



## Slimcan 85 INSTALLATION MANUAL



### **READ THE INSTRUCTIONS CAREFULLY BEFORE CONTACTING ASSISTANCE**

Slimcan 85 is a CANBUS multi-protocol module with PIC 18F4685 microprocessor.

The canbus profile setting is in auto-recognition. For canbus connections, please use the QR CODE below.

There are 5 analog outputs:

- 1 output 12V 1A under-key signal.
- 1 output 12V 100mA lights on signal.
- 1 output 12V 100mA reverse gear engaged signal.
- 1 GND output 100mA handbrake engaged signal.
- 1 output square wave speed signal 12V 100mA with PULL-DOWN (2 selectable pulse cycles).

Once the connections are complete, the module LED lights up GREEN and is ready to work.

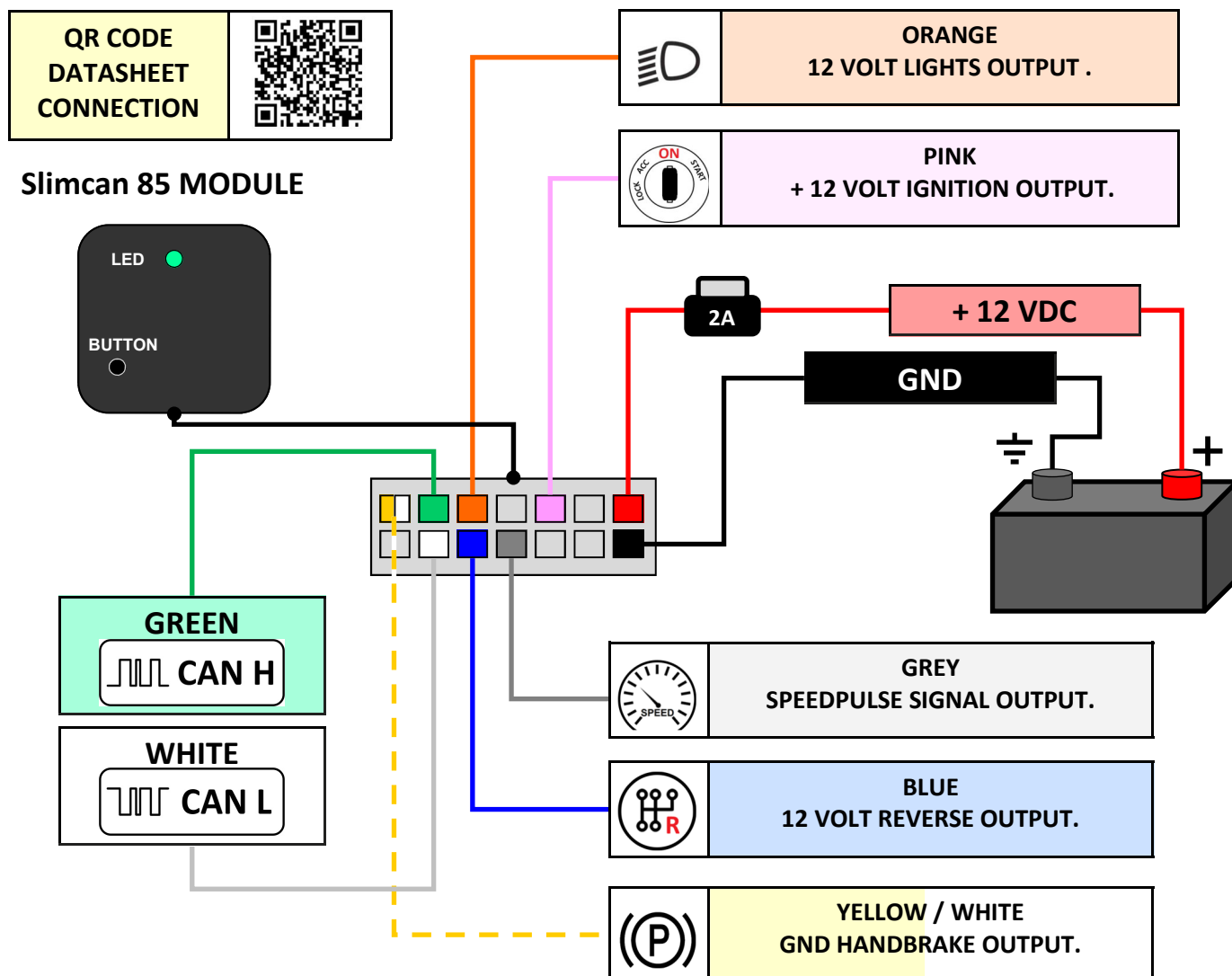
**The availability of the outputs may vary from vehicle to vehicle based on the canbus protocol.**

**For correct installation, please perform the steps described below:**

### CONNECTIONS



**WARNING!**  
**MANDATORY CONNECTIONS ARE:**  
**RED TO +12 VOLTS**  
**BLACK TO GND**  
**GREEN TO VEHICLE CAN H**  
**WHITE TO VEHICLE CAN L**



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### OPTIONS

Slimcan 85 allows you to change the STATUS of a series of OPTIONS, from value 1 to 2, this to vary the functionality of some outputs. The setting procedure is described below.









By reading the elementary steps mentioned below, anyone is able to perform the operation.

### OPTIONS AND SETTINGS MENU ENTRY

To enter the OPTIONS SETTINGS menu, the module LED must be lit **GREEN**.





Then perform this procedure:

With the car key inserted into the latch, **STARTING WITH THE IGNITION SWITCHED OFF**, turn the ignition ON and OFF 3 times, remaining with the ignition ON for the fourth time.

<b>0</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>4</b>
							

The module LED starts flashing: **YELLOW** indicates the **OPTION NUMBER**; **RED** indicates the **STATUS** of the option. So: 1 YELLOW flash = OPTION 1, 1 RED flash = OPTION STATUS 1.

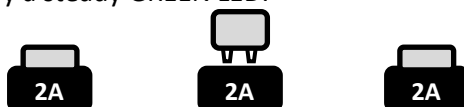
- Briefly pressing the module button will move to the next OPTION. The menu is circular, so when you get to the last option, if you press the module button again, you return to the first OPTION.
- If you want to invert the OPTION STATUS, press the module button for 5 seconds. When you release the button, the LED will flash the chosen OPTION and the new OPTION STATUS.


OPTION FLASHED 	STATUS 1 	STATUS 2  
1	HANDBRAKE GND OUTPUT AVAILABLE WITH BRAKE PULLED	BECOMES GND OUTPUT WITH CAR REMOTE CONTROL OFF
2	12V OUTPUT WITH REVERSE GEAR ENGAGED	BECOMES 12V OUTPUT WITH DOORS OPEN
3	SPEED SIGNAL 23000 PULSES PER MILE	BECOMES SPEED SIGNAL 4000 IMPULSES PER MILE
4	12V OUTPUT REVERSE GEAR ENGAGED	BECOMES 12V OUTPUT PRESENT BELOW 15Km/h (ONLY FOR ACTROS)
5	OUTPUT + 12 REVERSE GEAR ENGAGED.	BECOMES GND OUTPUT WITH "DOORS OPEN".
	USCITA + 12 RETROMARCIA A RETRO INNESTATA.	BECOMES 12V OUTPUT "ALARM ARMED".
	12V OUTPUT WITH LIGHTS ON.	BECOMES 12V OUTPUT "ALARM DISARMED".
6	NO FUNCTION ASSOCIATED WITH THE KEY	BY PRESSING THE EXT BUTTON FOR 2 SECONDS, A 500ms PULSE IS GENERATED ON THE "HANDBRAKE" OUTPUT (option 5 must not be active)
7	STANDARD SPEED SIGNAL	COUNTING ENCODER SPEED SIGNAL (ONLY FOR ALFA MITO, ALFA GIULIETTA, FIAT PUNTO, FIAT 500 AND LANCIA YPSILON)
8 / 9 / 10	NOT MANAGED	
11	GND OUTPUT HANDBRAKE ACTIVE	BECOMES GND OUTPUT WITH THERMAL ENGINE ON (VALID ONLY FOR HYBRID CARS)
12	12V OUTPUT WITH LIGHTS ON.	BECOMES 12V OUTPUT WITH THERMAL ENGINE ON (ONLY FOR JEEP RENEGADE)

**PLEASE NOTE: Options 1-2-3-4, even if active, are ignored if option 5 is active.**

To exit programming, you must disconnect and reconnect the MODULE FUSE.

Exiting programming is indicated by a steady GREEN LED.



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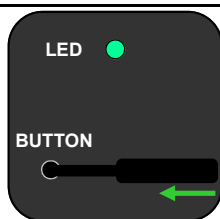


### MODULE RESET

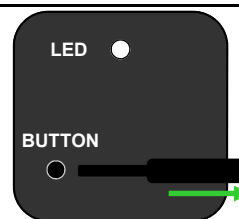


**RESET DOES NOT DELETE PREVIOUSLY CHANGED OPTIONS!!!**

**ONLY IF NECESSARY, RESET THE MODULE USING THE PLASTIC STICK (SUPPLIED) AS DESCRIBED BELOW.**



PRESS AND HOLD THE MODULE BUTTON FOR 10 SECONDS, THE LED WILL TURN OFF. REMOVE THE PLASTIC STICK. THE RESET IS DONE.



### TROUBLESHOOTING



THE UNIT DOES NOT PERFORM ANY FUNCTION AND THE LED IS OFF.

CHECK POWER CONNECTION.

THE UNIT IS POWERED CORRECTLY, BUT IT DOES NOT PERFORM ANY FUNCTION AND THE LED FLASHES RED QUICKLY.

CHECK CANBUS CONNECTIONS.

THE UNIT IS POWERED CORRECTLY, THE CANBUS IS CONNECTED CORRECTLY, BUT IT DOES NOT PERFORM ANY FUNCTION AND THE LED FLASHES RED QUICKLY.

CANBUS SYNCHRONIZATION FAILS, CONTACT TECHNICAL SUPPORT.

### TECHNICAL CHARACTERISTICS

POWER SUPPLY	10/16 VDC
ABSORPTION AT REST	0,001 A
ABSORPTION WHEN WORKING	0,100 A MAX 1,000 A
MAX CHARGE IGNITION OUTPUT	1,000 A
MAX CHARGE SIDELIGHTS / HANDBRAKE / REVERSE GEAR OUTPUT / SPEEDPULSE SIGNAL	0,100 A

### WARRANTY

**THIS PRODUCT IS COVERED BY TWO-YEAR GUARANTEE FOR ANY MANUFACTURING TROUBLES.  
THE WARRANTY IS VALID IF ACCOMPANIED BY THE INVOICE OF PURCHASE**

**READ THE INSTRUCTIONS CAREFULLY BEFORE CONTACTING ASSISTANCE.**  
**CONTACT ASSISTANCE ONLY IF THE VEHICLE IS PRESENT**  
**AND WITH THE MODULE AT HAND**

**Technical Support: + 39 0141 - 947676**

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