RVsecure

RVsecure Protector Zero Installation and Operating Manual

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The Protector Zero is a unique alarm system in that it draws no current whilst in standby. Standby includes armed and disarmed states. The Protector Zero is powered by a standard 9v battery (not included).

System Installation

This installation guide assumes that you already have experience in installations. If in doubt please have a professional installer complete the installation for you.

Tools you will require
- Electric Drill
- 12mm drill bit
- 8~8.5mm drill bit
- Automotive crimpers
- Wire cutters/strippers
- Soldering iron
- Phillips head screw driver
- Allen key set

Other consumable items that may be required
- Silicone suitable for outdoor exposure
- Cable for wiring PIN/Reed switches past 2m from control unit
- Cable ties
- Screws
- Solder

Mounting the Control unit
The control unit can be mounted in any location within the area to be protected. It is a good idea to firstly check the cable length for the strobe (if not using extensions) and decide the strobe, key switch and control unit positions based on this and the ability to run the cables.

The Control unit is attached with 4x suitable screws on the end plates. Mounting the control unit outside or to the underside of the vehicle is not recommended.

The Control unit is not waterproof and must be mounted in a protected area.

Wiring
All wiring for the alarm system must be contained within the alarm zone, ie to access wiring one or more switches must be activated. This is to protect the alarm system from tampering.

Installing the on/off key switch
The on/off key switch is installed so it can be accessed without activating a PIN/Reed switch. Drill and mount the switch in a suitable position. Solder the red and black loom cables to the rear of the key switch.

Installing the Strobe
The strobe is an external blue warning strobe and comes as a "plug n play" unit. Once installed simply plug it in to the control unit.

1. Drill a 12mm hole to allow for the cable and plug to run through
2. When in position, drill the holes for the two fixing screws
3. Apply silicone sealant to the rear of the strobe and then mount and screw the strobe
4. Apply silicone sealant around the surround to ensure it is water tight
5. Plug the strobe into the control unit

Strobe extensions (3m and 5m) are available if required.

As with any external item fitted be generous with the amount of silicone applied to ensure it is water tight. All external fixings / silicone's should be inspected bi annually at a minimum to ensure there continued function and water seal.

Installing the Siren

It is recommended that the siren be mounted near to the control unit. Its operation will not interfere with the unit. The siren is waterproof so it can be mounted outside of the vehicle however it is perfectly OK to mount inside. Once a position has been chosen screw the siren bracket into the surface and plug the siren into the control unit.

Installing PIN switches

The PIN switches are installed so that opening of door, lid, hatch etc closes the switch. Installing directly into the frame required the drilling of an 8mm hole for mounting. Additional brackets are included should frame mounting not be possible or practical. Ensure that the mounting position will close the switch when the door is opened. Adjustment is made by altering the height of the switch.

There are two electrical connections to be made to the switch. The ring connector is used for the grounding and connected to the green wire, the spade connector is connected to the brown wire. Additional switches can be used if added in parallel to the first (do not connect in series). Ensure that the ground and centre connector are not crossed when wiring additional switches as this will activate the alarm.

Installing Reed switches (optional)

The reed switches are installed with the magnet half on the door and the wired half on the frame/wall. They do not need to be touching, a distance of 1~3cm will generally be suitable however it is important to test this before permanent mounting. The reed switch must be wired to the common and the N.O. connection on the reed switch.

When mounting the outer cases of both the magnet and the sensor can be removed to allow screw connections, or suitable bonding agents can be used. Consult the manufacturers advice regarding the use of bonding agents.

Arming the system

The system is armed with the key switch. Turn the key switch to the "on" position
If the alarm control unit beeps (5 times) then there is a zone (reed/PIN) that is not closed and ready to arm. If not turned off after the 5 beeps the alarm will activate and the siren will sound/strobe will flash. Rectify the zone error and then rearm the system.

Disarming the system

The system is disarmed with the key switch. Turn the key switch to the "off" position

Installing the Battery

Remove the battery cover using a hex key. Insert A 9v battery and re-secure the cover.
For correct operation of this system please install a heavy duty alkaline 9v battery. Rechargeable 9v batteries are not suitable.
**Use of Energiser EN22 Industrial or Duracell Plus are highly recommended.

Checking the battery level

Press the button located on the side of the unit to check the battery. If the LED lights that the battery voltage is OK. If the LED does not light then the battery requires replacement.

Key features of Operation when in Alarm

Siren
- When alarm activated the internal buzzer will initially sound as a warning, then the siren will sound for 10 seconds and reset. If activated again, siren will sound for another 10 seconds then reset. There is a maximum of 4x siren activation's then the siren will not resound until another arm/alarm sequence. The alarm will fully turn itself off after 10 minutes since the last activation. The counter will reset at this point.

Strobe
- When alarm activated the strobe will run for 30 seconds. After 30 seconds it will go into power save mode, this will mean it is on for 1 second and off for 5 seconds. The alarm will fully turn itself off after 10 minutes since the last activation and the strobe will go off. The counter will reset at this point.

Specifications

EAN Number	
Operating Voltage	Powered by 9v DC battery
Operating Temperature	-20 to 60 DegreesC
Humidity	Max 85%
System current draw in Standby	0A
Max system current draw	0.5A @ 9v DC

Warranty

The statutory warranty period applies. If the product is defective please contact the retailer that you purchased it from for initial assessment and to process the RMA claim.
For any repair and guarantee processing, the following items are required:
1/ Defect component(s)
2/ Copy of receipt with purchase date
3/ Reason for claim or description of the fault
4/ Contact details of claimant
The manufacturer will at its sole discretion repair, replace or refund if it is agreed that the purchased item or sub-component part is faulty.

Liability

1/ tech7/RVsecure accepts no liability for damage done either to the unit itself, its sub components or to the vehicle due to owners incorrect wiring. If in doubt please consult a professional.
2/ tech7/RVsecure accepts no liability for any theft of any property, vehicle or other.
3/ where braking circuits are fitted tech7/RVsecure accepts no liability for any damage to any property, vehicle or other due to the operation of the braking circuit (ifconnected) at any time or under any condition.

Maintenance

Any alarm system requires ongoing testing and maintenance to ensure that it is in top operating condition and to reduce the chances of false alarm. We recommend the following maintenance schedule:

Monthly
Check sensors and control unit physically OK with visual inspection.

Annually
Full alarm test including activation of all zones

PIN Switch

Our PIN switches are strong and made to last.
PIN switch – 8mm mounting hole, strong plunger that wont bend as some others do.
They come in a pack of 3 and include connectors.

Suitable for: Platinum, Protector, Zero, Defender

SKU: RVS_PINSW

PIN Bracket

Our PIN switch mounting brackets help with mounting PIN Switches in difficult areas.
Brackets – Stainless Steel, powder coated with an 8mm hole for the PIN switch
They come in a packet of three

SKU: RVS_PINBR

Wired Reed Switch

Wired reed switches are used for doors, hatches etc. They activate the alarm when separated.
They come in a packet of two.

Suitable for: Platinum, Protector, Zero, Defender

SKU: RVS_REEDNO