

Alarm to be switched on / off by remote control of car's central locking



S230 or S231

e24 A-00 0056

Car-alarm for a vehicle, whose remote controlled central locking confirms its closing and its opening by different blinker signals

The car alarm **S230** or **S231** has to be individually programmed to the different flashings of the indicator lights of the car's remote controlled central locking, thus on such remote commands automatically enabling the car-alarm to be activated when central locking closes, and to be deactivated when central locking opens.

NOTE: The car alarm **S230** or **S231** cannot be fitted into cars, whose central locking does not confirm its remote controlled opening or closing by blinker signals or confirms both by identical blinker signals.

- **electronical siren** for acoustical alarm signals and for status-messages
- **protection**
 - of doors, boot and bonnet-contacts
 - of engine-electrics (ignition plus)
 - optionally by additional sensors with negative alarm output
- **additional devices** can be de-/activated (if consuming max. 200 mA) together with the S230
 - i.e. devices for automatically **closing of the windows**
 - i.e. **additional sensors** with negative alarm output
- **emergency key** 2 pcs., to switch off the car alarm, i.e. in case of loss of car's remote key
- **flashing LED** for status-messages (alarm is switched on or off, is activating itself)
- **beep confirmation** to confirm switching on / off of the car alarm - beeps can be excluded
- **self-powered siren** **only S231:** to power the siren in case of disconnection of car's battery

Additionally connectable surveillance sensors are for example: ■ anti-lift sensor to protect wheels and...., ■ ultra-sonic sensor to detect intrusion into the closed cabin, ■ shock sensor to detect ramming of the parked vehicle, ■ microwave sensor to protect i.e. the open cabin of a cabrio.

GENERAL SECURITY DIRECTIONS FOR INSTALLATION

INSTALLATION INSTRUCTIONS

Read complete instructions before starting installation.

Observe the security-directions and injunctions prescribed by handicraft, and by producers of car as well as of device to be connected.

When working on the car's electrics, first - if possible - disconnect battery's minus-pole (negative) to prevent short circuit risks.

NOTE: On account of disconnecting car's battery-minus all transitory memories will or may lose their programmed data, and will require a re-programming or new input or adaptation (car- and engine-management, clocks, radios, heaters, etc.)

Verification of electrical voltages and polarities has to be performed by digital diode-volt-tester or voltmeter, only. Traditional test-lamps consume too high currents - hence electrical or electronic components of the car could be damaged or triggered unintentionally.

Power supply of additionally installed electrical or electronic components requires connections to properly fused car's wires.

All electrical connections must be pinch- or solder-connections, and must be insulated and protected against mechanical strain and stress. Wires have to be fixed along their ways by wiring-ties or insulating tape in a way, that they will not be squeezed or bruised or broken.

All components have to be secured properly, and to be assembled tightly. Its strictly forbidden to mount any component within the air-bag's deployment zone, at the steering wheel or within passenger head's collision zone (risk of passenger injury).

When drilling (as far as drilling is required at all) be aware of existing wires, tubes - and of sufficient space for the drill's leaving.

If not common with car's electrics, it is recommendable to let the car alarm be installed by an expert workshop.

Producer's liability does not cover any damage caused by incautious use of the car alarm device or caused by non-proper functions, which result from installation-deficiencies or surpassing of technical data or non-observance of these directions. Product liability only covers guaranty claims, which consider the car alarm device itself.

COMPONENTS SUPPLIED:

[1] alarm-unit in siren-housing (mm: 90 • 80 • 90)
[2] wiring (with 6-pin-plug, and 8 wires)

[3] ground-contact-switch for bonnet or door
[4] LED with double-wire
[5] 2 emergency keys

[6] bracket to mount siren
[7] bracket screws

TOOLS AND ADDITIONAL MATERIALS:

Nippers and pinch-tongs, digital 12V-diode-volt-tester or voltmeter, pinch-connectors. If necessary: solder and soldering-iron. 5mm drill, and three 5mm-screws to mount the siren. Wiring-ties and/or insulating tape to fix the wires along their ways, If necessary, additionally: fuses (7,5A +), diodes, and additional sensors.

RECYCLING DIRECTIONS:

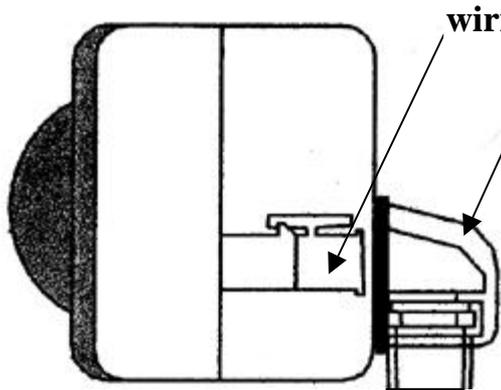
Electronic devices contain a lot of recycable and/or (environmental) harmful components. Take care that these components will be deposited according to the regulations. In case of any doubt, please contact the supplier.

S230 / S231 - ELECTRICAL CONNECTIONS

function	wire's colour	specification	examples for connection (explanation)
recognises application of ignition plus supplies +12V to the alarm unit ground connection of the alarm adaptation to the car's remote control recognises opening of doors recognises opening of boot or bonnet surveillance by additional sensors supplies negative to supplementaries as long as central locking is closed	yellow-green red black yellow-white grey-black pink violet blue	(+15) +12 ±3V (+30) +12 ±3V (-31) ground positive input negative input negative input negative input max. 0,2 A neg. output	to be connected to ignition plus (+15) via 7,5A-fuse to battery-plus (+30) to car's body , protect against oxidation to one of the direction indicator cables to the doors' ground-contact-switches to the contact-switch of boot or bonnet... to the sensor's negative alarm output to LED and to negative power-input of additional sensors, window closers,....

installation position

mount and fix the device tightly, far away from heat sources, mechanical moving parts, high voltage elements,



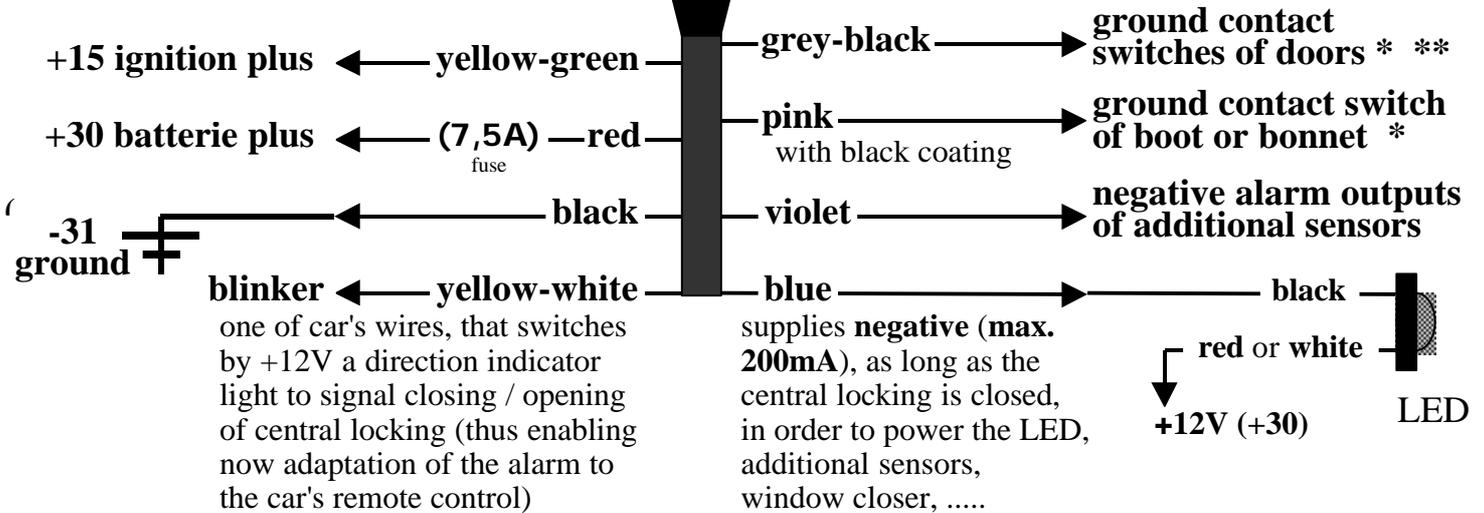
wiring connector to be clipped tightly with wiring-plug

cover of wiring socket to be fixed tightly.

NOTE: Protect alarm-unit against water in case of washing with high pressure machine.

NOTE: *ground contact switches supply negative as long as door or boot is open.

NOTE: **Some cars require single connection to each contact-switch, with each connection to be separated by diode from the other



ADAPTATION OF ALARM TO CAR'S REMOTE CONTROL

- (1) Switch OFF alarm device by emergency key
- (2) Switch ON ignition (+15)
- (3) Switch ON alarm device by emergency key: 1 beep confirms
- (4) switch OFF ignition (+15): 1 beep confirms
- (5) CLOSE central locking BY REMOTE CONTROL: 3 beeps confirm activation of alarm device
----- 2 - 3 seconds afterwards:-----
- (6) OPEN central locking BY REMOTE CONTROL: 1 beep confirms deactivation of alarm device
[Take your seat, shut the doors, and switch ignition on and off.]

**The remote control of car's central locking
now switches on and off the alarm device simultaneously, too**

ARMING THE CAR ALARM

Close the car's central locking by its remote control.

The car alarm confirms by flashing LED (and by 3 beeps) to have been activated now.

After a inhibition time of 30 seconds the car alarm is armed.

FUNCTION TEST: During this inhibition time each surveillance sensor can be tested, since its triggering (for example by opening door or bonnet) will be indicated by a beep.

IMPORTANT: It is not possible to arm the system, as long as the blinker (for example the parking light function or emergency hazard) is switched on.

DISARMING THE CAR ALARM:

Open the car's central locking by its remote control.

The car alarm confirms by switching off its LED (and by 1 beep) to have been deactivated and disarmed.

NOTE: Alarm-memory: In case the alarm has been triggered in an armed period (and not been switched off by emergency key), this will be indicated now by a quicker 4 beep sequence

NOTE: A delay of 2 - 3 seconds between arming and disarming operations is advisable.

NOTE: In any case of emergency the car alarm can be disarmed by **emergency key**.

SWITCHING OFF THE SIREN-ALARM BY EMERGENCY KEY

In case alarm is triggered and siren is still signalling alarm, this siren sound can be switched off only by switching OFF the car alarm by emergency key.

In order to disarm now the car alarm definitively, after switching it ON again by emergency key, now open the car's central locking by its remote control.

Exclusion of beep signals:

1. Switch OFF the car alarm by emergency key
2. Switch ON ignition (+15)
3. Switch ON the car alarm: 1 beep confirms
4. Switch OFF the car alarm: 1 beep confirms
5. Switch ON the car alarm: 1 long beep confirms

From now on, the arming and disarming will not be indicated by beep-signal.

Reactivation of beep signals:

1. Switch OFF the car alarm by emergency key
2. Switch ON ignition (+15)
3. Switch ON the car alarm: 1 beep confirms
4. Switch OFF the car alarm: 1 beep confirms
5. Switch ON the car alarm: 1 long beep confirms

From now on, the arming and disarming will be indicated again by beep signals.

installation

date:

by:

TECHNICAL CHARACTERISTICS

activation and inhibition time	30 seconds
alarm duration	30 seconds
alarm cycles	10
recycling time	5 seconds
trigger delay	4 seconds
power consumption disarmed	7 mA
armed	11 mA
alarm triggered:	0,8 A
power supply	12 V dc ($\pm 1V$)