

The one-touch turn signal (OTTS) module LC1.4L enhances the functionality of the turn signal lever by adding a mode where a single touch makes the indicators blink for a certain number of times. This behavior is also known as lane change turn signal or comfort blinker.

Technical characteristics

Power supply voltage	12 -16V
Maximum load current	7 A
Maximum power load	84 W
Operating Temperature Range	-40+60°C
Current consumption in standby mode, no more than	10mA
Number of pulse elongation	1 to 8

Functionality

OTTS module works as follows:

- If you make a lightly press, the lever turns (right or left) the OTTS module will give you some series of flash of the turns signal light which you can program;
- But if you make a long press on the turn signal switch, the elongation effect is not available;
- If you will turn on OTTS module while it is working in one direction, the turn signal lights will be off, but it will be on on the other direction;
- If you make a lightly press on the hazard switch, the device will generate two flashes (number of flashes is programmed) of all hazard warning lamps, this is function "thank you";
- After one second when the reverse gear is on, the hazard warning lights will be on too for the attraction the attention of others drivers (if you want to attach this function);
- If you want to reconfigure your device, you can connect an additional button with a function "thank you" to the control wire of "reverse".

In the OTTS module LC-1.4L the polarity of signal reversing is negative (Ground).

Connecting to the hazard switch

The scheme of connection will add separately if you will give the information about your car brand and the year of producing auto.

Attention! When you are connecting the OTTS module you **must** turn the ignition switch to LOCK and remove the key!

You have to connect the OTTS module as follows:

1. The connection the OTTS module must begin with a black wire, and then the red. You need to control the display of the red LED on the board extension to verify the connection. The red LED should light up when the ignition turn to ON and the red LED should go out when the ignition switch to LOCK. Turn the ignition switch to LOCK and remove the key;
2. The third connects the blue wire. Correct connection of the blue wire must be monitored by a green LED. If everything connecting properly, the red and green LEDs have to light at the same

time after turn to ON the ignition. When you switch on the left and right turns signal, the green LED should flash in time with the turn signal light. Turn the ignition switch to LOCK and remove the key;

3. You have to connect the orange wires at last. The connections of orange wires are very important because from the correctness of their operation depends working the OTTS module as a whole. The OTTS module doesn't have the indications of orange wires.

Fourth wire connects the orange wire "left turn". Orange wire connects as follows:

- 3.1. Turn to ON the ignition, red and green LEDs must light on;
- 3.2. Lightly press the lever turns in the direction of "left" to control the elongation of turns;
- 3.3. Turn the ignition switch to LOCK and remove the key;

If there is no elongation of turns, turn the ignition switch to LOCK and reconnect the orange wire "left turn" to another connector of terminal button of hazard switch. Repeat steps 3.1 - 3.3.

Fifth wire connects the orange wire "right turn."

Attention! Orange wire "left turn" has to connect to the left turns signal light and orange wire "right turn" has to connect to the right turns signal light. Otherwise, the user can not get into the programming mode or the programming the device wrongly.

4. The last connect is gray wire "reverse". Gray wire connects to signal back-up light.

The terminals of OTTS module have to be connected to the appropriate sockets of hazard switch of your auto. After installation the wires of OTTS module have to be attached to standard wiring using plastic cable tie to avoid losing contact in the connector.

Gray wire connects to the "-" of control circuit back-up lights. It is not showed on the wiring diagram very often.

WARNING! You should immediately turn the ignition switch to LOCK and remove the key from the ignition and check the correct installation of the device when OTTS module is heated or malfunctioned. Otherwise, the OTTS module would be broken with losing of warranty.

Wiring diagram is supplied according to a certain brand of car and the year of producing auto.

Note: The gray wire without connector can not be connected.

Possible problems

Device is not working and turn signal flashes only one time or relay turns only clicking. In this case you have to check type of relay turns. The OTTS module works only with modern type of relay turns, with have such chips as ASXP193, U2043 or other analogs.

Attention! You can programming your device only during 20 seconds after turn the ignition switch to ON (it's equivalent as you turn on the power to the device).

Program mode

The OTTS module has opportunity of programming the number of flashes during elongation of the turns and the number of blinks of the function "thank you".

Attention! You can programming your device only during 20 seconds after turn the ignition switch to ON (it's equivalent as you turn on the power to the device).

For the programming you have to turn the ignition switch to ON, then turn on the left signal light, after three flashes you must turn off the left signal light and turn on the right signal light, after three flashes you have to turn off the right signal light. The OTTS module blinks two times of hazard warning lamp if you did everything correctly and you can begin to program your device. You have two parameters with you have to program one after other.

The first parameter is the number of turn flashes during elongation. For the programming of this parameter you have to turn on the left signal light and count the number of flashes you need during the elongation, but not less 8. Turn off the left signal light.

The second parameter is number of flashes of warning hazard light (the function "thank you"). For the programming of this parameter you have to turn on the right signal light and count the number of flashes you need, but not less 8. Turn off the right signal light.

If you did everything correctly the OTTS module blinks two times with warning hazard lights. That means new parameters are recorded into the memory and the OTTS module has just finished programming mode. Otherwise, the OTTS module blinks four times with hazard lights and that means it has just finished programming mode without recording new parameters.

Reconfiguration of OTTS module

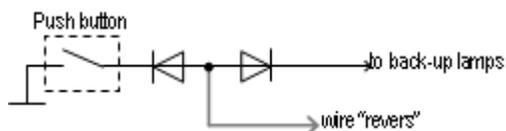
The OTTS module is available with input configuration "reverse" without possibility to connect the button with function "thank you".

For the reconfiguration of device you have to enter to programming mode and touch the ground with the wire of "revers". If you did everything correctly the OTTS module blinks two times with hazard lights and exit from programming mode. After that you can connect the gray wire "revers" to the button. The button and signal of revers must be connected to the diodes. The lightly press on the button means "thank you" and turn on of revers means turn on of warning hazard lights.

It will be impossible to connect the button with function "thank you" if you reconfiguration device again.

Note: We don't send diodes and button in this set. Don't use the function of reconfiguration with automatic transmission.

Connection of additional buttons



The one-touch turn signal module LC-1.4L

v3.0



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Limited warranty

Autofishki warrants the original purchaser that for a period of twelve months from the date of purchase, the product shall be free of defects in materials and workmanship under normal use. During the warranty period, Autofishki shall, at its option, repair or replace any defective product upon return of the product to its factory, at no charge for labour and materials. Any replacement and/or repaired parts are warranted for the remainder of the original warranty or ninety (90) days, whichever is longer. The original owner must promptly notify Autofishki in writing that there is defect in material or workmanship, such written notice to be received in all events prior to expiration of the warranty period.

Warranty Procedure

To obtain service under this warranty, please return the item(s) in question to the point of purchase. Anyone returning goods to Autofishki must first obtain an authorization number. Autofishki will not accept any shipment whatsoever for which prior authorization has not been obtained.

Conditions to Void Warranty

This warranty applies only to defects in parts and workmanship relating to normal use. It does not cover:

- damage incurred in shipping or handling;

Approval certificate

The OTTS module LC-1.4L is accordance to the technical specifications and it fits for service

Date of testing

Date of purchase «__»_____

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- damage caused by disaster such as fire, flood, wind, earthquake or lightning;
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- defects caused by failure to provide a suitable installation environment for the products;
- damage caused by use of the products for purposes other than those for which it was designed;
- damage from improper maintenance;
- damage arising out of any other abuse, mishandling or improper application of the products.

Autofishki liability for failure to repair the product under this warranty after a reasonable number of attempts will be limited to a replacement of the product, as the exclusive remedy for breach of warranty. Under no circumstances shall Autofishki be liable for any special, incidental, or consequential damages based upon breach of warranty, breach of contract, negligence, strict liability, or any other legal theory. Such damages include, but are not limited to, loss of profits, loss of the product or any associated equipment, cost of capital, cost of substitute or replacement equipment, facilities or services, down time, purchaser's time, the claims of third parties, including customers, and injury to property.