



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.



	R3	R5
Input voltage ¹	220V - 240V AC	90V - 240V AC
Maximum gate leaf width for corresponding gate mass	2m - 250kg	2m - 600kg
	3.5m - 150kg	3.5m - 260kg
Typical gate opening time	14 sec	17 sec
Maximum daily operations	150	250
Onboard multichannel receiver	-	-
Interface type	LED-based	LED-based
Automatic beam test	-	-

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



SWING GATE OPERATOR QUICK SELECTION GUIDE



VERT-X	VANTAGE 400	VANTAGE 500	IT24N
90V - 240V AC	90V - 240V AC	90V - 240V AC	220V - 240V AC
1.5m - 600kg	2m - 500kg	2m - 750kg	2m - 550kg
3m - 150kg	4m - 200kg	4m - 310kg	3.5m - 400kg
11 sec	<14.3 sec	<17.8 sec	<20 sec
250	250	250	250
✓	✓	✓	
LCD	LCD	LCD	LED-based
✓	✓	✓	-



Centurion Systems (Pty) Ltd is a Company of the
FAAC *Simply Automatic Business Unit*



VERT-X LINEAR SWING GATE OPERATORS

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 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 - operate a multitude of functions; for e.g. operate gate, switch on Pillar Light, Pedestrian Opening, etc.

VERT-X™





SWING GATE OPERATORS

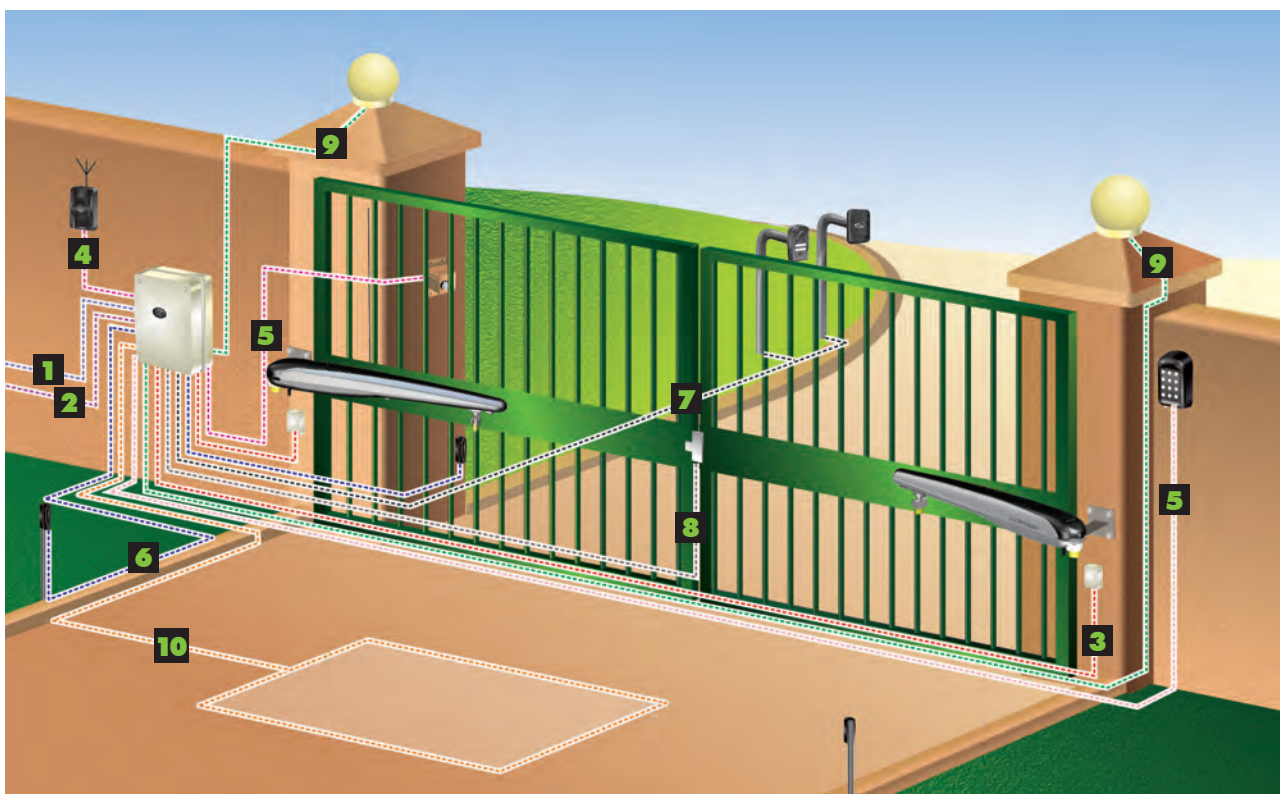
TECHNICAL SPECIFICATIONS

Technical Data	VERT-X
Input voltage ^{1,3}	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 to gate mass	2m/335kg
Maximum leaf width for corresponding to gate mass ⁵	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 ⁴	
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 rolling code (Keelog™ encryption) 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 ⁶	Length: 1105mm x Width: 335mm x Height: 270mm
Double kit ⁶	Length: 1105mm x Width: 335mm x Height: 270mm

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



LINEAR SWING GATE OPERATORS



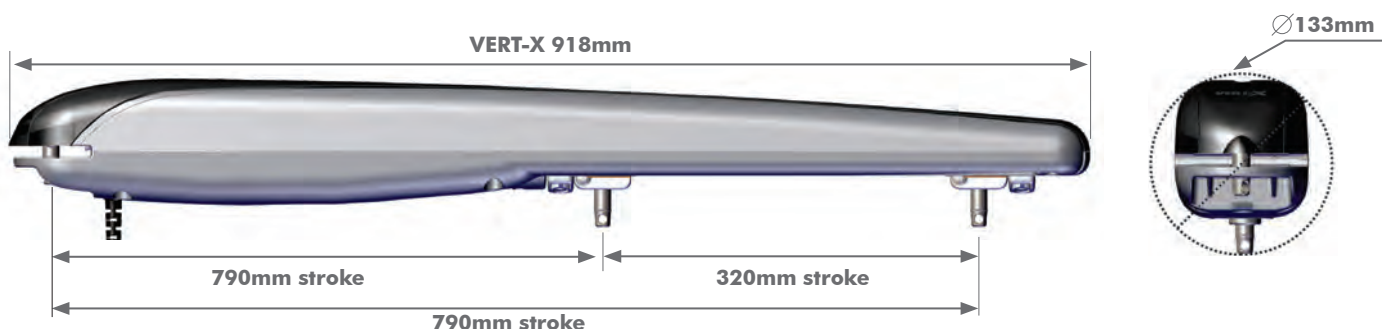
CABLING REQUIREMENTS

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



UNVEILING A NEW SWING

There is an awed hush as Michael Blackman, one of CENTURION's chief mechanical engineers, turns to face the crowd, having just donned blue doctors' scrubs and taking the cordless drill that is to be his surgical tool, in his right hand. The vibrant chatter that has hitherto filled the training room at the company's corporate head office in North Riding, suddenly subsides and the very air becomes pregnant with anticipation. One gets the distinct feeling that something very, very significant is about to take place.

And with good reason, for in a few short moments, CENTURION's two brand new linear swing gate operators – **VERT-X** and **VANTAGE** – will be introduced to an eager public. The demonstration is to be presented in the style of a surgical dissection and, as the cover that has been obscuring the first of the two operators to go under the drill is lifted, there is a craning of necks and several nods of approval from the audience.

Michael begins the presentation (aptly titled 'The Anatomy of Excellence') by giving a brief

overview of the **VERT-X** – CENTURION's new linear swing gate motor for domestic gates – before initiating the dissection process, starting with the optimised design of the packaging and concluding with the operator lying fully dissected on the operating table before him. Along the way, he pauses several times to highlight the myriad mechanical improvements – the simplified construction, the custom-made seals for improved water ingress protection, the Grade 304 stainless steel wormshaft – that have made this operator the best that swing gate automation has to offer.

Next, it's the **VANTAGE's** turn to go under the drill, and Michael again looks every bit the part of the skilled surgeon as he splits the casing to reveal the marvels of engineering that lie beneath this titan's tough-as-nails exoskeleton. 'Stronger. Superior. Secure' the **VANTAGE's** slogan proudly declares, and its robust rectangular extrusion (anodised for greater corrosion protection) and Grade 304 stainless steel piston tube lend credence to this bold statement. With its incredibly

durable casing manufactured from 6061 T6 aircraft grade aluminium, the **VANTAGE** very much looks the part of the powerful light-industrial operator.

There's a rare sort of poetry contained within both of these operators, in the subtle blending of rugged tenacity and sweet aesthetics. They embody gentle simplicity processed through industrial sensibilities for the perfect combination of function and form.

For more information on these formidable new products, please visit the **VERT-X** and **VANTAGE** pages on the Centurion Systems website.

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.

MAIN FEATURES

- 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 for further details
- Supports inward- and outward-opening gates without needing mechanical endstops
- Multiple operating features including Intruder-detection Alarms (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.



VERT-X™



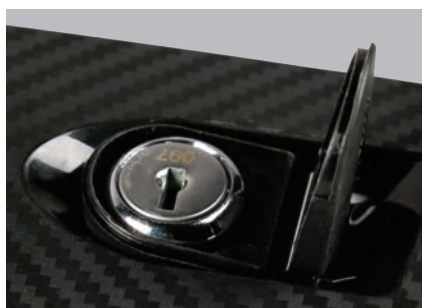


SWING GATE OPERATORS

TECHNICAL SPECIFICATIONS

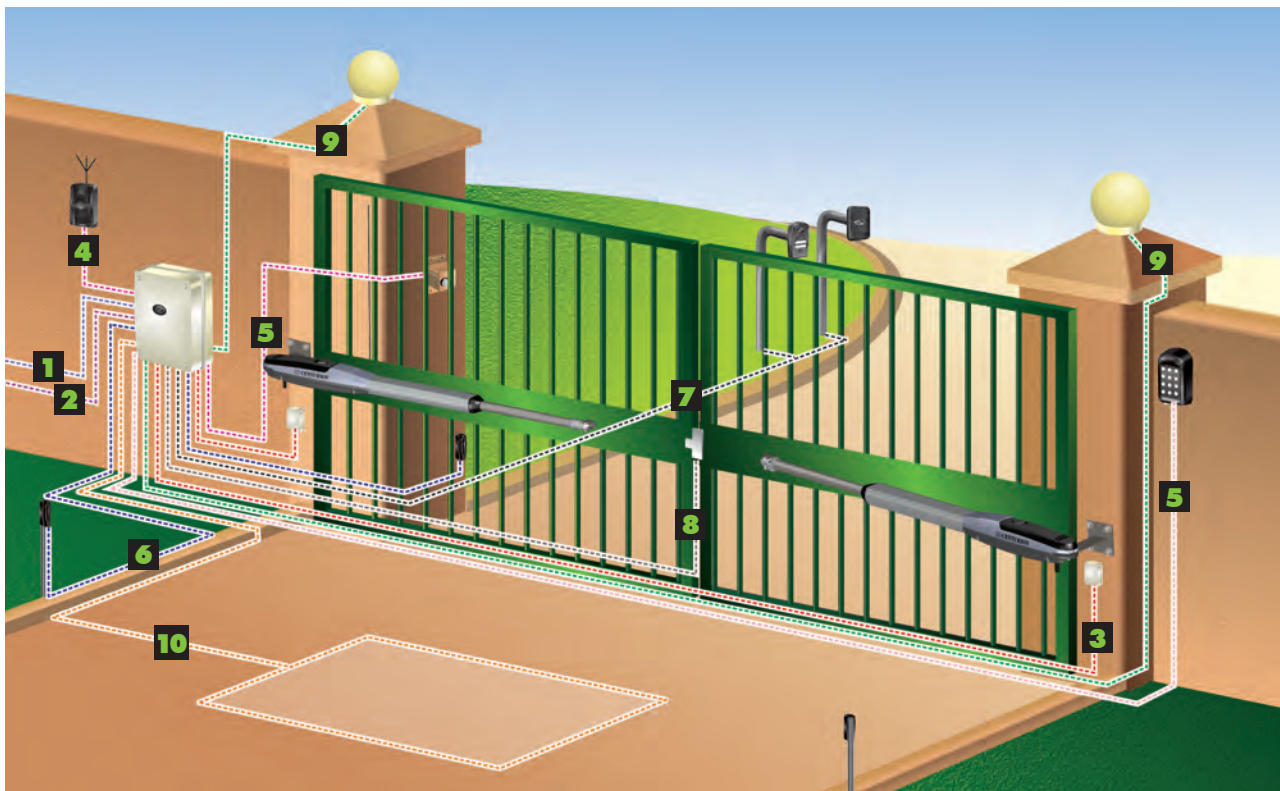
Technical Data	VANTAGE 400	VANTAGE 500
Input voltage ^{1,3}	220V AC $\pm 10\%$, 50Hz	220V AC $\pm 10\%$, 50Hz
Motor voltage	12V DC	12V DC
Motor power supply ²	Battery-driven (standard capacity - 7Ah)	Battery-driven (standard capacity - 7Ah)
Battery charger ¹	CP84SM - 1.8A @ 13.7V	CP84SM - 1.8A @ 13.7V
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	2m/500kg	2m/750kg
Maximum leaf width for corresponding to gate mass ⁵	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 ⁴		
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 rolling code (Keelog™ encryption) onboard, multichannel	NOVA rolling code (Keelog™ encryption) 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 ⁶	Length: 1125mm x Width: 335mm x Height: 270mm	Width: 1105mm x Width: 335mm x Height: 270mm
Double kit ⁶	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. Plug-in transformer
3. Solar panel
4. Can increase battery capacity for longer standby times
5. To secure gat,a lock is recommended when gate is closed
6. Dimensions of the kit of components packed together



**LINEAR
SWING GATE
OPERATORS**



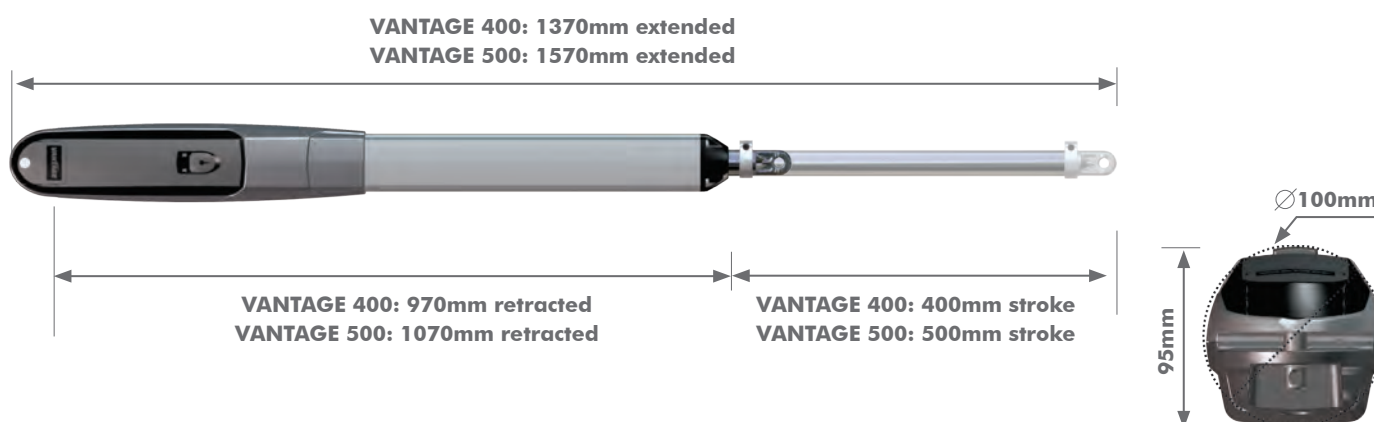


CABLING REQUIREMENTS

- 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
- 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):

- 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)
 - Radio receiver cable (3 core 0,5mm² multi-stranded, optional)⁵
 - Pedestrian Keyswitch (2 core 0,5mm² multi-stranded) or optional keypad (3 core 0,5mm² multi-stranded)
 - Infrared Safety Beams or safety edge (3 core 0,5mm² multi-stranded or 4 core 0.5mm² for CE compliance)
 - Intercom cable (n2 + 2 core 0,5mm² multi-stranded) to gate station
 - Electric lock (2 core 1.5mm²)
 - Pillar Light cable (3 core LNE SWA), size according to power regulations)
 - 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



Windloading 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 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 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

R3 AND R5 ROTARY SWING GATE OPERATORS

These robust rotary swing gate operators allow for fast, smooth and quiet operation of the gate. Mounted separately on a pedestal, the **R3** and **R5** operators are ideal for gate installations with wide pillars. Besides offering very safe anti-crushing, the operators support a host of very useful functions for looking after the gate entrance.

MAIN FEATURES

- R3:** The logical choice for domestic gates with large pillars
R5: This unit is well-suited for large domestic and light-industrial swing gates

MAIN FEATURES

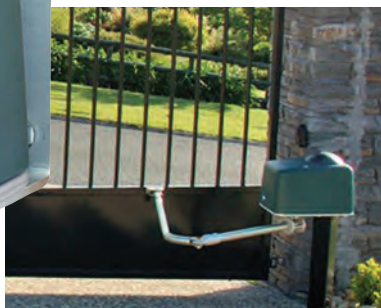
Mechanical Features

- Battery backup
- Rotary arm system – ensures smooth and exceptionally reliable operation
- Both wall- and pedestal-mount configurations for greater flexibility of installations
- Fast operation – for optimum security and convenience
- Whisper-quiet operation – totally unobtrusive operation

Electronic Features

- Multiple programmable features – to suit a wide variety of applications
- Master motor with integrated controller and charger simplifies the installation
- Adjustable Autoclose timer – gate is never left open unnecessarily

- Diagnostic LEDs for easy programming
- Dedicated Pillar Light Relay
- The following onboard inputs and outputs are provided:
 - Free-exit input
 - Trigger input
 - Solenoid lock connection
 - 12V DC output for auxiliary devices such as external receivers, gate Safety Beams, etc.
 - Input for infrared Safety Beams
 - Pedestrian Opening input
 - Dedicated Holiday Lockout input
- Fuse-protected





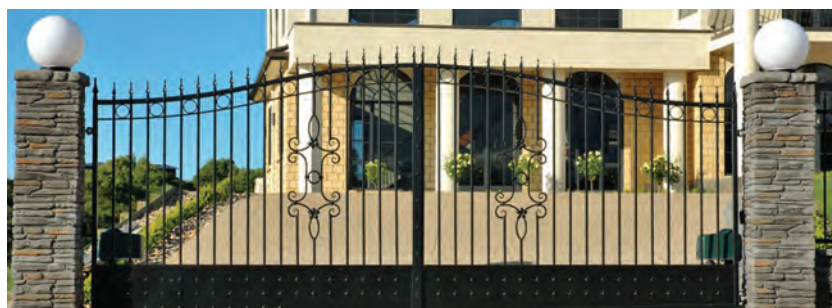
TECHNICAL SPECIFICATIONS

Technical Data	R3 Domestic	R5 Light-industrial
Input voltage ¹	220V AC +/-10% @ 50Hz	220V AC +/-10% @ 50Hz
Motor voltage	12V DC	12V DC
Motor power supply ²	Battery driven (standard capacity - 7Ah)	Battery driven (standard capacity - 33Ah)
Battery charger	CP84E – 800mA @ 13.8V	CP84SM – 1.8A @ 13.7 +/-1%
Current consumption (mains supply)	60mA	170mA
Current consumption (motor rated / peak load)	4/10 A	6/15 A
Current consumption (quiescent load)	70mA	70mA
Operator output torque – maximum	95Nm	250Nm
Maximum leaf width for corresponding gate mass	2m/350kg	2m/600kg
Maximum leaf width for corresponding gate mass	3.5m/160kg	3.5m/260kg
Gate opening time - typical	11sec	17sec
Maximum daily cycles	150 cycles/day	250 cycles/day
Design Life	120 000 cycles	250 000 cycles
Operations in standby with 7Ah battery		
Half day	100 cycles	40 cycles
Full day	80 cycles	40 cycles
Collision sensing	electronic	electronic
Operating temperature	-15°C to +50°C	-15°C to +50°C
Degree of protection	IP55	IP55
Controller incorporated	CP75	CP75
Onboard receiver type	External, supplied separately	External, supplied separately
Receiver frequency	MHz	MHz
Receiver code storage capacity	Buttons	Buttons
Mass of unit packed		
Single kit	17.5kg	23kg
Double kit	33.5kg	44kg
Packing dimensions		
Single kit ³	Length:1015mm x Width: 230mm x Height: 490mm	
Double kit ³	Length:1015mm x Width: 230mm x Height: 490mm	

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

2. Can increase battery capacity for longer standby times

3. Dimensions of the kit of components

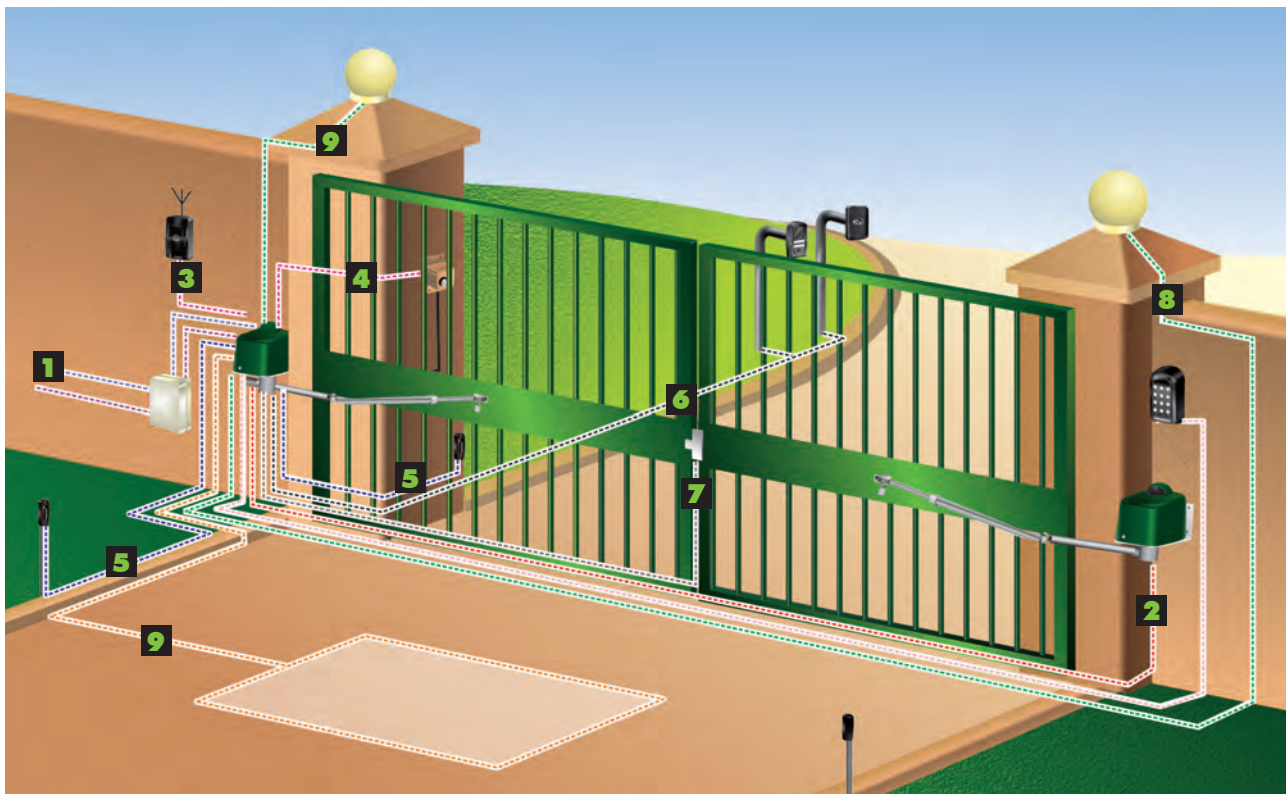


R3



R5

ROTARY
SWING GATE
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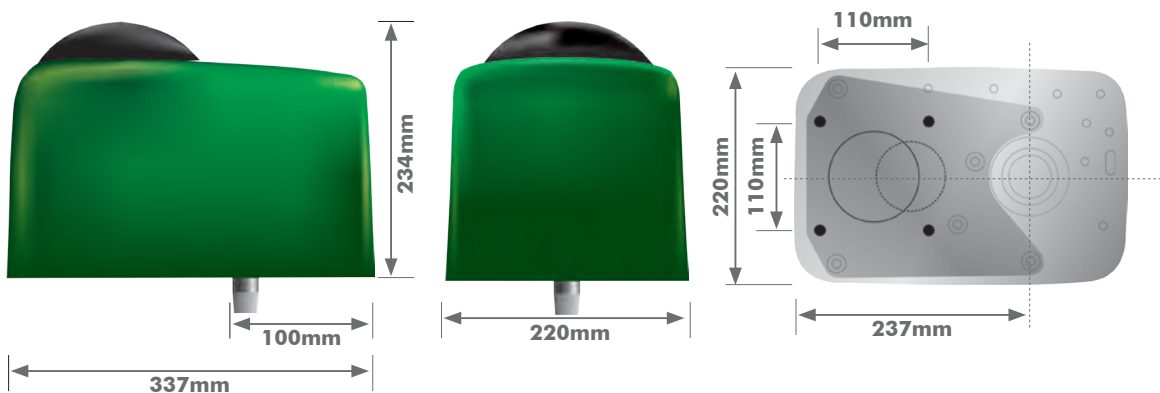


CABLING REQUIREMENTS

1. 90V / 220V - 240V AC mains cable via mains isolator switch¹ (3 core LNE 1,5mm² SWA)^{1,2}, or low-voltage 15V - 19V AC cable via transformer in dwelling (3 core LNE 1.5mm² Surfix)⁶
2. Master Motor (MTR M) or Slave Motor (MTR S) cable (minimum, 2 core 2mm² + 4 core 0,5mm² multi-stranded)⁶

Optional Wiring (all cable is multi-stranded):

3. Radio receiver cable (3 core 0,5mm² multi-stranded, optional)⁴
 4. Pedestrian Keyswitch (2 core 0,5mm² multi-stranded) or optional keypad (3 core 0,5mm² multi-stranded)
 5. Infrared Safety Beams or safety edge (3 core 0,5mm² multi-stranded or 4 core 0.5mm² for CE compliance)
 6. Intercom cable (n2⁵ + 2 core 0,5mm² multi-stranded) to gate station
 7. Electric lock (2 core 1.5mm²)
 8. Pillar Light cable (3 core LNE SWA), size according to power regulations)
 9. Inductive loop detector for free-exit (1 core 0.5mm² multi-stranded - silicone-coated)
1. Mains isolator must be fitted less than 1m from controlle
2. Possibly increase cable thickness if Pillar Lights are to be installed
3. Type of cable must adhere to municipal bylaws and preferably be screened. Screening provides better protection against lightning - earth one end of the screening
4. For optimum range an external radio receiver can be mounted on the wall
5. Number of cores required by the intercom
6. Screened cable is always recommended to provide better protection against lightning. Earth one end of screening



INTELLIGENT AUTOMATION FOR YOUR FARM

Gate automation | GSM devices | Solar | Intercoms | Remote controls | Safety devices | Access control | Garage door automation | Traffic control systems | Many other devices

- Maximise security with a fast, strong and reliable gate motor
- Manage traffic flow with robust and reliable traffic control systems
- Receive SMS notifications when mains power is cut or your alarm is triggered
- Open your gate, arm an alarm or activate an irrigation system or borehole pump via a missed call or SMS
- Answer your intercom from anywhere in the world

SWING GATE
OPERATORS





IT24N UNDERGROUND SWING GATE OPERATOR

A powerful underground swing gate operator for discerning homeowners that do not want to see an operator moving their gates, the **IT24N** provides reliable swing gate automation for gates up to 3.5 metres wide without impacting the aesthetic appeal of the gate. These operators are also ideal for operating gates with limited or - sidewall space.

Suitable for domestic and light-industrial applications providing safe, quiet and reliable operation.

MAIN FEATURES

Mechanical Features

- Hidden from view for greater aesthetic appeal
- Battery backup
- Extremely potent and reliable motor reduction unit for smooth and dependable operation

Electronic Features

- Multiple operating features – to suit a wide variety of applications
- Proven lightning protection for greater reliability
- High immunity to noise – not affected by external interference
- Micro-controller platform allows customisation – improved versatility
- Trigger input with local test button – useful for testing the operation of the device when a transmitter is not available
- Local and remote multi-function Gate Status LED
- Pedestrian Opening input - prevents unauthorised vehicle access

- Safety Beam input – connecting infrared Safety Beams dramatically increases the safety of the automated system
- Free-exit input (only opens gate) – ideal for fitting free-exit ground loops or pushbuttons in townhouse complexes and high-volume vehicle access applications
- Holiday Lockout input – ensures that gate cannot be opened when homeowners are away
- Timed potential-free contact (e.g. Courtesy Lights)
- Low-voltage switching of potential-free contact
- Selectable/adjustable Autoclose timer (5 – 45 seconds)
- Override of Autoclose timer via trigger input
- Local diagnostic LEDs for easy programming
- Available in 12V and 24V DC variants





SWING GATE OPERATORS

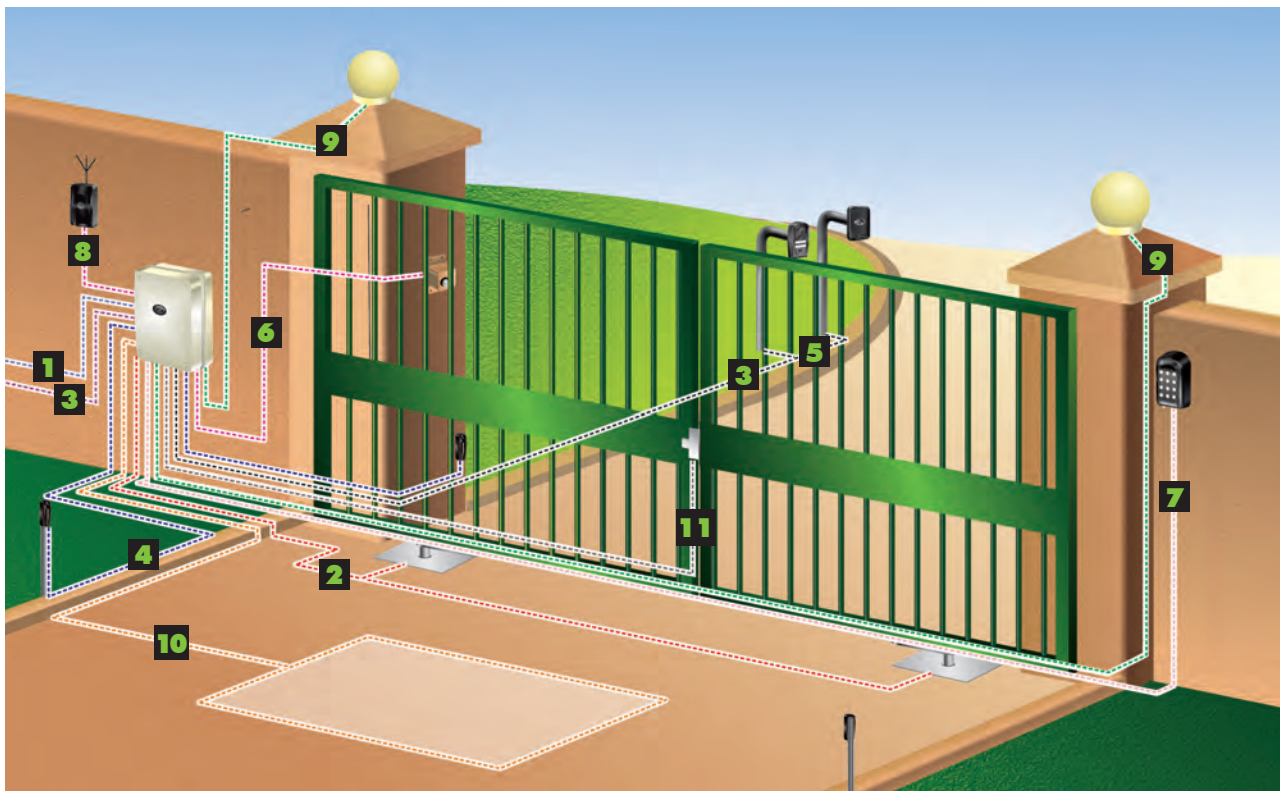
TECHNICAL SPECIFICATIONS

Technical Data	BENINCA ITN24
Input voltage ¹	220V AC +/-10% @ 50Hz
Motor voltage	24V DC
Motor power supply ²	Battery driven (standard capacity - 2 x 5Ah)
Battery charger	500mA @ 27.5V
Current consumption (mains supply)	60mA
Current consumption (motor rated / peak load)	5/15 A
Current consumption (quiescent load)	50mA
Operator output torque – maximum	360Nm
Maximum leaf width for corresponding gate mass	4/500
Maximum leaf width for corresponding gate mass	0
Gate opening time - typical	15-23 sec
Maximum daily cycles	200 cycles/day
Design Life	250 000 cycles
Operations in standby with 7Ah battery	
Half day	30 cycles
Full day	30 cycles
Collision sensing	electronic
Operating temperature	-15oC to +50oC
Degree of protection	IP67
Controller incorporated	CP77/24V in separate wallbox
Onboard receiver type	External, supplied separately
Receiver frequency	MHz
Receiver code storage capacity	Buttons
Mass of unit packed	20.5kg
Packing dimensions	
Single kit ³	Length: 665mm x Width: 335mm x Hieght: 410mm
Double kit ³	Length: 665mm x Width: 335mm x Hieght: 410mm

1. Can operate off a solar supply, consult Centurion Systems for assistance
2. Can increase battery capacity for longer standby timesz
3. Dimensions of the kit of components



UNDERGROUND SWING GATE OPERATOR



CABLING REQUIREMENTS

1. 220V - 240V AC mains cable via double pole mains isolator switch (3 core LNE 1.5mm² ¹ SWA ²)
2. Motor cables (2 core + earth 1.5mm², 3 core 0.5mm², multi-stranded)

Optional Wiring (all cable is multi-stranded):

3. Intercom cable from control box to dwelling (n1 ⁷ + 6 core ³ 0.5mm² multi-stranded) or cable from control box to Entry Panel (n2 ⁷ 0.5mm² multi-stranded)
4. Infrared Safety Beams (3 core 0.5mm² multi-stranded)
5. Access control device (3 core 0.5mm² multi-stranded)⁴
6. Pedestrian Keyswitch (2 core 0.5mm² multi-stranded) or
7. Keypad (3 core 0.5mm² multi-stranded)
8. External radio receiver (3 core 0.5mm² multi-stranded)⁵
9. Pillar Lights (3 core LNE SWA)², size according to power requirements)
10. Inductive loop detector for free-exit (1 core 0.5mm² multi-stranded - silicone-coated)⁶
11. Electric lock (2 core 1.5mm²)

1. Possibly increase cable thickness if Pillar Lights are to be installed

2. SWA - steel wire armoured

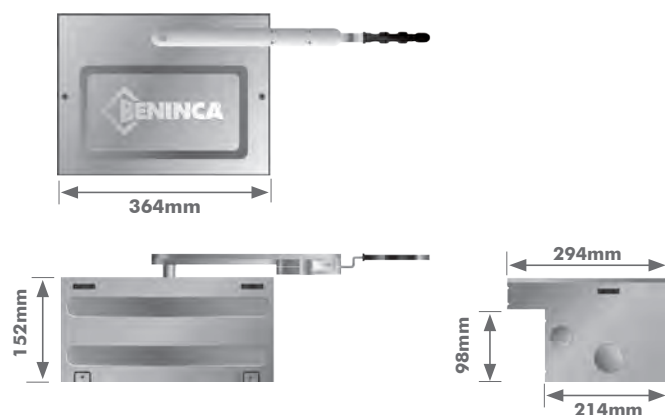
3. Allows for all features such as Pedestrian Opening, Status LED, etc. to be operated from the intercom handset inside the dwelling

4. Number of cores and type of cable could vary depending on the brand of access control system being used

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

6. Consult manufacturer of loop detector for specific details

7. Number of cores required by the intercom



TIPS FOR SECURING YOUR ENTRANCE GATE

Those of you who are active on social media, would no-doubt have seen the recent, much-circulated CCTV footage showing an armed intruder invading the home of talk show presenter David O'Sullivan and – after being greeted by a rather amorous black Labrador – proceeding to rob David's wife Jacqui of her jewelry. The thug – his face obscured by a bandanna and peak cap – appears to gain entrance to the O' Sullivan's' property by pinning the entrance gate with their getaway vehicle, causing the motor to enter multiple collision mode.

Thankfully, neither Jacqui, nor her four year-old son who was with her at the time, was harmed in the incident, though it left them understandably traumatised, especially given the fact that the family was the victim of a similar attack some two years prior.

So-called contact crimes (which is any criminal act in which there is an interaction between the criminal and the intended victim) like the one that befell the O'Sullivan's, has cast a pall of dread and anxiety over homeowners, who fear

falling victim to a similar fate. Violent criminals' draconian reign has left scores of South Africans fleeing the country, and even more citizens trapped and feeling completely helpless, unable or unwilling to be part of the mass exodus.

However, we are not completely powerless when it comes to keeping criminals at bay, as CENTURION Marketing and Sales Director Richard Rohman points out. One's entrance gate can be a single point of success or failure, and in this article Mr. Rohman provides us with some handy tips for securing the entrance to one's property.

'In the case of the O'Sullivan incident,' Richard explains, 'where a motor vehicle was used to jam the gate before it was fully closed, a fast-moving gate motor like the **D10 Turbo** will in most cases be effective in closing the gate before the intruder can get their vehicle in position to block the gate'.

'Additionally, a pair of infrared gate safety beams can be fitted and used to activate an alarm or loud sound bomb – activated when the infrared beam is interrupted –

which will hopefully deter the criminals. Combine this with an alarm output on the controller so that, should the gate go into multiple collision mode, the same sound bomb blasts straight into the driveway'.

He adds that it's of equal importance that measures are taken to prevent thugs from prising the gate open when it's in the closed position, and lists the following guidelines as critical to ensuring the integrity and security of one's gate:

- Adequate anti-lift brackets must be provided to prevent the gate from being lifted so that the rack is disengaged from the pinion
- Strengthen the mounting of the rack adjacent the pinion, so that the rack can't be bent up and away from the pinion and lose locking engagement
- The front catch bracket must be sturdy enough to prevent the intruder from pushing the gate over



SWING GATE OPERATOR ACCESSORIES



CENTURION INFRARED 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 panel.



CENTURION TRANSMITTER

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



G-SWITCH-22 GSM DEVICE

Allows for monitoring and activating the operator, via your phone, from anywhere in the world with GSM coverage.



SMARTGUARD or SMARTGUARDAIR KEYPAD

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



SWING GATE OPERATORS



POLOPHONE INTERCOM

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



G-SPEAK Intercom

Mobile-based intercom system - answer your intercom from anywhere in the world for maximum security and convenience.



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 helps 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 **N**
- **1 x Wallbox including: F**
 - 1 x Mains isolator
 - 1 x LED indicator board **D**
 - 1 x 2A Switch Mode charger **H**
 - 1 x V-Series controller **A**
- 1 x 7Ah battery **J**
- 4 button CENTURION transmitter **E**

DOUBLE VANTAGE 400 or 500 KIT

1

Product Code: **VAN4KITDLIND** or **VAN5KITDLIND**

- **2 x VANTAGE operator including:**
 - Mounting hardware **N**
- **1 x Wallbox including: F**
 - 1 x Mains isolator
 - 1 x LED indicator board **D**
 - 1 x 2A Switch Mode charger **H**
 - 1 x V-Series controller **A**
- 1 x 7Ah battery **J**
- 4 button CENTURION transmitter **E**

SINGLE VERT-X KIT

2

Product Code: **VERTXKITSLIND**

- **1 x VERT-X operator including:**
 - Mounting hardware **N**
- **1 x Wallbox including: F**
 - 1 x Mains isolator
 - 1 x LED indicator board **D**
 - 1 x 2A Switch Mode charger **H**
 - 1 x V-Series controller **A**
- 1 x 7Ah battery **J**
- 4 button CENTURION transmitter **E**

DOUBLE VERT-X KIT

2

Product Code: **VERTXKITDLIND**

- **2 x VERT-X operator including:**
 - Mounting hardware **N**
- **1 x Wallbox including: F**
 - 1 x Mains isolator
 - 1 x LED indicator board **E**
 - 1 x 2A Switch Mode charger **H**
 - 1 x V-Series controller **A**
- 1 x 7Ah battery **J**
- 4 button CENTURION transmitter **E**

SINGLE R3 PEDESTAL/WALL-MOUNT KIT

3

Product Code: **Pedestal: R31PV2, Wall: R311WV1**

- **1 x R3 operator including:**
 - 1 x 800mA charger **G**
 - 1 x Controller **B**
 - 1 x 7Ah battery **J**
- Mounting hardware **M**

DOUBLE R3 PEDESTAL/WALL-MOUNT KIT

3

Product Code: **Pedestal: R32PV2, Wall: R32WV2**

- **2 x R3 operator including:**
 - 1 x 800mA charger **G**
 - 1 x Controller **B**
 - 1 x 7Ah battery **J**
- Mounting hardware **M**

SINGLE R5 PEDESTAL/WALL-MOUNT KIT

3

Product Code: **Pedestal: R511PV1, Wall: R511WV1**

- **1 x R5 operator including:**
 - 1 x 2A Switch Mode charger **H**
 - 1 x Controller **B**
 - 1 x 33Ah battery **K**
- Mounting hardware **M**
- 1 x Separate battery housing **L**

DOUBLE R5 PEDESTAL/WALL-MOUNT KIT

3

Product Code: **Pedestal: R521PV1, Wall: R521WV1**

- **2 x R5 operator including:**
 - 1 x 2A Switch Mode charger **H**
 - 1 x Controller **B**
 - 1 x 33Ah battery **K**
- Mounting hardware **M**
- 1 x Separate battery housing **L**

SINGLE IT24N KIT

4

Product Code: **BENUG24KITS**

- **1 x IT24N operator including:**
 - 1 x Foundation box
 - 1 x Cover plate
 - Internal linkage
- **1 x Wallbox including: F**
 - 1 x Controller **C**
 - 1 x CP13E 24V charger **I**
 - 2 x 7Ah battery **J**

DOUBLE IT24N KIT

4

Product Code: **BENUG24KITSD**

- **2 x IT24N operator including:**
 - 1 x Foundation box
 - 1 x Cover plate
 - Internal linkage
- **1 x Wallbox including: F**
 - 1 x Controller **C**
 - 1 x CP13E 24V charger **I**
 - 2 x 7Ah battery **L**



SWING GATE OPERATORS



1 VANTAGE

2 VERT-X

3 R3 AND R5

4 IT24N



V-SERIES controller



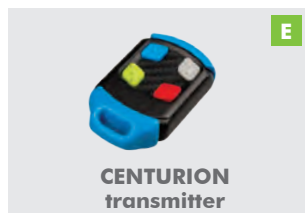
R3 R5 controller



CP77 24V controller



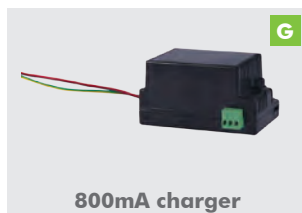
V-SERIES LED external indicator board



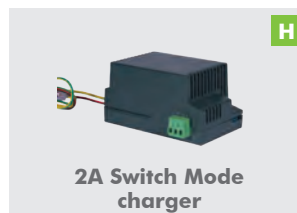
CENTURION transmitter



V-SERIES wallbox kit



800mA charger



2A Switch Mode charger



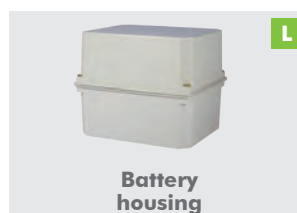
CP13E 24V charger



7Ah battery



33Ah battery



Battery housing



R3 R5 mounting hardware



V-SERIES mounting hardware

Images are for illustrative purposes only - refer to text