last activity of the IBUS.

Function 18 - Automatic unfolding (extension) of the side mirrors.
Option1 = Single press of the unlock button on your key
Option3 = OFF
Option4 = Turn the contact key to position 2 (IGN)

Function 19 – IBUS communication version
Option1 = Version 1   Option2 = Version 2 (default)   Option3 = Version 3
*Please select your version or test which of the functions, "Triple blinker" or "Cornering lights" will work better on your car.

Function 20 – "Welcome lights" cycle for each waking up/restart of the modLight2
Option1 = On. Your modLight2 module will start the "welcome lights" with each of its waking up/restart.
Option2 = Off (default)

Function 21 – Folding/unfolding – choice of model
Option1 = Reversed   Option2 = E39/E38 (default)   Option3 = E53 (X5)

Function 22 – Repetition of the modLight light cycles. If you wish to make these cycles longer, just program this function to a larger number of cycle repetitions (from 1 to 20)
Option1 = Repeat once; Option2 = Repeat twice; Option3 = Three times; … Option20 = Repeat 20 times.

Function 23 – "Welcome message" activation condition:
Option1 = With position 2 of the key (IGN);   Option2 = With position 1 of the key (ACC) (default).
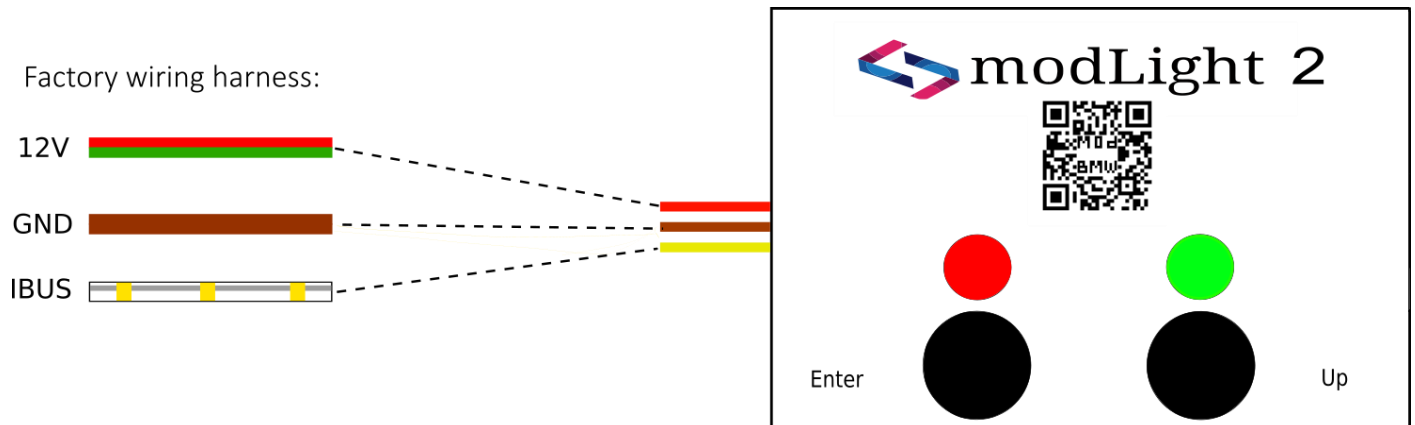
Function 24 – Webasto heater turn off when engage the key to position2 (IGN):
Option1 = Turn off heater (default)   Option2 = No turning off when key to position2

Function 25 – ModLight will check the level of instrument cluster brightness and headlights position:
Option1 = Yes (default)   Option3 = No (it will leave instrument cluster and headlights level to MAX)

modLight 2

Factory wiring harness:

12V

GND

IBUS

Wiring diagram of modlight2's connector:
PIN1 (RED) – 12V (constant 12V)
PIN2 (BROWN) – Ground (chassis)
PIN3 (YELLOW) – IBUS (communication)

In case that your car is not equipped with a properly working IBUS, you can connect the modLight2 to the KBUS. Each function is adjusted to work with KBUS as well, besides the "welcome message" on the high on-board computer (HIGH IKE). Please use a voltmeter or another measuring device in order to confirm the supply cables which the module is connected to!

Please, keep in mind that each additional wiring diagram or module, including modLight2, must be properly installed by a professional!

Do not connect in a way different from the one described in there instructions for use!

Visit our website: modbmw.com
IBUS Lights patterns videos: modbmw.com/patterns

Thank you!

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https://modbmw.com