

Shock detector CA-540

v.1.0

Description

This detector is sensitive to mechanical vibrations and it is suitable especially for car protection. Build-in two stage digital filter provides high resistivity to false alarms. Sensitivity of this detector is wide range adjustable. Build-in LED makes sensitivity adjustment and testing easy.

Function of digital filter is, that the first triggering vibration is only stored to the memory. Then the sensor is not sensitive for one second. If there is any other vibration after this pause, the detector output will be activated (closed to the ground). But if the first vibration was only an accidental one (wind blow, thunder etc.) the memory will be reset after 16seconds automatically.

Specifications

vibration sensor	piezoelectric
voltage	9 - 16V DC
stand-by consumption	4mA
output	max.100mA - negatively triggered transistor
working temperature	-30 to +70°C

Installation:

Fix the detector on the metal body of a car with the adhesive tape (the place must be dry).

Wiring:

There are only three wires to connect:

- red** - connect to +12V
- black** - connect to ground
- white** - negatively triggered output (switching transistor, max.100mA) - connect to corresponding input of the car alarm.

Testing:

Wait ten seconds after you connected power to the detector. Knock to the car body and see reaction of the detector's LED. When it lights dimly, the first vibration was stored to the memory. Full light indicates that output was triggered (after the second vibration). Set the sensitivity of sensor with a screwdriver if necessary.



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