MCB-02 car alarm output module mode

The MCB-02 cooperates with the data BUS of Jablotron car alarms. And it also serves as an output module which outputs the functions of those car alarms. To use this mode programs in the interval of 451 to 488 have been prepared.

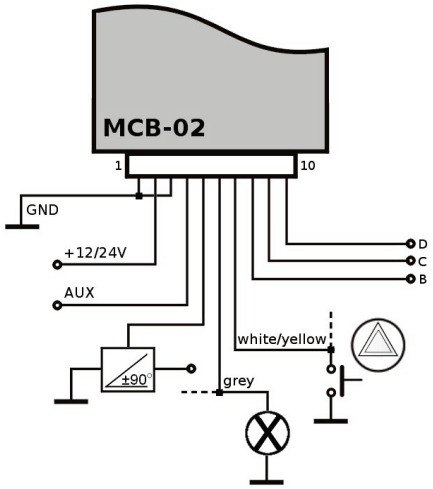
Output mode for powering of external (supplementary) devices:

Choose any mentioned program then the blue wire starts providing power for supplementary detectors. The voltage on the blue wire appears when the alarm is fully set. The output voltage is 12V even if the car alarm is installed in a car with 24V circuits.

Output mode as an optical indicator

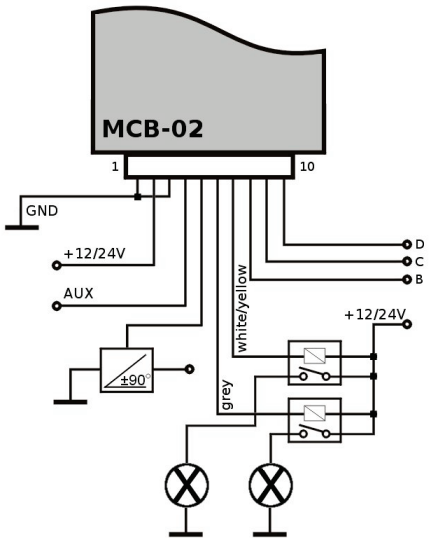
The second digit in the program from 5 to 7 is a choice of the three functions and defines the behaviour of the grey and white/yellow wires. Those options set up the optical indication of the car alarm when set, unset and alarmed.

Value 5. Control by switching warning lights (button mode) – at the first impulse of programmable output A (yellow/white wire) flashing turns on, the next impulse terminates flashing. It requires the connection of one directional light as feedback for flash counting (grey wire).



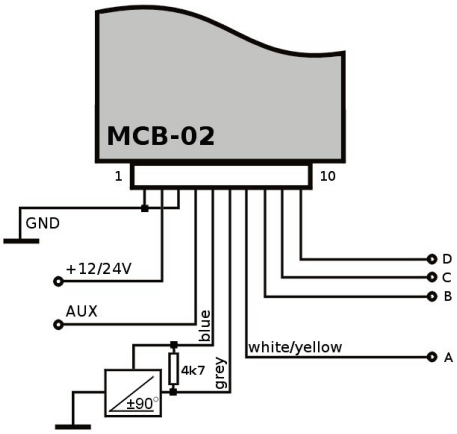
Value 6.Control by switching warning lights (switch mode) – If it would flash then programmable output A is switched on. It requires the connection of one directional light as feedback for flash counting (grey wire).

Value 7.Direct control of turning lights – programmable output A switches on when the turning lights should light. In this mode the grey wire has the same function so by each wire one relay can be controlled (left and right side of turning lights).



Delayed activation of supplementary detectors

The second digit has the **value 8** for this function. It can be used for cars where the tilt detector is installed and they don't change their postion (pneumatic shock absorbers) after the car alarm has been set. So a delay reaction is required. The grey wire is connected to the output of this detector in this case (car tilt). Programmable output A switches on when the grey wire is activated (car tilting), if a 5 minute time period from setting the car alarm has expired. This time can be changed by the MCB-Link application (1 – 15 min). It is necessary to put a 4k7 resistor between the blue and grey wires.



Programmable output functions (B,C,D):

The third value of the program is chosen as one of the 8 combinations and defines the behaviour of the white (B), white/black (C) and white/blue (D) wire:

	Outputs' function		
	B	C	D
1	Double press in unset mode	Locking*	Unlocking*
2	Double press in set mode	Locking*	Unlocking*
3	AUX A**	Locking*	Unlocking*
4	AUX B**	Locking*	Unlocking*
5	Double press in unset mode	AUX A**	AUX B**
6	Double press in set mode	AUX A**	AUX B**
7	AUX A**	Double press in set mode	Double press in unset mode
8	AUX B**	Double press in set mode	Double press in unset mode

* Locking and unlocking pulses are delayed, by connection with particular outputs of the car alarm - you can get double pulses for central locking

** AUX A/B function is available only with Athos GSM car alarms (controlling of supplementary devices).

Wire descriptions:

1/ Black — *vehicle ground*
2/ Red — *+12/24 V*
3/ Orange/brown (orange/white) — *vehicle ground*
4/ Orange/green (orange/black) — *car alarm BUS AUX*
5/ Blue — *output for powering external detectors; +12 V, 25 mA*
6/ Grey — *input for optical indication or supplementary detector*
7/ White/yellow — *programmable output A, GND, 200 mA*
8/ White — *programmable output B, GND, 200 mA*
9/ White/black — *programmable output C, GND, 200 mA*
10/ White/blue — *programmable output D, GND, 200 mA*