

AccentroniX

Cellswitch V1

Cellular Interface Products



Hardware Interface Description

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Introduction

The Cellswitch enables a user to control any electronic device via his/her conventional cell phone by sending a simple sms message. It can also be used to notify the user with an sms message if an alarm or event triggers one of its inputs.

The Cellswitch is an electronic switch/relay that is controlled by sending a text message from your cell phone to the device. The unit operates in three modes. The first mode enables the user to remotely control any electronic device via a normal cell phone. The second mode is used to notify the user by sending a sms to up to three different numbers when it is triggered and in the third mode, the attributes of Mode 1 and Mode 2 are combined.

SIEMENS Mobile technology is used in this unit for over-the-air communications. A micro controller controls the inputs, outputs and the gsm module.

An activated sim card with a unique cell number is already incorporated into the module. It is loaded with a special Vodacom airtime voucher allowing it to be active for a period of at least 2 years from the date of purchase. Even if there is no activity for two years, the airtime will not expire within this period. An additional R265 worth of sms's are also included with this voucher. More airtime can be loaded by calling toll-free 111 from a Vodacom cellphone and following the instructions.

Application suggestions

- Remote gate/garage opener – Program the Cellswitch number to the speed dial 1 button on your cell phone and open the garage or gate by simply pressing and holding the 1 button. The cell phone will dial the Cellswitch, open the gate and be disconnected automatically again. It will not cost a cent. This is useful where a large number of gate remotes must be handed out, reducing the overall cost.
- Activate/deactivate or retrieve the status of an alarm system from anywhere - An alarm system can be activated or deactivated by simply sending a sms containing a '1' for ON or a '0' for OFF to the device. By sending a '11' or a '00', the device will also reply with a confirmation sms. If you need to know whether the alarm is set or not, send a '?' to the Cellswitch and it will reply with the current status.
- The Cellswitch can notify you if an alarm or event triggers it – Program a notification message and up to three different cell numbers to be notified if a certain event triggers one of its inputs.
- This unit can also be used as a vehicle tracker device. Subscribe to the "Find Me" package from Vodacom, and be able to track your vehicle to an accuracy of up to a 300meter radius. You can be notified via a sms if the car alarm went off and you will also be able to disable the vehicle by simply sending a sms.

Product overview

The Cellswitch operates in three modes. The modes are factory programmed and are selected when the product is ordered.

Mode 1:

The 5A relay is switched ON by sending a '1' in a sms message to the designated cell number of the Cellswitch. By sending a '0', the relay will be switched OFF.

SMS Control commands:

- '1' – Switches the relay ON.
- '0' – Switches the relay OFF.
- '11' – Switches the relay ON and the Cellswitch will reply with a confirmation message.
- '00' – Switches the relay OFF and the Cellswitch will reply with a confirmation message.
- Missed call – By calling the Cellswitch, the relay will be switched ON for one second and then off again. The call is disconnected automatically.

SMS Programming commands:

- 'A1' – Programmes the Missed call command to switch the relay ON for one second and then OFF again. (Factory default)
- 'A2' – Programmes the Missed call command to latch the relay ON if a missed call is received and OFF if another missed call is received.

Mode 2:

In this mode a user is notified via a sms message if an alarm or event triggers the input of the Cellswitch. Up to three different cell numbers can be notified if a trigger occurs.

SMS Control commands:

- '1' – Switches the relay ON and the Cellswitch will reply with a confirmation message.
- '0' – Switches the relay OFF and the Cellswitch will reply with a confirmation message.

SMS Programming commands:

- 'P1' – Send this command from the first cell number that you wish the Cellswitch to notify.
- 'P2' – Send this command from the second cell number that you wish the Cellswitch to notify.
- 'P3' – Send this command from the third cell number that you wish the Cellswitch to notify.
- 'M1xxx xxxx xxxxx' – This command programmes the first message that will be sent to the programmed cell numbers. Replace the xxxx with the message.
- 'M2xxx xxxx xxxxx' – This command programmes the second message that will be sent to the programmed cell numbers.
- 'D1' – Deletes the first programmed cell number.
- 'D2' – Deletes the second programmed cell number.
- 'D3' – Deletes the third programmed cell number.

Mode 3:

In this mode the user has full control of sending and receiving of messages. Relays can be switched ON and OFF, with or without confirmation and the Missed Call function is also enabled.

The user is also notified via a sms message if an alarm or event triggers one of the inputs of the Cellswitch. Up to three different cell numbers can be notified with a programmable message.

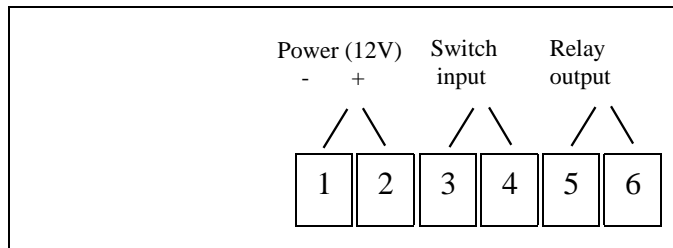
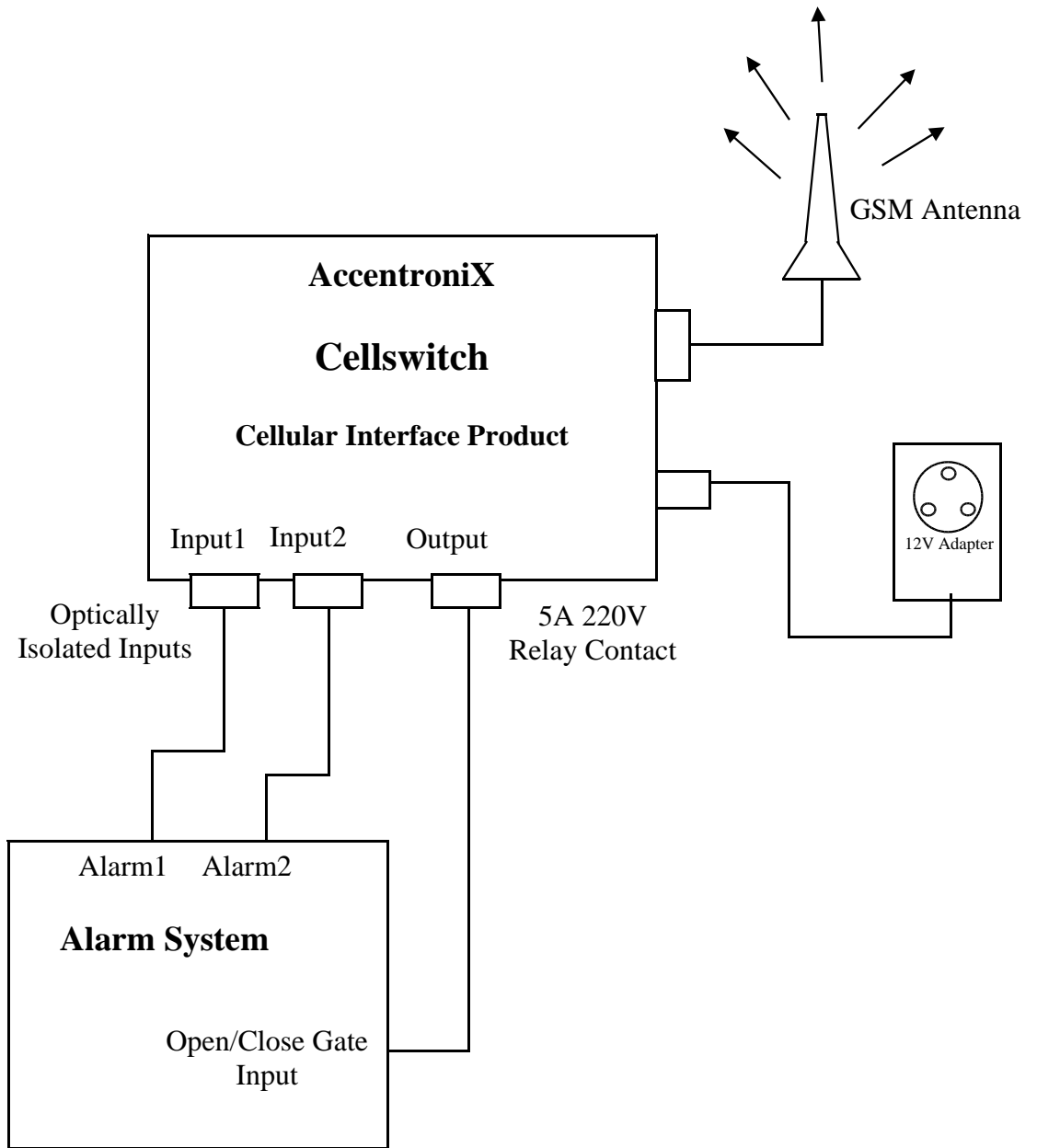
SMS Control commands:

- '1' – Switches the relay ON.
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SMS Programming commands:

- 'P1' – Send this command from the first cell number that you wish the Cellswitch to notify.
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- 'D1' – Deletes the first programmed cell number.
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- 'D3' – Deletes the third programmed cell number.

Application interface



Connections