





SWING GATE OPERATORS

There is virtually no limit to the capabilities of our swing gate operators; combining industry-leading functionality, world-class reliability and ease of installation, Centurion Systems' swing gate operators truly are in a league of their own. We have even given special attention to aesthetic value, ensuring that your gate operator is as good-looking as it is dependable.



SWING GATE OPERATOR QUICK SELECTION GUIDE

This quick selection guide will help you to select the perfect CENTURION for you or your client's swing gate by providing the differentiating features and key specifications of each.



	VERT-X	
Input voltage ¹	90V - 240V AC	
Maximum gate leaf width for corresponding gate mass	1.5m - 600kg	
	3m - 150kg	
Typical gate opening time	11 sec	
Maximum daily operations	250	
Onboard multichannel receiver	✓	
Interface type	LCD	
Automatic beam test	✓	

1. Can operate off a solar supply, consult Centurion Systems for assistance



	VANTAGE 400	VANTAGE 500
	90V - 240V AC	90V - 240V AC
	2m - 500kg	2m - 750kg
	4m - 200kg	4m - 310kg
	<14.3 sec	<17.8 sec
	250	250
	✓	✓
	LCD	LCD
	✓	✓



VERT-X LINEAR SWING GATE OPERATOR

With such striking, rugged good looks, the **VERT-X** linear swing gate motor for domestic gates is more than just a pretty face.

Combining an innovative open-nut drive system, advanced diagnostic capabilities and functionality, rugged die-cast aluminium construction and exceptional aesthetics for a wholly unobtrusive installation, **VERT-X** is positioned firmly at the apex of swing gate automation.



MAIN FEATURES

Mechanical Features

- Battery backup for uninterrupted operation during power failures
- Open-nut drive system and rugged die-cast aluminium construction for reliable operation
- Wallbox includes LED Gate Status Output and reliable anti-tamper indication
- Supports inward- and outward-opening gates without needing mechanical endstops
- Intelligent speed control - high-speed for greater security and convenience; slower speed for increased safety
- Robust and durable construction extends operating life of the system
- In-line design for improved aesthetic appeal

Electronic Features

- Onboard gate lock relay – can be configured to provide either a normally-open or normally-closed output, AC or DC
- Safe anti-crushing protection for greater safety – keep your children, pets and vehicles out of harm's way
- Automated limit setup for double and single swing gates
- Fail-safe opto-electronic position and collision detection system ensures maximum safety
- Exceptionally easy system setup via LCD user interface
- Diagnostic screens indicating:
 - Battery-low
 - Battery charge level
 - Fuse blown

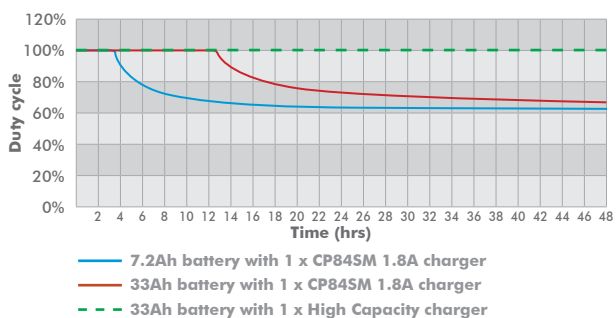
- High current draw
- Details of the last transmitter activated
- Health of the drive electronics
- Currently activated gate inputs
- See Diagnostics Made Easy booklet for further details
- Full position control obviates the need for endstops and makes the system quick and easy to install
- Multiple operating features including Intruder-detection Alarm Modes (a world first)
- Onboard CENTURION code-hopping multichannel receiver with selective add and delete function operate a multitude of functions; for e.g. operate gate, switch on Pillar Light, Pedestrian Opening, etc.

TECHNICAL SPECIFICATIONS

Technical Data	VERT-X
Input voltage ¹	220V AC $\pm 10\%$, 50Hz
Motor voltage	12V DC
Motor power supply ²	Battery-driven (standard capacity - 7Ah)
Battery charger ¹	CP84SM - 1.8A @ 13.7V
Current consumption (mains)	170mA
Current consumption (motor at rated load)	3/13A
Current consumption (quiescent load)	70mA
Operator push force - maximum	220kgf
Operator stroke	320mm
Maximum leaf width for corresponding gate mass ³	2m/335kg
	3m/150kg
Gate opening time - typical	11 sec
Maximum daily cycle	250 cycle/day
Design life	150 000 cycles
Operations in standby with standard battery ²	
Half day	120 cycles
Full day	100 cycle
Collision sensing	Electronic
Operating temperature	-15°C to +50°C
Degree of protection	IP55
Controller incorporated	V-Series in separate wallbox
Onboard receiver type	NOVA code-hopping onboard, multichannel
Receiver frequency	433.92MHz
Receiver code storage capacity	60 transmitter buttons
Mass of unit packed	
Single kit	10kg
Double kit	18kg
Packaging dimensions	
Single kit ⁴	Length: 1105mm x Width: 335mm x Height: 270mm
Double kit ⁴	Length: 1105mm x Width: 335mm x Height: 270mm

1. Can operate off a solar supply, consult Centurion Systems for assistance
2. Can increase battery capacity for longer standby times
3. To secure gate, a lock is recommended when gate is closed
4. Dimensions of the kit of components packed together

VERT-X single operator duty cycle as a function of operating time





CABLING REQUIREMENTS

1. 90V / 220V - 240V AC mains cable via mains isolator switch¹ (3 core LNE 1,5mm² SWA)², or low-voltage 15V - 19V AC cable via transformer in dwelling (3 core LNE 1.5mm² Surfex)³

2. Master Motor (MTR M) or Slave Motor (MTR S) cable (minimum, 2 core 2mm² + 4 core 0,5mm² multi-stranded) see note⁶

Optional Wiring (all cable is multi-stranded):

3. Intercom, cable from control box to dwelling (n1⁷ + 6 core⁴ 0.5mm² multi-stranded) or cable from control box to entry panel (n2⁷ 0.5mm² multi-stranded)

4. Radio receiver cable (3 core 0,5mm² multi-stranded, optional)⁵

5. Pedestrian Keyswitch (2 core 0,5mm² multi-stranded) or optional keypad (3 core 0,5mm² multi-stranded)

6. Infrared Safety Beams or safety edge (3 core 0,5mm² multi-stranded or 4 core 0.5mm² for CE compliance)

7. Intercom cable (n2 + 2 core 0,5mm² multi-stranded) to gate station

8. Electric lock (2 core 1.5mm²)

9. Pillar Light cable (3 core LNE SWA, size according to power regulations)

10. Inductive loop detector for free-exit (1 core 0.5mm² multi-stranded - silicone-coated)

1. Mains isolator must be fitted less than 1m from controller

2. Increase cable thickness if Pillar Lights are to be installed

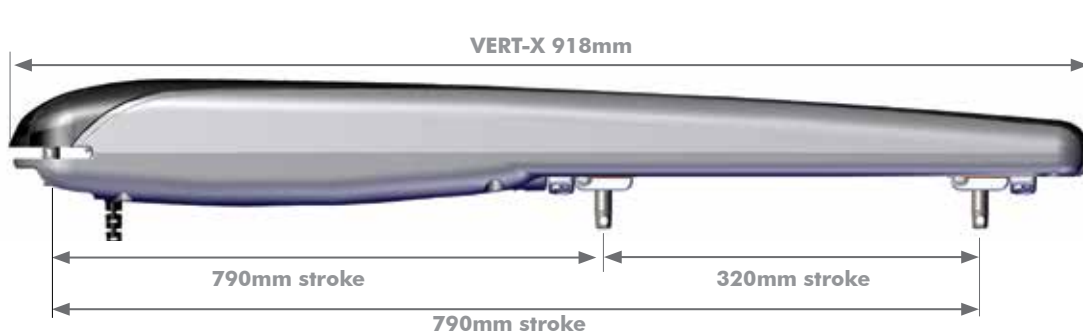
3. Screened cable is always recommended to provide better protection against lightning - earth one end of screening

4. Domestic charger only

5. For optimum range an external receiver can be mounted on the wall

6. CENTURION has available custom **VERT-X** cable order reference: CABLEVEC68

7. Number of cores required by the intercom



NOW YOU CAN ANSWER YOUR INTERCOM FROM ANYWHERE!



WIRELESS CONVENIENCE. ENDLESS POSSIBILITIES.

With the G-SPEAK ULTRA system, you can answer your intercom from anywhere, giving the appearance that you are always home.

This greatly enhances security and acts as a deterrent to would-be intruders while giving you mobile convenience and peace of mind at your fingertips.

You can even use the device to remotely open your gate or control other appliances around your home such as your sprinklers or house alarm.

With seamless integration with CENTURION gate motors, the G-SPEAK ULTRA enables you to always know what your gate is doing.



VANTAGE LINEAR SWING GATE OPERATORS

Boasting tough-as-nails die-cast aluminium construction throughout, a grade 304 stainless steel wormshaft for the ultimate in reliability and durability and with sophisticated electronics for smooth, safe operation, **VANTAGE** gives you everything you need to swing the future your way.

VANTAGE 400: Robust swing gate motor boasting tough-as-nails aluminium construction throughout for the ultimate in reliability and durability.

VANTAGE 500: Extended stroke for large domestic and industrial swing gates.



MAIN FEATURES

Mechanical Features

- Battery backup
- Linear actuator system for quick and easy installation
- Wallbox includes LED Gate Status Output and reliable anti-tamper indication
- Safe anti-crushing protection
- High push force to handle large gates and offer greater reliability in high-wind conditions
- Fast operating speed, with smooth acceleration and deceleration
- In-line design for improved aesthetic appeal

Electronic Features

- Onboard gate lock relay – can be configured to provide either a normally-open or normally-closed output, AC or DC
- Safe anti-crushing protection for greater safety – keep your children, pets and vehicles out of harm's way
- Quadra-drive technology – Soft Start and Stop and gate speed is adjustable in both directions
- LCD interface for exceptionally easy setup
- Diagnostic screens indicating:
 - Battery-low
 - Battery charge level
 - Fuse blown
 - High current draw

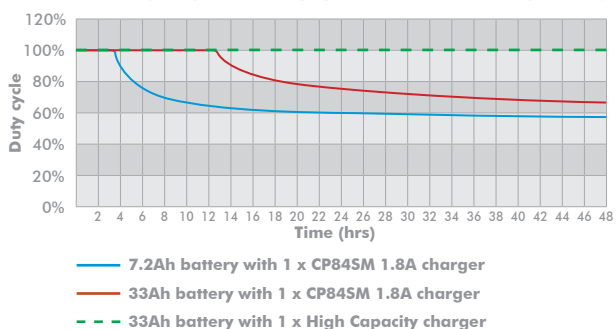
- Details of the last transmitter activated
- Health of the drive electronics
- Currently activated gate inputs
- See Diagnostics Made Easy booklet for further details
- Supports inward- and outward-opening gates without needing mechanical endstops
- Multiple operating features including Intruder-detection Alarm (a world first)
- Onboard CENTURION code-hopping multichannel receiver with selective add and delete - operate a multitude of functions; for e.g. operate gate, switch on Pillar Light, Pedestrian Opening, etc.

TECHNICAL SPECIFICATIONS

Technical Data	VANTAGE 400	VANTAGE 500
Input voltage ¹	220V AC $\pm 10\%$, 50Hz	220V AC $\pm 10\%$, 50Hz
Motor voltage	12V DC	12V DC
Motor power supply ²	Battery-driven (standard capacity - 7Ah)	Battery-driven (standard capacity - 7Ah)
Battery charger ¹	CP84SM - 1.8A @ 13.7V	CP84SM - 1.8A @ 13.7V
Current consumption (mains)	170mA	170mA
Current consumption (motor at rated load)	3/13A	3/13A
Current consumption (quiescent load)	70mA	70mA
Operator push force - maximum	220kgf	220kgf
Operator stroke	400mm	500mm
Maximum leaf width for corresponding to gate mass ³	2m/500kg	2m/750kg
	4m/200kg	4m/310kg
Gate opening time - typical	14 sec	17.5 sec
Maximum daily cycle	250 cycle/day	250 cycle/day
Design life	150 000 cycles	150 000 cycles
Operations in standby with standard battery ²		
Half day	100 cycles	80 cycles
Full day	80 cycle	70 cycle
Collision sensing	Electronic	Electronic
Operating temperature	-15°C to +50°C	-15°C to +50°C
Degree of protection	IP55	IP55
Controller incorporated	V-Series in separate wallbox	V-Series in separate wallbox
Onboard receiver type	NOVA code-hopping onboard, multichannel	NOVA code-hopping onboard, multichannel
Receiver frequency	433.92MHz	433.92MHz
Receiver code storage capacity	60 transmitter buttons	60 transmitter buttons
Mass of unit packed		
Single kit	10.5kg	11kg
Double kit	19kg	20kg
Packaging dimensions		
Single kit ⁴	Length: 1125mm x Width: 335mm x Height: 270mm	Width: 1105mm x Width: 335mm x Height: 270mm
Double kit ⁴	Width: 1105mm x Width: 335mm x Height: 270mm	Width: 1105mm x Width: 335mm x Height: 270mm

1. Can operate off a solar supply, consult Centurion Systems for assistance
2. Can increase battery capacity for longer standby times
3. To secure gate, a lock is recommended when gate is closed
4. Dimensions of the kit of components packed together

VANTAGE single operator duty cycle as a function of operating time





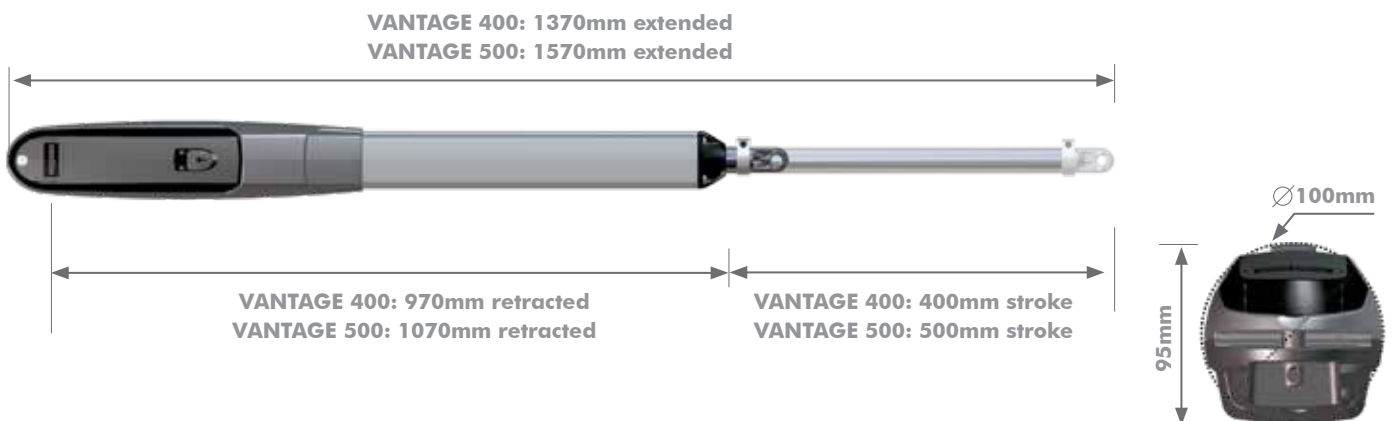
CABLING REQUIREMENTS

1. 90V / 220V - 240V AC mains cable via mains isolator switch¹ (3 core LNE 1,5mm² SWA)², or low-voltage 15V - 19V AC cable via transformer in dwelling (3 core LNE 1.5mm² Surfix)³
2. Master Motor (MTR M) or Slave Motor (MTR S) cable (minimum, 2 core 2mm² + 4 core 0,5mm² multi-stranded) see note⁶

Optional Wiring (all cable is multi-stranded):

3. Intercom, cable from control box to dwelling (n1⁷ + 6 core⁴ 0.5mm² multi-stranded) or cable from control box to entry panel (n2⁷ 0.5mm² multi-stranded)
4. Radio receiver cable (3 core 0,5mm² multi-stranded, optional)⁵
5. Pedestrian Keyswitch (2 core 0,5mm² multi-stranded) or optional keypad (3 core 0,5mm² multi-stranded)
6. Infrared Safety Beams or safety edge (3 core 0,5mm² multi-stranded or 4 core 0.5mm² for CE compliance)
7. Intercom cable (n2 + 2 core 0,5mm² multi-stranded) to gate station
8. Electric lock (2 core 1.5mm²)
9. Pillar Light cable (3 core LNE SWA), size according to power regulations)
10. Inductive loop detector for free-exit (1 core 0.5mm² multi-stranded - silicone-coated)

1. Mains isolator must be fitted less than 1m from controller
2. Increase cable thickness if Pillar Lights are to be installed
3. Screened cable is always recommended to provide better protection against lightning - earth one end of screening
4. Domestic charger only
5. For optimum range an external receiver can be mounted on the wall
6. CENTURION has available custom **VANTAGE** cable order reference: CABLEVEC68
7. Number of cores required by the intercom





WIND-LOADING SWING GATES

In this modern age of smartphone apps and genetic engineering, there seems to be very few things that we don't have total control over. A recent radio segment even spoke about how, in a couple of years' time, we'll be printing 3D vital organs, meaning that we may even some day have control over how long we live. But one of the few things that in all likelihood will remain beyond our control is the weather. When it comes to the weather, we are forever at Mother Nature's mercy.

For exactly this reason, it's important to ensure that your swing gate operator can weather the storm, so to speak.

As we mentioned in a previous article, swing gates suffer more resistance in their trajectory since they operate in multiple planes whereas sliders operate in only a single plane. One thing to keep in mind is that, the longer the gate leaf, the more susceptible it will be to unfavourable wind loading. This is simple physics, really.

The larger the surface area, the more impact an applied force will have.

VERT-X and **VANTAGE** range has been outfitted with a revolutionary centrifugal brake system that is able to withstand significant force in the opposite direction, such as might be exercised by wind. To help you get the most out of your swing gate system, we have created the table below indicating the maximum wind loading conditions for corresponding gate length under which your swing gate motor will still perform optimally. You'll notice that your A and B installation dimensions, as well as the percentage of coverage of the gate leaf, also play an important role when determining these values.

For a 25% covered gate: (Palisades, etc.) x 1.8m high

Value of A or B dimensions once ¹ installed	Up to 1.5m	Up to 2m	Up to 2.5m	Up to 3m ²	Up to 3.5m ²	Up to 4m ²
100mm	94km/h	48km/h	44km/h	41km/h	37km/h	37km/h
140mm	119km/h	65km/h	57km/h	51km/h	46km/h	46km/h
180mm	138km/h	78km/h	67km/h	60km/h	53km/h	53km/h
220mm	156km/h	89km/h	76km/h	67km/h	60km/h	60km/h
260mm	171km/h	99km/h	84km/h	74km/h	65km/h	65km/h
300mm	186km/h	108km/h	91km/h	80km/h	71km/h	71km/h
340mm	199km/h	116km/h	98km/h	86km/h	76km/h	76km/h

For a 100% covered gate: (Fully clad gates, etc.) x 1.8m high

Value of A or B dimensions once ¹ installed	Up to 1.5m	Up to 2m	Up to 2.5m	Up to 3m ²	Up to 3.5m ²	Up to 4m ²
100mm	47km/h	33km/h	24km/h	22km/h	20km/h	19km/h
140mm	59km/h	43km/h	32km/h	28km/h	26km/h	23km/h
180mm	69km/h	50km/h	39km/h	34km/h	30km/h	27km/h
220mm	78km/h	57km/h	44km/h	38km/h	34km/h	30km/h
260mm	86km/h	63km/h	49km/h	42km/h	37km/h	33km/h
300mm	93km/h	68km/h	54km/h	46km/h	40km/h	35km/h
340mm	100km/h	74km/h	58km/h	49km/h	43km/h	38km/h

1. An electric lock must be fitted

2. Refer to the V-SERIES installation manual for installation details



SWING GATE OPERATOR ACCESSORIES



CENTURION INFRARED SAFETY BEAMS

Always recommended on any gate automation installation to increase the safety of the automated system.



FLUX SA LOOP DETECTOR

Allows free-exit of vehicles from the property (requires ground loop to be fitted).



SOLAR SUPPLY

Alternative means of powering the system with our 20, 40, 60, 80, 120 or 150 Watt panels.



CENTURION NOVA TRANSMITTER

Incorporates ultra-secure code-hopping technology. Available in one-, two-, three- and four-button variants.



G-ULTRA GSM DEVICE

The ultimate new GSM solution for monitoring and activating electrical appliances via your mobile phone.



SMARTGUARD or SMARTGUARDAIR KEYPAD

Cost-effective and versatile wired or wireless keypad, allowing access for pedestrians.



POLOPHONE INTERCOM

Allows visitors to communicate with people inside in order to gain access to the property.



G-SPEAK ULTRA

Allows you to answer your intercom from anywhere.



SOLO/LATTICE PROXIMITY ACCESS CONTROL

Proximity reader for allowing access for both pedestrians and vehicles.



GOOSENECK

Steel pole for mounting intercom gate station or access control.



V-SERIES WALLBOX

A fully weatherproof wall-mounted enclosure for your V-SERIES operator's electronics, providing a neat and convenient central point of operation.



V-SERIES CABLE

Cable has been optimised for the V-SERIES range of swing gate operators to provide reliable operation time and time again.

OPTIONAL MOUNTING KIT AVAILABLE



VERT-X MOUNTING TEMPLATES

The optional mounting kit enables the installer to easily determine the installation values for optimum mounting of the Wall and Gate Brackets. The templates provide installation support for both inward- and outward-opening gates, and help to ensure that the geometry of the installation is correct and that there is sufficient clearance between the gate and the bracket.

SWING GATE OPERATOR KITS

SINGLE VANTAGE 400 or 500 KIT

1

Product Code: VAN4KITSLIND or VAN5KITSLIND

- **1 x VANTAGE operator including:**
 - Mounting hardware L
- **1 x Wallbox including: D**
 - 1 x Mains isolator
 - 1 x LED indicator board c
 - 1 x 2A Switch Mode charger H
 - 1 x V-Series Controller A
- 1 x 7Ah battery J
- 1 x Battery housing K
- 2 x 4 button CENTURION transmitters E

DOUBLE VANTAGE 400 or 500 KIT

1

Product Code: VAN4KITDLIND or VAN5KITDLIND

- **2 x VANTAGE operators including:**
 - Mounting hardware L
- **1 x Wallbox including: D**
 - 1 x Mains isolator
 - 1 x LED indicator board c
 - 1 x 2A Switch Mode charger H
 - 1 x V-Series Controller A
- 1 x 7Ah battery J
- 1 x Battery housing K
- 2 x 4 button CENTURION transmitters E

SINGLE VERT-X KIT

2

Product Code: VERTXKITSLIND

- **1 x VERT-X operator including:**
 - Mounting hardware L
- **1 x Wallbox including: K**
 - 1 x Mains isolator
 - 1 x LED indicator board c
 - 1 x 2A Switch Mode charger H
 - 1 x V-Series Controller A
- 1 x 7Ah battery J
- 1 x Battery housing K
- 2 x 4 button CENTURION transmitters E

DOUBLE VERT-X KIT

2

Product Code: VERTXKITDLIND

- **2 x VERT-X operators including:**
 - Mounting hardware L
- **1 x Wallbox including: D**
 - 1 x Mains isolator
 - 1 x LED indicator board c
 - 1 x 2A Switch Mode charger H
 - 1 x V-Series Controller A
- 1 x 7Ah battery J
- 1 x Battery housing K
- 2 x 4 button CENTURION transmitter E



1 VANTAGE



2 VERT-X



V-SERIES
controller

A



CP77 24V
controller

B



V-SERIES LED external
indicator board

C



V-SERIES
wallbox kit

D



CENTURION
NOVA transmitter

E



CP13E 24V
charger

F



800mA charger

G



2A Switch Mode
charger

H



7Ah
battery

I



33Ah
battery

J



Battery
housing

K



V-SERIES mounting
hardware

L



OUR DIGITAL AND ONLINE BRAND PRESENCE AND SUPPORT

WEBSITE

- Landing pages in French, Spanish, Portuguese and Thai
- Access to product documentation, comparison charts and diagnostic guides
- Device software
- G-WEB PLUS interface for administering CENTURION GSM devices
- Massive library of useful articles
- <http://www.centsys.com>

SUPPORT

- Dedicated technicians, unrivalled backup support and friendly and efficient sales personnel
- Technical support in all official languages, as well as French, Spanish and Portuguese
- Call centre operates 7am to 6pm (GMT +2), Monday to Friday and 8am to 4:30pm (GMT +2) on Saturdays

SOCIAL MEDIA

- “Like” our Facebook page (www.facebook.com/centurionsystems) and follow us on Twitter (@askCenturion) for all the exciting company news, launches, roadshows, competitions as well as technical and sales support
- Subscribe to our YouTube channel for access to an extensive library of how-to videos and tutorials
- Interesting and innovative installations from around the world, including unusual uses of CENTURION products
- Are you on our YouTube channel? Showcase your installations!

NEWSLETTER

- Fantastic way of staying abreast of company news, developments, events and functions, new products and enhancements to existing range



INDUSTRY-LEADING PRODUCT TECHNOLOGIES

TECHNOLOGY

CENTURION products feature a host of industry-leading technologies, all conducive to greater security, greater convenience and superior functionality. Just some of the advanced technologies found in our products are:

- **ChronoGuard** – a world-first timer technology that allows the user to set a myriad Auto-activation and Time-barring functions using the onboard Real Time Clock and Calendar, which tracks the date up to the year 2099
- **Intruder-detection Alarms** – The novel feature-set – consisting of the Beam Alarm and Ambush Alarm - ups the security ante even further by providing an audible output when the infrared gate safety beams are obstructed, or remain interrupted for a pre-defined period of time
- **Code-hopping technology** – CENTURION remote controls are equipped with code-hopping encoders which process the outgoing transmission through a sophisticated encryption engine, making copying and cloning virtually impossible. No two transmitted codes will ever be alike

- **Onboard diagnostics** – Our D-Series range provides both audible and visual feedback of the gate status at any given time. In addition, a designated diagnostic screen makes fault-finding a breeze
- **High-volume capability** – CENTURION operators are designed to work hard, and work hard they do – with some operators such as the SECTOR II traffic barrier being capable of performing in excess of 3000 operations every single day



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**Sharecall Technical Support 0861 003 123
+27 11 699 2481
from 07h00 to 18h00 (GMT+2)**

**Sharecall numbers applicable when dialled
from within South Africa only**

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