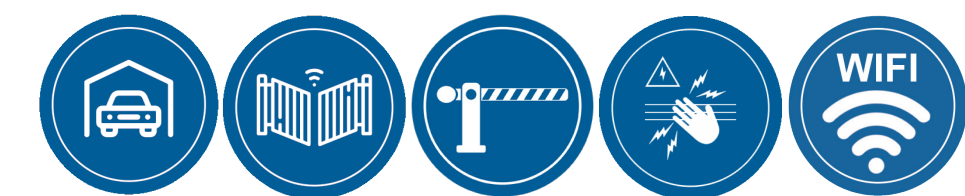# ACCENTRONIX

Cellswitch INFINITY

NEW: LTE/4G & Bluetooth & WiFi

Smart Access Control System

With Bluetooth for access control

Integrated NICE receiver for

We provide the latest technology in access control and security for your home and business.

MONITORING & CONTROL

General Features

- **NEW ACCESS CONTROL FEATURE : License disk scanner**. Fully intergrated with our access controll system. Monitor and manage visitor access.
- **NEW FEATURE** Control your device via **Bluetooth** if you are close by. The app will automatically connect via Bluetooth if mobile network is experiencing problems.
- **NEW FEATURE :** Integrated **NICE receiver**.
- Single sim (Vodacom or MTN) with all airtime, data and premium features included for 1 year. No activation and registration fees. Simply install the device and start using it.
- Unlimited alerts and control with our Accentronix Smart Home app.
- Monitor gate status and alarms as well as battery voltage.
- Get access control notifications.

Smart Remotes & Tags

- Managing remotes couldn't be easier with the built-in NICE cloud-link receiver.
- Have full control over your tags by connecting an Accentronix MIFARE Tag Reader to your device.
- Monitor, manage and block remotes, tags and users.
- Restrict access for domestic, gardening and security services to specific days and times.
- Effortlessly bulk learn remotes and tags off-site.
- Complete log reports.
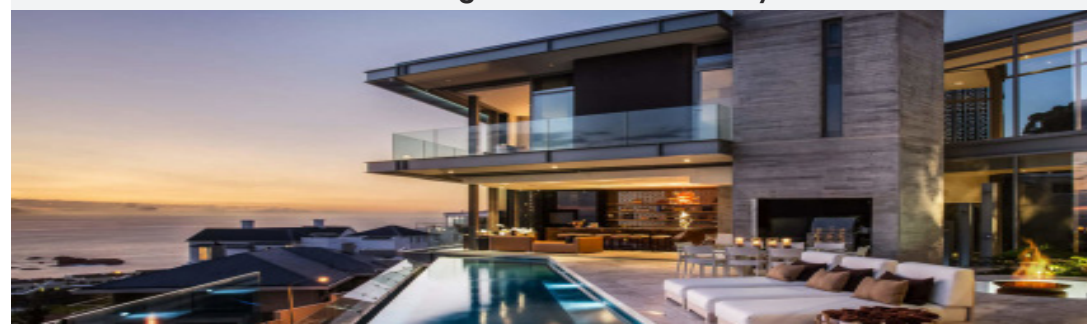- Replaces old tag readers and receivers.

Access Control

- Feature-rich, easy to use website for centralized management.
- Access control for up to 10 000 users by using the Accentronix Smart Home app, Bluetooth, missed-call, NICE remotes, Tags, please-call-me or SMS.
- **Visitor control with One-Time-Pin** using wired keypad.
- Guest house and restricted time-based access control for domestic and gardening services.
- Daily peak-hour gate open/close timers with a calendar for inactive days including Public and School Holidays.
- Detailed access control reports.
- Welcome sms's to new residents. This message includes specific instructions and a link to download the app.

Electric Fence Monitoring

- Seamlessly connects directly to the energizer's keypad data interface.
- **Advanced integration with all popular brands and models.**
- **Monitor and control the energizer** with buttons on the app, missed-call or SMS.
- Monitor fence health, alarms and battery voltages. *Fence voltages on certain models only.
- **Automatically switch the energizer to high/low voltage or turn it on and off during certain times and days.**

INSTALL YOUR DEVICE IN 5 SIMPLE STEPS

1. Create an account and then download the Accentronix Smart Home app onto your phone. (REMEMBER to add your admin account log-in details in the 'admin account' section on the App to be able to access all the setup features)
2. Connect the antenna and 12 or 24VDC (max 32V DC) to the device and wait for the green LED on the device to start flashing slowly.
3. Go to 'Register Device' and enter the cellphone number, give the device a name and click on 'Register'.
4. Select 'Access Control' and add your name and mobile number in the access control list, then click on 'Update Device'.
5. Control the device with the buttons that will automatically appear in the app. You can also control the device by giving it a missed-call.

Notes:
- Installer-mode is activated while the device is not registered, which means that anyone can call the device to open the gate for commissioning purposes.
- A welcome SMS containing instructions is sent to each new user whenever they are added to the system.*

NICE REMOTES
HOW TO LEARN A REMOTE
1. The Cellswitch Has a built-in NICE receiver.Go to the 'Remotes' tab next to a user.
2. Click on 'Quick learn remote' and press any button on the remote 3 times.
3. Press 'Update device' after adding remotes and users.

You do not have to be on-site to learn a remote. Simply change the 'gateway' option to the device you are the closest to. This allows you to add remotes to a site while you are on a different site.

KEYPAD
HOW TO CONNECT A WIRED KEYPAD
- Up to 3 wired keypads can be connected directly to the device.
- Wired keypads do not require batteries and have illuminated buttons.
- Cable length can be up to 50 meters long.

Wired Keypad

Note: Remember to enable the 'Visitor Keypad Access Code' option. If enabled, residents can press * or # followed by their unique access code.

LICENSE DISK SCANNER
FULL ACCESS CONTROL INTEGRATION
- Driver's License Photo extraction.
- Direct outgoing calls from the scanner.
- Take photo's of ID, vehicles and passengers.
- Detailed log reports containing Driver License Photo and Vehicle information.
- Hassle-free as the Sim and Airtime is fully managed by Accentronix.
- There is a once-off fee for the hardware followed by a monthly or yearly subscription, based on the chosen plan.

VISITOR ACCESS ONE-TIME-PIN
External keypads are used for access control and visitor OTP features. A resident can use our app to invite guests. The guests will receive a sms or whatsapp with a pin code that they can use at the gate.

HOW TO INVITE A GUEST USING THE APP
1. Firstly install the app from your app store.
2. Devices that is linked to the residents mobile number will automatically appear in their app.
3. Click on the invite guest button to add visitors.
4. Visitors can be restricted to one entry and one exit or access for the whole day.
5. The visitor will receive a sms or whatsapp containing their OTP as well as instructions and a google maps link to the property.
6. As soon as the visitor uses the OTP the resident will immediately receive a notification.
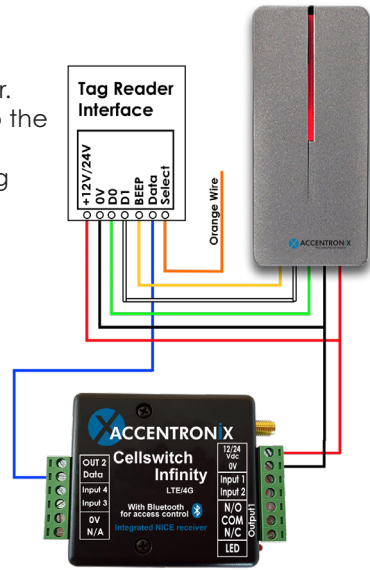
ACCENTRONIX TAGS

HOW TO LEARN A TAG
1. Go to the 'TAGS' tab next to a user.
2. Click on 'quick learn TAG' and tap the tag on the reader.
3. Press 'Update device' after adding tags and users.

Tag Reader Interface

+12V/24V
0V
DO
BEEP
Data
Select
Orange Wire

Notes:
- You do not have to be on-site to learn a tag. Simply change the 'gateway' option to the device you are the closest to. This allows you to add tags to a site while you are on a different site.

HOME AUTOMATION

Create custom buttons to control your lights, geyser, irrigation and swimming pool pump. Monitor alarms, water tanks and even your aquarium water level.

HOW TO CREATE CUSTOM BUTTONS ON THE APP
- Default buttons will automatically appear according to the application type you selected when you registered the device.
- Customize names and commands of the buttons in the button section.
- You can even set a button to control multiple outputs at the same time i.e. "All lights off".
- Expand the system by connecting an 8in/8out Expansion board.

HOW TO CONTROL YOUR ALARM PANEL
- Arm, disarm and monitor your alarm by connecting the device directly to your alarm panel. See our online "How to" section for connection diagrams and instruction on the most popular alarm panels.

HOW TO SET THE DEVICE TO BE A STAND ALONE ALARM SYSTEM
- Simply enable the "Alarm mode" option in the general setup section. You will now be able to arm and disarm Input 1 to 3 of the device for monitoring alarm and door sensors. Input 4 is used for a panic button.
- Connect a siren to Output 1 and a status LED to Output 2.
- Arm and disarm by using the app, remote, tag reader or keypad.
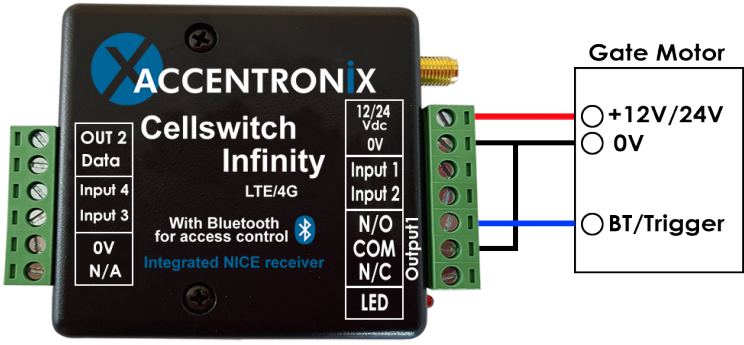- Remote buttons can be configured to arm/disarm, open a door and panic.

Inputs, Outputs & Power Supply

- 12Vdc to 24Vdc @ Idle: 100mA, Max: 2Amp (**we recommend connecting the device directly to the battery** as LTE/4G devices draws much more current than 2G devices as it may draw up to 2 Amps in short pulses.) Refrain to connect the device to the gate AUX output as it will cause power issues.
- 4 inputs and 2 outputs.
- **Output 1** has an integrated relay. (Max 2 Amp @ 50V DC).
- **Output 2** is an open collector output which can be connected directly to the gate trigger (max 1 Amp @ 32V DC).
- **Custom commands and buttons can be setup on the app to control the outputs.**
- **Input 1 to 4** is triggered high by applying 12 or 24VDC to the input.
- Input trigger alert messages can be customized online.
- Energizer keypad data interface.
- **Bluetooth enabled.**
- Dimensions: 76 x 66 x 28mm

Connection to Gate

The Cellswitch Infinity has an integrated NICE Receiver.

The device can also be controlled via Bluetooth by using the App from up to 15 meters away - direct line of sight.

Gate Motor
- +12V/24V
- 0V
- BT/Trigger

ACCESS CONTROL
TIPS & FEATURES

- Two or more devices can effortlessly be linked together over the cloud to appear as one device. This allows you to manage multiple devices connected to the entrance, exit and pedestrian gates as one.
- A device can be linked to multiple accounts and different user levels can be assigned by the owner.
- Use the output timers to automatically open the gate during peak-hours but keep them closed during weekends and Public and School Holidays.
- Connect the entrance or exit loop through Output 1 to ensure a car must be at the gate before allowing access.
- A missed-call on sim 1 will control output 1 by default.
- Output 1 and 2 timers can be used to activate a mag-lock or activate entrance and exit loops for an allocated time.
- Set the integrated output timers to trigger the exit loop for 120 seconds to allow for enough time for a visitor to reach the exit gate.
- Connect a Mag Lock directly to Output 1 (n/c) and (com)terminals of the integrated relay and set the integrated output delay timer to 10 seconds.
- Connect Output 2 directly to the pedestrian trigger. Output 2 is an 'open collector' output which means it gives 0V to whatever it is connected to while it is switched on. To drive heavier loads, connect the one end of the coil of an external (12/24V DC coil) relay to 12/24V DC and the other end of the external relay's coil to Output 2. If Output 2 is switched on, it will supply 0V to the relay and turn it on.
- Default SMS commands: On, Off, Pulse, On2, Off2, Pulse2, Status. These commands will only work if your mobile number is loaded onto the access control list.

- NOTE: When connecting the Status and Alarm outputs of an NICE Gate controller to Input 1 and 2, you need to connect a **10K resistor** between 12/24Vdc and Input 1 as well as a resistor between 12/24Vdc and Input 2.
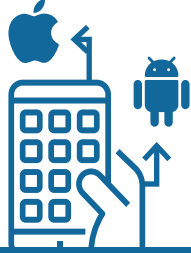

Using the App
- Control your gate and garage with a push of a button. The app will automatically pair and connect via Bluetooth if you are near the device.
- Use the app to invite a visitor with an OTP and receive unlimited alerts and notifications.
- Devices and buttons will automatically appear for any resident whose mobile number is linked to the system. Residents will however not be able to make any changes to the system or be able to invite a guests if these features are not enabled by admin.

Download Our App

- Press and hold a button for one second to activate.

App admin levels
- Different levels of admin privileges can be assigned depending on whether you are the owner, access control administrator or a resident.
- Installers can use the app to set the device up, add and edit control buttons, check status and test the device on site. Installers and admin need to link their account in the 'Admin Account' section in the app to enable them to make changes.
- As a backup service, you will receive alerts by normal SMS if your phone temporarily lost its internet connection. You will also be able to control the device by normal missed-call from within the app while you are offline.*
- All residents needs to download the Accentronix Smart Home App free of charge.

Trouble Shooting

- This device contains very sensitive electronics and is susceptible to interference cause by electric motors, electric fences, high voltage cabling and other devices that emit electromagnetic inteference. We highly recommend installing the device as far away from any such sources as well as doubling up on 12/24Vdc power cables that supply the device.
- **The antenna and coiled-up antenna wire must NOT be close to the device itself or any other cabling as this will cause interference issues.**
- During power-up and after an update the GREEN LED will be solid for a few seconds.
- The GREEN LED start flashing fast when the device registers on the GSM network. After the device is successfully logged onto the cloud the LED will flash slowly. This can take up to a minute.
- If the GREEN LED stay solid or keeps on flashing fast for more than 5minutes, the sim cannot connect to the internet. Move the antenna to a higher position and check the signal strength. Minimum recommended signal is 14. Max is 31.
- Make sure the antenna is vertically mounted, not inside a metal enclosure or close to any metal.
- To check the status, voltage and signal, sms **1234.status** to sim one.
- The RED LED shows the on/off status of Output 2 as well as various error codes. If connected to an energizer, a flashing RED LED indicates communication with the keypad data connection.
- If you do not have the app installed on your phone, or if your phone lost its internet connection, you will receive alerts by sms as a backup (max 30 sms's per month).
- Contact support on 087 550 3479 7 days a week for fast and friendly service or go to our online HELP section for more info.

Bluetooth and Wifi Connection

- Bluetooth for Access Control when mobile networks are down
- Control your device via Bluetooth when you're nearby
- App automatically connects via Bluetooth if the mobile network is down
- Fast and reliable 4G/LTE and WiFi for connectivity

*Please see website for terms and conditions and fair usage messaging policy.

*Included sim cards and Free sms'ses for South Africa only.