CENTURION

MINI PRODUCT CATALOGUE

Access
Control and
Automation
2020

100% testing of products

In-house R & D team

After-sales technical support

Manufacture to international quality standard ISO 9001:2008

CENTURION products are proudly manufactured by Centurion Systems (Pty) Ltd, South Africa.

Why choose Centurion Systems?

Innovative products

- South Africa's leading manufacturer of gate automation and access control products since 1986

- Proven track record of reliability

- Built tough to withstand extreme climates

- Onboard battery backup - ideal for solar installations

- Incorporates cutting edge technology for advanced functionality and effortless setup

- Comprehensive onboard diagnostics for ease of maintenance

- Centurion Systems is committed to providing unmatched service and support for its products, which are available through a network of competent distributors and installers in over seventy countries worldwide

1986   **1990**   **1995**   **1999**   **Today**

WHY CENTURION

Centurion Systems (Pty) Ltd is an industry-leading gate automation and access control company, manufacturing as well as distributing a wide range of products including:
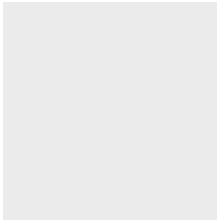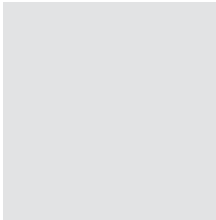
- Sliding gate operators
- Swing gate operators
- Traffic barriers and accessories
- Roller-shutter operators
- Intercom systems
- GSM devices and GSM-based intercoms
- Keypads
- Remote controls
- Proximity access control
- Bollards
- Turnstiles
- Door automation systems

We boast a dedicated R & D department with a crack team of fully-qualified engineers who conduct product development in-house, and we pride ourselves on our unrivalled after-sales support, devotion to quality and the personal touch evident in each and every product that we sell. Our award-winning product range includes a number of world-first technological advancements, including the revolutionary ChronoGuard timer technology as well as the Beam Alarm feature-set found on our D-Series range of gate operators.

Centurion Systems also takes great pride in our Training Department, who takes gigantic strides towards ensuring that all our clients and staff are comfortable and familiar with our products. We currently export to over 70 countries worldwide including New Zealand, the United Kingdom and several countries in Africa and the East. We are accredited with the prestigious ISO9001-2008 quality assurance certification. In addition to this, our design engineers have taken great care to ensure that our gate motors are compliant with most operating standards, including CE and UL325.

Lastly, our products have been designed with the express purpose of making life easier for installers, and that is why we continuously innovate to make the installation process a genuinely pleasurable and hassle-free experience.

Removable terminal strips, intuitive LCD interfaces and web-based operating platforms are just some of the ways in which we strive to facilitate ease of installation and administration of our products.

SLIDING GATE OPERATORS

SLIDING GATE OPERATORS

Your entrance gate is what stands between you and the outside world. It's your first line of defense against criminals. Make sure that it's fitted with the very best. CENTURION's range of sliding gate motors has been designed to provide the ultimate in security and convenience.

INTELLIGENT SECURITY FOR YOUR GATE

D5 SMΔRT

SMΔRT.
The intelligent choice.

*What makes the **D5 SMΔRT** so smart? Well, lots of things, but wireless convenience is where this operator really shines!*

SMΔRT ACCESS TO YOUR HOME

Combining futuristic technology with the user-friendly design that has become the hallmark of CENTURION's gate automation solutions, the D5 SMΔRT is equal parts sophistication and simplicity.

Boasting wireless convenience and fast operating speed for greater security, not to mention a host of advanced features, the D5 SMΔRT has everything you ever wanted in a gate motor…and more!

SMΔRT speed
At 30m/minute and with safe anti-crushing protection, the D5 SMΔRT strikes the perfect balance between safety and security.

SMΔRT connectivity
Open your gate from anywhere using your smartphone, plus set up unique, individual profiles for everyone using the gate.

SMΔRT diagnostics
Self-testing functionality measures and monitors the system's performance.

SMΔRT hardware
We'll have you sliding in no time thanks to simplified installation.

SMΔRT logging
The D5 SMΔRT provides intelligent feedback on your operator's overall functioning and reports on events such as the last remote pressed, the condition of the battery, gate status as well as the speed at which the gate is running, delivering maximum peace of mind and giving you the SMΔRT experience.

D5 SMART

Our brand essence is "making your life easier" and, with the D5 SMΔRT, we believe that we have created a product that is the very embodiment of this. Taking what we've learned through more than 30 years of being the market leader in access automation, we are bringing you a solution that gives you everything from intelligent reporting to easy mobile-based setup and operation, as well as SMΔRT hardware for a greatly simplified mechanical installation.

With unsurpassed convenience and control at your fingertips, you'll love using the D5 SMΔRT.

Main Features
- SMΔRT speed - up to 30m/minute
- SMΔRT diagnostics - self-testing capabilities
- SMΔRT connectivity - setup and configuration from your smartphone
- SMΔRT hardware - for simplified installation
- SMΔRT logging - quick access to system health

What else?
- New and improved theft-resistant cage with a patented design offering outstanding security and peace of mind
- Vibration sensor that can be connected to a third party device to notify you in the event that the gate motor is being tampered with
- Intelligent battery charger with onboard diagnostics and SMΔRT communication between the charger and the controller
- Improved position control system incorporating hall effect technology – highly resistant to interference
- Individually-configurable inputs and outputs
- Convenient and intuitive single-action manual release
- Reliable battery backup delivering more operations

TECHNICAL SPECIFICATIONS

Technical data	D5 SMΔRT
Input voltage	90V - 240V AC +/-10% @ 50Hz[1]
Current consumption (Mains)	200mA
Maximum number of operations per day	150
Duty cycle - Mains present[2,3]	50%
Motor voltage	24V DC
Motor power supply	Battery-driven (Standard Capacity - 2x12V)[5]
Current consumption (motor at rated load)	13A
Input / Output sink currents (Max accessory current draw)	
I/O 1-4	100mA (12/24V)
I/O 5 and 6	3A (12/24V) 10sec Pulse
Motor push force - starting	30kgf
Motor push force - rated	17kgf
Gate mass - maximum	500kg
Gate length - maximum	100m
Gate speed (varies with load)[4]	30m/min @ 17kgf
Manual Override	Lockable with key release
Operations in standby with 6Ah battery	
Half day[5, 6]	44
Full day[5, 6]	35
Collision Sensing	Electronic
Operating temperature range	-15°C to +50°C
Onboard receiver type	Code-hopping multichannel receiver with selective add and delete
Receiver code storage capacity	1500 Remotes[7]
Receiver frequency	433.92MHz
Degree of protection	IP55
Mass of unit packed	9.1kg

1. Can operate off a solar supply, consult your local dealer for assistance

2. Based on 25°C ambient temperature and unit not in direct sunlight

3. Based on a motor push force of less than 50% of rated (Starting and Running forces)

4. Gate opening and closing speeds can be configured to run slower depending on the requirements of individual installations

5. Can increase battery capacity for longer standby times

6. Based on 4m gate, excluding all accessories

7. Multiple buttons per remote can be used

D2 TURBO

The D2 Turbo is a high-speed, cost-effective operator for domestic gates weighing up to 250kg, with a maximum speed of 24 metres per minute and powerful peak push force rated at 9kgf. This operator is exceptionally quick and easy to install and set up.

D2 TURBO LOW-VOLTAGE

The D2 Turbo Low-Voltage operator is designed specifically for sites with no mains at the gate. With the D2 Turbo Low-Voltage, there is no need for costly high-voltage cable runs and expensive isolators; simply use a low-voltage step-down transformer or solar power supply.

Main features

- Turbo speed for greater security and convenience
- D2 Turbo Low-Voltage requires only low-voltage input – no more expensive high-voltage cable runs and electricians' bills
- Very easy to install and set up, saving you time and money
- Reliable battery backup
- Dedicated Solar Mode – allows you to disable the Mains Fail buzzer when using solar power
- Onboard multichannel CENTURION receiver
- Multiple Modes of Operation
- Adaptive Collision Sensing
- Modular components clip together for easy maintenance
- Lockable, easy Manual Override

TECHNICAL SPECIFICATIONS

Technical Data	D2 Turbo	D2 Turbo Low-Voltage
Input voltage [1]	90V– 240V AC ±10%, 50Hz	10V - 20V AC ±10%, 50Hz; 10V - 28V DC [2]
Motor voltage	12V DC	12V DC
Motor power supply [3]	Battery-driven (standard capacity - 12V 5Ah)	
Current consumption (mains)	60mA	60mA
Current consumption (motor at rated load)	8/12A	8/12A
Current consumption (quiescent load)	95mA	95mA
Gate mass – maximum	250kg	250kg
Gate length - maximum	20m	20m
Gate speed - m/min [5]	22 - 26m/min	22 - 26m/min
Gate speed - mm/sec	367 - 433mm/sec	367 - 433mm/sec
Drive Pinion	17T Module 4	17T Module 4
Maximum daily cycle	10 cycles/day	10 cycles/day
Design life	30 000 cycles	30 000 cycles
Operations in standby with standard battery [3,4]		
Half day	60 cycles	60 cycles
Full day	40 cycles	40 cycles
Collision sensing	Electronic	Electronic
Operating temperature	-15°C to +50°C	-15°C to +50°C
Degree of protection	IP54	IP54
Controller incorporated	D2 Controller_H	D2 Controller_L
Onboard receiver type	NOVA code-hopping onboard, multichannel	NOVA code-hopping onboard, multichannel
Receiver frequency	433.92MHz	433.92MHz
Mass of unit packed	5kg	5kg

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

2. Plug-in transformer

3. Can increase battery capacity for longer standby times

4. Based on 4m gate with no external accessories such as infrared Safety Beams

5. Gate operating speed can be configured to run at a slower, 16m/min, depending on the requirements of individual installations

D5-EVO

The light-industrial D5-Evo is an evolution of the tried and tested D5, 500kg operator for domestic and light-industrial applications. Potent push force, along with intelligent speed control and smooth opening and closing, makes the D5-Evo the automatic choice for large private residences and townhouse complexes.

D5-EVO LOW-VOLTAGE

The D5-Evo Low-voltage enables you to enjoy all the amazing features and functionality of the flagship D5-Evo, even if you don't have mains power at the gate.

Main features

- Battery backup
- Low-Voltage model lets you save on cabling costs – no thick, expensive high-voltage cables
- Potent push force with sensitive anti-crushing protection
- Intelligent speed control
- Rapid and smooth opening and closing
- Exceptionally easy system setup via LCD user interface
- Onboard CENTURION code-hopping multichannel receiver with selective add and delete
- Multiple operating features including Intruder-detection Alarm Modes (a world first)
- Integrated ChronoGuard timer functionality (a world first)
- Be alerted of gate activity via push notification by connecting a CENTURION GSM device

TECHNICAL SPECIFICATIONS

Technical Data	D5-Evo	D5-Evo Low-Voltage
Input voltage	220V AC +/-10% @ 50Hz [1]	15V - 19V AC [2]
Motor voltage	12V DC	12V DC
Motor power supply [3]	Battery-driven (standard capacity - 12V 7Ah)	
Current consumption (mains supply)	60mA	60mA
Current consumption (motor rated / peak load)	8/15A	8/15A
Current consumption (quiescent load)	75mA	75mA
Gate mass – maximum	500kg	500kg
Gate length - maximum	100m	100m
Gate speed - m/min [5]	18 - 22m/min	18 - 22m/min
Gate speed - mm/sec	300 - 367mm/sec	300 - 367mm/sec
Drive Pinion	17T Module 4	17T Module 4
Maximum daily cycle	150 cycles/day	150 cycles/day
Design life	150 000 cycles	150 000 cycles
Operations in standby with standard battery [3,4]		
Half day	70 cycles	70 cycles
Full day	60 cycles	60 cycles
Collision sensing	Electronic	Electronic
Operating temperature	-15°C to +50°C	-15°C to +50°C
Degree of protection	IP54	IP54
Controller incorporated	D-Series_12	D-Series_12
Onboard receiver type	NOVA code-hopping onboard, multichannel	NOVA code-hopping onboard, multichannel
Receiver frequency	433.92MHz	433.92MHz
Mass of unit packed	10kg	10kg

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

2. Plug-in transformer

3. Can increase battery capacity for longer standby times

4. Based on 4m gate with no external accessories such as infrared Safety Beams

5. Gate operating speed can be configured to run at a slower, 16m/min, depending on the requirements of individual installations

D10

Using CENTURION's proven 24V DC technology, this is the complete solution for commercial and industrial gates weighing up to 1000kg.
A rock-solid die-cast aluminium gearbox and reliable battery backup make the D10 ideally suited for complexes with large gates and high traffic volumes, while an intelligent LCD controller with multiple Modes of Operation makes setup and diagnostics veritable child's play.

Main Features

- Battery backup
- Intelligent speed control
- High duty cycle capability
- Smooth acceleration and deceleration
- Exceptionally easy system setup via LCD user interface
- Onboard CENTURION code-hopping multichannel receiver with selective add and delete
- Integrated ChronoGuard timer functionality (a world first)
- Be alerted of gate activity via push notification by connecting a CENTURION GSM device

D10 TURBO

CENTURION's fastest operator yet! This is the ideal solution for extremely fast, feature-rich and high-security gate automation. With a top speed of 833mm/sec and all the amazing features that first made the D10 a favourite among installers and end-users alike, the D10 Turbo offers the complete package of brains, brawn and high speed.

Main Features

- Turbo speed for greater security and convenience
- Battery backup
- Intelligent speed control
- High duty cycle capability
- Exceptionally easy system setup via LCD user interface
- Onboard CENTURION code-hopping multichannel receiver with selective add and delete
- Integrated ChronoGuard timer functionality (a world first)
- Be alerted of gate activity via push notification by connecting a CENTURION GSM device

D10 **D10 TURBO**

TECHNICAL SPECIFICATIONS

Technical Data	D10	D10 Turbo
Input voltage [1]	220V AC +/-10% @ 50Hz	220V AC +/-10% @ 50Hz
Motor voltage	24V DC	
Motor power supply [4]	Battery-driven (standard capacity - 2 x 7Ah)	Battery-driven (standard capacity - 2 x 7Ah)
Current consumption (mains supply)	250mA	
Current consumption (motor rated / peak load)	6/15A	8/15A
Current consumption (quiescent load)	80mA	
Gate mass – maximum	1000kg	240kg
Gate length - maximum	100m	50m
Gate speed - m/min [2]	22 - 26m/min	43 - 51m/min
Gate speed - mm/sec [2]	367 - 433mm/sec	717 - 850mm/sec
Drive Pinion	17T Module 4	20T Module 4
Maximum daily cycle	750 cycles/day	750 cycles/day
Design life	250 000 cycles	250 000 cycles
Operations in standby with standard battery [3, 4]		
Half day	120 cycles	120 cycles
Full day	100 cycles	100 cycles
Collision sensing	Electronic	Electronic
Operating temperature	-15°C to +50°C	-15°C to +50°C
Degree of protection	IP54	IP54
Controller incorporated	D-Series_24	D-Series_24
Onboard receiver type	NOVA code-hopping onboard, multichannel	NOVA code-hopping onboard, multichannel
Receiver frequency	433.92MHz	433.92MHz
Receiver code storage capacity	500 transmitter buttons	500 transmitter buttons
Mass of unit packed	13kg	13kg

1. Can operate off a solar supply, consult Centurion Systems for assistance
2. Varies with load
3. Can increase battery capacity for longer standby times
4. Based on 4m gate with no external accessories such as infrared Safety Beams

A10 ENDURANCE

A rapid and robust motor for commercial and industrial gates weighing up to 1000kg.

A10 HEAVYWEIGHT

An all-round performer for gates weighing up to 2000kg.

The A10's hybrid custom-designed frequency inverter and high-torque three-phase motor puts it firmly at the top of the food chain. Big, strong and anything but dumb, this juggernaut can haul up to a two tonne gate - and bring it to a comfortable stop just as easily. Fortunately, this giant is friendly - sensitive anti-crushing control protects your car and loved ones.

Main Features

- High push force
- High duty cycle capability
- Extremely rapid operating speed
- Intelligent and smooth speed control
- Multiple programmable features
- Optional DC Converter for reliable battery backup:
  - On-demand battery backup protection
  - Brown-out power failure detection
  - Battery-protection circuitry
  - Integrated battery charger
- Be alerted of gate activity via push notification by connecting a CENTURION GSM device

TECHNICAL SPECIFICATIONS

Technical Data	A10 Endurance		A10 Heavyweight
Input voltage [1]	220V AC +/-10% @ 50Hz		220V AC +/-10% @ 50Hz
Motor voltage	220V AC 3 phase		220V AC 3 phase
Motor power supply [2]	Frequency inverter		Frequency inverter
Current consumption (mains supply)	6A		6A
Operator push force [2]	Standard	Sprint	
Starting	40kgf	25kgf	40kgf
Rated	30kgf	22.5kgf	NA
Gate mass – maximum	1000kg	600kg	2000kg
Gate length - maximum	20m		20m
Gate speed - m/min	Standard	Sprint	
	16m/min	30m/min	13.6m/min
Gate speed - mm/sec	267mm/sec	500mm/sec	267mm/sec
Drive Pinion	20T Module 4		20T Module 4
Maximum daily cycle	750 cycles/day		750 cycles/day
Design life	1 000 000 cycles		1 000 000 cycles
Collision sensing	Electronic		Electronic
Operating temperature	-20°C to +50°C		-20°C to +50°C
Degree of protection	IP54		IP54
Controller incorporated	CP200E / CP201		CP200E / CP201
Mass of unit packed	15.5kg		15.5kg

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

2. Based on 25°C ambient temperature and unit not in direct sunlight

## Sliding Gate Operator Accessories

Passive sensitive edge for protection against crushing. Custom-extruded high-density foam buffer bolted to the leading edge of the gate and any shearing surfaces to provide additional protection for people or vehicles against crushing while the gate is in operation. With simple installation and passive protection, which requires no electrical connection to the motor, this is extremely cost-effective automated gate safety.

P36

GateshoX: The innovative GateshoX system ensures a smooth and quiet ride for your sliding gate. GateshoX not only dramatically reduces sliding gate noise, but also minimises rail wear and corrugation, leading to long-term and reliable operation. The patented suspension system is ideal for high-speed gates, is suitable for angle or round rails and the wheels are incredibly easy to change thanks to their click-in/click-out design.
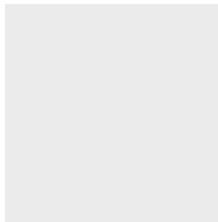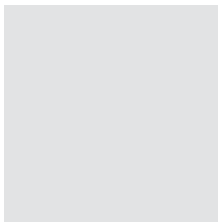
SWING GATE OPERATORS

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.

VERT-X

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

- Exceptionally easy system setup via LCD user interface
- Open-nut drive system and rugged die-cast aluminium construction for reliable operation
- Supports inward and outward-opening gates without needing mechanical endstops
- Automated limit setup for double and single swing gates
- Fail-safe opto-electronic position and collision detection system ensures maximum safety
- Advanced closed-loop speed control for safe and reliable operation, even on inclined gates under windy conditions
- Multiple operating features including Intruder-detection Alarm Modes (a world first)
- Onboard CENTURION code-hopping multichannel receiver with selective add and delete
- Battery backup for uninterrupted operation during power failures

TECHNICAL SPECIFICATIONS

Technical Data	VERT-X
Input voltage [1]	220V AC ±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	2m/335kg
Maximum leaf width for corresponding gate mass [3]	3m/150kg
Gate opening time - typical	11 sec
Maximum daily cycle	250 cycles/day
Design life	150 000 cycles
Operations in standby with standard battery [2]	
Half day	120 cycles
Full day	100 cycles
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

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

2. Can increase battery capacity for longer standby times

3. To secure gat,a lock is recommended when gate is closed

VANTAGE 400 AND VANTAGE 500

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
- Exceptionally easy system setup via LCD user interface
- Supports inward and outward-opening gates without needing mechanical endstops
- High push force
- Full position control
- Fast operating speed, with smooth acceleration and deceleration
- Safe anti-crushing protection
- Multiple operating features including Intruder-detection Alarm Modes (a world first)
- Onboard CENTURION code-hopping multichannel receiver with selective add and delete
- Battery backup for uninterrupted operation during power failures

TECHNICAL SPECIFICATIONS

Technical Data	VANTAGE 400	VANTAGE 500
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 - 7Ah)
Battery charger [1]	CP84SM - 1.8A @ 13.7V	CP84SM - 1.8A @ 13.7V
Push force - maximum	220kgf	220kgf
Operator stroke	400mm	500mm
Maximum leaf width for corresponding gate mass	2m/500kg	2m/750kg
Maximum leaf width for corresponding gate mass [3]	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 cycles	70 cycles
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
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

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

2. Can increase battery capacity for longer standby times

3. To secure gat,a lock is recommended when gate is closed

R3/R5

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.

R3: The logical choice for domestic gates with large pillars

R5: This unit is well-suited for large domestic and light-industrial swing gates

- 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
- 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, enhancing security
- Diagnostic LEDs for easy programming
- Dedicated Pillar Light Relay

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 [2]		
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

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

2. Can increase battery capacity for longer standby times
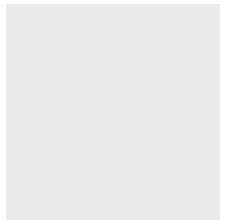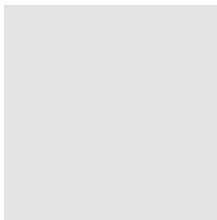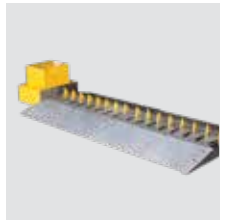
TRAFFIC BARRIERS

Traffic barriers offer a formidable means of controlling vehicular access, and we have gone to great lengths to ensure that Centurion Systems' barriers can handle the heaviest of traffic volumes while simultaneously offering superior security and a multitude of features.

SECTOR II

Introducing the heir to the throne of high-volume vehicular access control. With an updated look that perfectly matches its superior performance, an optimised design for the ultimate in ease of installation and boasting the awe-inspiring speed that made its predecessor king of the access control jungle, the SECTOR II is the embodiment of automation evolution.

Speed. Performance. Intelligence. The SECTOR II is the benchmark against which all others are measured

SECTOR II 3: Rapid, high-volume barrier, 3 metre boom pole

SECTOR II 4.5: High-volume barrier, 4.5 metre boom pole

SECTOR II 6: High-volume barrier, 6 metre boom pole

In addition to the different boom pole lengths available, the SECTOR II's housing is also available in three stylish and modern colour configurations to suit your aesthetic and brand requirements. Enquire at your local CENTURION agent.

Main Features
- High-volume capability
- Battery backup
- Rapid boom pole raising (3 metre version <1.2 sec)
- Easy cable management makes for a neat and professional installation
- Electronics reside at top of enclosure for quick and easy access
- Stylish powder-coated aluminium lid with superior condensation protection
- LCD user interface for simple setup
- Onboard CENTURION code-hopping multichannel receiver with selective add and delete
- Integrated ChronoGuard timer functionality (a world first)
- 18 colours available (premiums and longer lead times may apply to certain colours)

TECHNICAL SPECIFICATIONS

Technical Data	SECTOR II 3	SECTOR II 4.5	SECTOR II 6
Input voltage [1]	220V AC +/-10% @ 50Hz		
Motor voltage	12V DC		
Motor power supply [2]	Battery driven (standard capacity - 7Ah)		
Battery charger	CP84SM – 1.8A @ 13.7 +/-1%		
Current consumption (mains supply)	170mA		
Current consumption (motor rated / peak load)	1/12 A		
Current consumption (quiescent load)	75mA		
Boom pole length	3.0m	4.5m	6.0m
Boom pole raise time	1.2 sec	3 sec	3 sec
Maximum daily cycles	3 000 cycles/day	3 000 cycles/day	3 000 cycles/day
Design life	2 000 000 cycles	1 800 000 cycles	1 500 000 cycles
Operations in standby mode with standard battery [3, 4]	3000		
Half day [4]	3 000 cycles	2 900 cycles	2 900 cycles
Full day [4]	3 000 cycles	2 300 cycles	2 300 cycles
Collision sensing	electronic		
Operating temperature	-15°C to +50°C		
Degree of protection	IP54		
Controller incorporated	S-Series_12		
Onboard receiver type	NOVA code-hopping onboard, multichannel		
Receiver frequency	433MHz		
Receiver code storage capacity	500 Buttons		
Mass of unit packed	44kg	47.5kg	52kg
Packing dimensions	Length: 440mm Width: 350mm Height: 1250mm		

1. Can operate off a solar supply, consult Centurion Systems for assistance
2. Can increase battery capacity for longer standby times
3. Based on operator excluding closing loop detector
4. Limited by maximum daily usage

CENTINEL

When we designed the CENTINEL manual traffic barrier, we had the user in mind. After all, just because it's a manual barrier doesn't mean you have to do all of the work!

We outfitted the CENTINEL with an innovative internal spring balance mechanism – which not only gives the barrier a compact slimline appearance, but also means that the most feather-light of touches can set it in motion

CENTINEL 3: Manual barrier, 3 metre boom pole

CENTINEL 4.5: Manual barrier, 4.5 metre boom pole

CENTINEL 6: Manual barrier, 6 metre boom pole

Main Features

- **Internal spring counterbalance**
  This innovative system contributes both to the CENTINEL's undeniably attractive slimline look and – most importantly – makes raising and lowering a very nearly automated action

- **Professional, compact appearance**
  Sleek and slender, the CENTINEL is a looker and will blend in seamlessly with the aesthetic of any modern business park.

- **Comfortable operating handle**
  You don't need alligator hide on your hands for you to conveniently and comfortably operate the CENTINEL. The actuating handle is designed for comfortable and easy handling of the pole

- **Simple locking system**
  But what if there's heavy traffic flow? Will the hapless guard need to stand there keeping the pole raised until every muscle and sinew aches? Not with a CENTINEL installed! To secure the pole in the raised or lowered position, simply turn the convenient, easy-to-use thumbwheel

- **Strong and durable**
  The CENTINEL will willingly submit to the operator's touch, but its incredibly robust construction ensures that it will firmly stand its ground against the elements

TECHNICAL SPECIFICATIONS

Technical Data	CENTINEL 3	CENTINEL 4.5	CENTINEL 6
Boom pole length [1]	3m	4.5m	6m
Counterbalance spring	Internal		
Mass of unit packed	29kg		
Packing dimensions	Length: 320mm x Width: 310mm x Height: 1120mm		

1   A catchpost is recommended to supportand lock the pole in the lowered position

BARRIER HOUSING SPECIFICATION

	CENTINEL Standard	CENTINEL Grade 430
Application	Inland areas	Coastal plains - no airborne salt
Housing construction	Sheet metal housing, 3mm wall thickness with 5mm mounting plate	
Barrier housing surface protection	Mild steel with epoxy coating.	Grade 3CR12 stainless steel with epoxy coating.
Housing colour	Main Body: Traffic Yellow	Main Body: Traffic Yellow

BOOM POLE SPECIFICATION

Material and profile	Aluminium, round profile with plastic end cap
Surface protection	Epoxy coating
Colour and markings	White with red reflective tape – spiral pattern
Weight	800g/metre
Dimensions	OD 76.2mm x 1.27mm wall thickness
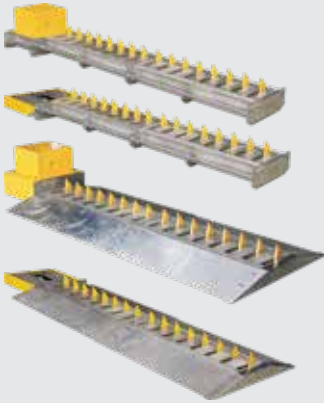
CLAWS

CLAWS barrier spikes are designed to enhance the security at high-volume entry and exit points. They provide a formidable deterrent to would-be criminals and, due to their robust construction, they are very difficult to defeat.

Surface-mount - Direct Drive: For installations that are mounted above the road surface. Uses the SECTOR II's drive mechanism to drive the CLAWS

Surface-mount - Indirect Drive: For installations that are mounted above the road surface. Uses its own drive mechanism and controller, syncronised with the SECTOR II's controller

Flush-mount - Direct Drive: For installations that need to be flush with the roadway. Uses the SECTOR II's drive mechanism to drive the CLAWS

Flush-mount - Indirect Drive: For installations that need to be flush with the roadway. Uses its own drive mechanism and controller, synchronised with the SECTOR II's controller

Main Features

- Modular construction allows for components to be transported and installed with ease
- Adds high security to traffic barrier access controlled entrances and exits
- Robust construction built to withstand impacts from vehicles
- High-speed operation (adjustable)
- High-torque DC motor
- Selectable High Security or Safety Modes
- Reliable battery backup
- Easy to maintain
- High visibility, yellow colour
- Choose from either flush- or surface-mounted models
- Indirect drive models can operate independently of traffic barrier units

TECHNICAL SPECIFICATIONS

Technical Data	Independent Drive CLAWS - Drive Unit	Independent Drive CLAWS with co-installed SECTOR II	Direct Drive CLAWS with co-installed SECTOR II
System input voltage	220V AC +/-10% @ 50Hz[1]	Connects to the SECTOR II Barrier supply[1]	NA
Motor voltage	12V DC	12V DC	NA
Motor power supply	Battery driven (standard capacity - 7Ah)	Connects to the SECTOR II Barrier supply	NA
Battery charger	CP84SM – 1.8A @ 13.7 +/-1%	Connects to the SECTOR II Barrier supply	NA
System current consumption (mains supply)	170mA	300mA	170mA
System current consumption (motor rated / peak load)	2/12 A	3/12 A	4/12 A
System current consumption (quiescent load)	75mA	150mA	75mA
Spike raise time	1.2 sec	1.2 sec	Refer to Co-Installed SECTOR II
Maximum daily cycles	3 000 cycles/day	3 000 cycles/day	3 000 cycles/day
System design life	2 000 000 cycles	1 800 000 cycles	1 000 000 cycles
Operations of system in standby mode with standard battery			
Half day	2 900 cycles	0 cycles	2 900 cycles
Full day	2 300 cycles	0 cycles	2 300 cycles
Collision sensing	electronic	electronic	Refer to Co-Installed SECTOR II
Operating temperature	-15°C to +50°C	-15°C to +50°C	Refer to Co-Installed SECTOR II
Degree of protection	IP54	IP54	Refer to Co-Installed SECTOR II
Controller incorporated	S-Series_12_Claws	S-Series_12_Claws	NA

1. Can operate independently with its own power supply - requires a separate wallbox for the controller, charger and battery

TRAPEX

The TRAPEX barrier fence is a robust and effective barrier designed to prevent pedestrians from circumventing the SECTOR II vehicle access control system. It's tough, all-weather aluminium construction makes it suitable for coastal and inland applications. The robust materials and clever industrial design ensure that the TRAPEX will perform day in and day out, relentlessly, for a very long time.

Main Features

- Clever design and tough construction prevent fence from being pushed aside

- Quick and easy to install - saving you time and money

- All-weather materials ensuring a long, good-looking lifespan

- Intelligent, modular design for ease of transportation and installation

- Semi-assembled modules with comprehensive installation kit

Technical Specifications

Technical Data	TRAPEX
Modular sections length	1.5m; pre-assembled
Vertical members	Six per 1.5m length @ 250mm spacing
Vertical member length that extends above barrier pole	95mm
Vertical member length below barrier pole	692mm
Fence members	Ø 19 aluminium round tube
Mass	1.3kg/m (1.5m module = 2kg)
Aluminium flatbar section	25mm x 5mm
Rivets used to fit the aluminium flatbar	5mm
Lubrication	Q20 on all moving parts

1. CATCHPOST

CENTURION's Catchpost provides additional support for particularly long boom poles, such as the six metre pole on a SECTOR II or CENTINEL barrier, when lowered.

It also incorporates a convenient flap for locking the pole.

2. MIDI TRAFFIC LIGHT

The Midi Traffic Light is an effective vehicular access control ancillary solution that enables the traffic barrier to visually indicate when it is safe for a vehicle to proceed into or out of an access controlled area.

This device makes an excellent accompaniment to the CLAWS roadway spikes system.

3. SECTOR II JACK-KNIFE ASSEMBLY

The SECTOR II Jack-knife Assembly is powder-coated for a beautiful finish and excellent all-weather protection. It allows the boom pole to be installed in areas with limited headroom, such as basements.

The Jack-knife Assembly folds the barrier pole, decreasing the required height in which the SECTOR II barrier operates.

4. BREAKAWAY COUPLING

Allows the boom pole to hinge away from the barrier if it is accidentally knocked, reducing the chance of it being damaged.
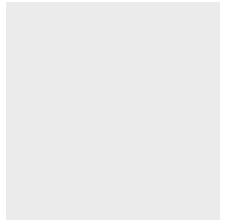
GARAGE DOOR OPERATORS

GARAGE DOOR OPERATORS

Your home is your sanctuary. Your quiet place. You don't want it to sound like a castle lowering its drawbridge every time someone opens the garage door. CENTURION garage door motors respect the sanctity of silence.
Put them to the test!

SDO4

We know that arriving home is more than just some automatic action or daily ritual. It's an experience that's charged with emotion – the feeling of seeing your loved ones, your pets, the big-screen TV and all the other comforts that you miss during the day.

With the SDO4, that experience begins the moment that you open your garage door.

With whisper-quiet operation and movement that's smoother than a Barry White song, the SDO4 garage door operator for tip-up and sectional doors lets you know you're home..

Main Features

- Adjustable speed control
- Infrared Safety Beam Input
- Intuitive LED display and colour-coded buttons for ease of setup and configuration
- Autoclose function (with optional override)
- Door Service Monitor
- Onboard Holiday Lockout feature
- Easy setup with pre-assembled parts
- Powerful lifting force
- Models available for tip-up and sectional doors
- Extended battery life for the ultimate in reliability
- Whisper-quiet operation

TECHNICAL SPECIFICATIONS

Technical Data	T10	T12
Input voltage	220-230V AC @ 50/60Hz[1]	220-230V AC @ 50/60Hz[1]
Motor voltage[1]	24V DC	24V DC
Motor power supply[2] - rated	80W DC	100W DC
Motor supply	Battery supply 2 x 3.4Ah 24V DC	Battery supply 2 x 3.4Ah 24V DC
Maximum door width	6.5 metres	6.5 metres
Maximum door area	12 metres^2	15 metres^2
Maximum lifting capacity	1000N	1200N
Operations in standby mode[2]	12 to 30, dependent on door size, weight, height and duration of power failure	12 to 30, dependent on door size, weight, height and duration of power failure
Opener travel speed	Tip-up 80mm/sec. Sectional 140mm/sec with fully-charged batteries	Tip-up 80mm/sec. Sectional 140mm/sec with fully-charged batteries
Door travel adjustment	Physical end-stops	Physical end-stops
Safety obstruction force system	Built-in menu	Built-in menu
Light	LED 2W	LED 2W
Autoclose	Internal menu option	Internal menu option
Infrared safety beams	Internal menu option	Internal menu option
Onboard receiver type	Code-hopping single channel	Code-hopping single channel
Receiver code storage capacity	20 transmitters	20 transmitters

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

2. Can increase battery capacity for longer standby times

RDO II

This is the way we like to roll! With our RDO II, that is. A 24V DC high-torque motor, operating so quietly you'll need to look at the door just to be sure that it's moving. With an RDO II not even power outages can close you down. Its reliable battery backup will keep you coming and going like there's no tomorrow.

All this opening and closing had better be safe and secure. Utilising CENTURION's ultra-secure code-hopping remote controls, and coupled with its anti-crushing sensitivity, the RDO II has you covered..

Main Features

- Battery backup
- Strong lifting capability
- Whisper-quiet operation
- Anti-crushing protection
- Quick and easy installation
- Wall-mounted controller with Courtesy Light
- Wireless Wall Switch
- Built-in CENTURION code-hopping multichannel receiver for controlling four different functions

TECHNICAL SPECIFICATIONS

Technical Data	RDO II
Input voltage [1]	220V AC +/-10% @ 50Hz
Motor voltage [2]	24V DC
Motor power supply	Battery driven (standard capacity - 1.2Ah)
Battery charger	Plug-In Charger - 250mA @ 13.8V +/- 1%
Current consumption (mains supply)	60mA
Current consumption (motor rated / peak load)	3/10 A
Current consumption (quiescent load)	50mA
Opening speed	100 - 150 mm/sec
Maximum daily cycles	50 cycles/day
Design Life	30 000 cycles
Operations in standby with 1.2Ah battery	40 cycles
Collision sensing	electronic
Operating temperature	-15°C to +50°C
Degree of protection	IP54
Controller incorporated	XTRAC Controller
Onboard receiver type	NOVA code-hopping onboard, multichannel
Receiver frequency	433 MHz
Receiver code storage capacity	22 Buttons
Mass of unit packed	7kg
Packing dimensions	Length: 330mm x Width: 288mm x Height: 180mm

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

2.   Can increase battery capacity for longer standby times
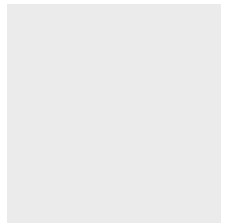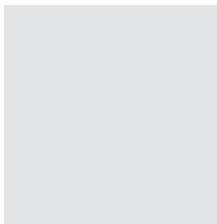
ROLLER-SHUTTER OPERATORS

ROLLER-SHUTTER OPERATORS

The Centurion Systems industrial RSO range has been designed to safely automate extremely heavy roller-shutter doors such as entrances to factories and loading bays. There are four models available, each tailor-made to suit individual installation requirements.

RSO5DC, RSO5R3P, RSO5RE and RSO9

The Centurion Systems industrial RSO range has been designed to safely automate extremely heavy roller-shutter doors such as those at entrances to factories and loading bays. There are four models available, each tailor-made to suit individual installation requirements.

RSO5DC: Incorporates an intelligent LCD controller and reliable battery backup for complete power failure autonomy. It can lift shutters weighing up to 500kg.

RSO5R3P: A powerful 380V, three-phase operator capable of delivering greater starting thrust and also boasts an increased duty cycle, for shutters weighing up to 500kg.

RSO5RE: An endurance model ideal for high-volume automation of shutters weighing up to 500kg. The vastly improved duty cycle and high number of possible daily operations are made possible by a ventilated planetary gearbox.

RSO9: A heavy-duty model utilising a 380V, three-phase power supply enabling it to lift very heavy shutters weighing up to 900kg.

Main Features

- Automate heavy roller-shutters; e.g. entrances to factories, shops and warehouses

- Rock-solid mounting system

- Convenient manual operation

- RSO5DC incorporates full battery backup and LCD interface

- Feature-rich and basic, cost-effective models available

- Safe and reliable position control

- Allows for the connection of safety devices and ancillary equipment[1]

- Integrated ChronoGuard timer functionality (a world first)[1]

- Onboard CENTURION code-hopping multichannel receiver with selective add and delete[1]

- Multiple operating modes, including Intruder-detection Alarm Modes (a world first)[1]

1. RSO5DC

TECHNICAL SPECIFICATIONS

Technical Data	RSO5DC	RSO5R3P	RSO5RE	RSO9
Input voltage	90V - 240V AC, 50Hz	380V AC 3Ø, 50Hz	220V - 240V AC, 50Hz	380V AC 3Ø, 50Hz
Shutter door mass	500kg	500kg	500kg	900kg
Motor voltage	24V DC	380V 3ø	230V AC	380V 3ø
Power	220W	360W	375W	550W
Current	4.6A 1ø	1.5 - 2A 3ø	3Aø	2.2A 3ø
Duty cycle	35%	30%	40%	30%
Temperature protector	70°C	70°C	125°C	115°C
Output shaft rotation	50rpm	35rpm	28rpm	17rpm
Gear ratio	55:1	55:1	64:1	105:1
Gear transmission	Double-row oblique gear	Single-row oblique gear	Double-layer planetary gear	Double-layer oblique gear
Material of gearbox	Aluminium	Aluminium	Cast-iron	Aluminium
Drive type	Chain-driven	Chain-driven	Chain-driven	Chain-driven
Sprocket	9T	9T	9T	10T
Chain	5/8 inch	5/8 inch	5/8 inch	1 inch
Length	450mm	500mm	530mm	600mm
Net weight	9.64kg	12.8kg	20.2kg	22.1kg
Gross weight	10.4kg	13.5kg	21kg	23.0kg
Packing dimensions	Length 265mm x Width: 210mm x Height: 570mm	Length 265mm x Width: 210mm x Height: 570mm	Length 260mm x Width: 200mm x Height: 665mm	Length 345mm x Width:285mm x Height:600mm
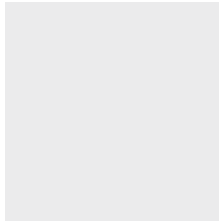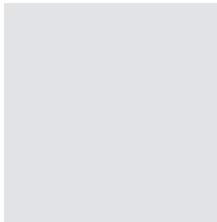
TURNSTILE PHYSICAL ACCESS CONTROL

TURNSTILE FULL-HEIGHT AND WAIST-HEIGHT SPEED GATE

We offer a complete range of full-height, high-security patented turnstiles designed for mid- to high-traffic volume areas. We are able to customise to any specific requirement. We also offer Waist-Heigh Monoleg - turnstile designed for mid- to high-traffic volume areas. They are ideal for controlling movement in a low-security environment.

FULL-HEIGHT TURNSTILES

The Full-height range comes in

- Single 3-arm
- Single 4-arm
- Double 3-arm
- Double 4-arm

Mechanism

- Improved reliability thanks to proximity sensors
- Built-in Fail Safe/Fail Secure changeover options
- Rotary solenoids offer 100% duty cycle with a mean life of up to 30 million cycles
- Improved reliability and longevity using stainless steel and engineering plastics
- Heavy duty tubing and secure internal welding
- Easy installation of mechanism
- Minimal wiring required
- Anti-tamper design
- Maintenance-free
- Rotor automatically returns to locked position
- Nylon mechanism offers better absorption of rotor movement - increased reliability
- 24V with reliable battery backup for power failure protection
- Strong and durable construction with heavy-duty inner tube (2.1mm) and rotary plate (4.5mm)
- Reassuring 2 year warranty on controller and 10 year warranty on mechanical parts

Structure

- Effortless installation with floor installation template

- Modern design
- Overhead space can be closed off thanks to side access to mechanism
- Collapsible rotor for easy handling and moving through restricted space
- Easy access to mechanism through side entry
- Clever design ensures that mounting bolts do not pose tripping hazard
- IP54-rated protection provided for electronics and mechanism
- Flat pack design saving on freight costs

Application

- Recreational areas
- Secured residential compounds
- Corporate reception foyers
- Medium- to high-security industrial areas
- Mining
- Schools and universities

TECHNICAL SPECIFICATIONS

Technical Data	
Input power rating	Single Phase 230 VAC, 50 Hz
Dedicated logic voltage	24V
Power consumption (fail safe, factory supply)	30 W (±5%) @ 220V AC 50Hz
Power consumption (fail secure, optional)	10 W (±5%) @ 220V AC 50Hz
Dimensions	See 'Unit dimensions'
Power rating	Single Phase 230 VAC, 50 Hz
Logic voltage	24V
Operating temperature	0 to 55°C (-25 - 55°C – optional)
IP rating	1P54
Weight	310kg
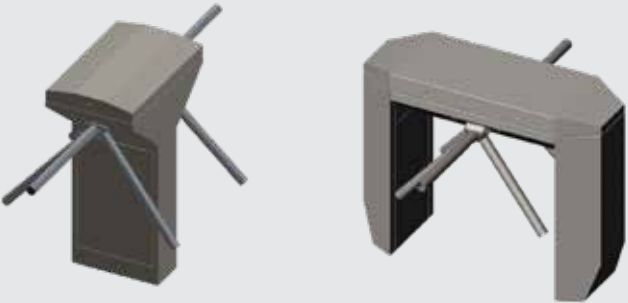
WAIST-HEIGHT TURNSTILES

Both single-leg and double-leg turnstiles come as single and double sided respectively. They are designed for mid- to high-traffic volume areas and ideal for controlling movement in a low-security environment. They also come in both 2-arm and 3-arm variations

Mechanism

- Maintenance- and corrosion-free mechanism (manufactured from engineered plastic and stainless steel)
- Proximity switches for position detection
- Patented rotary solenoid locking / unlocking cam system
- Changeover from failsafe to fail secure without any additional parts and pre-sets on the mechanism
- No adjustable parts
- Lowest carbon footprint mechanism on the market
- Indexing on all models (home position centering)
- High-security manual key override
- Low weight for ease of handling (9Kg)

Mechanism option

- Ultra-high security 11 pin key override with various typologies of master key systems
- Anti-tamper alarm
- LED light indicator

Unit

- 24V Mechanism drive voltage
- CE certified
- Ex/p certified (dedicated models)
- Effortless changeover between fail safe (standard factory supply) and fail secure models
- 5 year mechanical warranty and 1 year electrical warranty

Application

- Recreational areas
- Secured residential compounds
- Corporate reception foyers
- Medium - High security industrial areas
- Schools and universities

TECHNICAL SPECIFICATIONS

Technical Data	
Input power rating	Single Phase 230V AC, 50Hz
Dedicated logic voltage	24V
Power Consumption (fail safe, factory supply)	30W (±5%) @ 220V AC, 50Hz
Power Consumption (fail secure, optional)	10W (±5%) @ 220V AC, 50Hz
Dimension	See Diagram below
Power rating	Single Phase 230V AC, 50Hz
Operating temperature	0 to 55°C (-25 - 55°C – optional)
IP rating	IP54
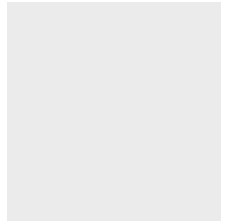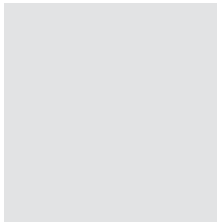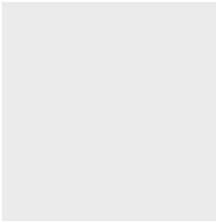
INDUCTIVE LOOP DETECTORS

INDUCTIVE LOOP DETECTORS

Centurion Systems has taken all the hassle out of installing ground loops with our range of highly-sensitive inductive loop detectors for vehicle access applications. Centurion Systems' loop detectors are extremely easy to install and commission and provide useful feedback for on-the-go diagnostics.

FLUX SA AND FLUX 11

Centurion Systems has taken all the hassle out of installing ground loops with our range of highly-sensitive inductive loop detectors for vehicle access applications. CENTURION FLUX loop detectors are extremely easy to install and commission and provide useful feedback for on-the-go diagnostics.

FLUX SA: Fast, intelligent and reliable standalone inductive vehicle loop detector. Very fast detection speed, audio and visual diagnostics and removable terminals make for a unit that is easy to install, commission and maintain.

FLUX 11: 11-pin loop detector available in two models to suit a wide variety of vehicle access applications. A convenient 11-pin plug-in adaptor allows the FLUX 11 to interface seamlessly with the standard loop detector 11-pin bases found in the majority of vehicle access applications.

Main Features

- Very fast detection speed for quick response times

- Easy to install and commission, saving you time and money

- Audible and visual diagnostics for ease of setup and maintenance

- Removable terminals for quick and easy maintenance[1]

- Standardised size allows the FLUX 11 to be incorporated into any existing 11-pin base[2]

- Dedicated reset button to assist with quick maintenance procedures

- Wide, adaptive self-tuning range for outstanding reliability

- Excellent, strong loop field strength for reliable operation

- Compact housing with clever design features enhancing ease of installation and monitoring diagnostics
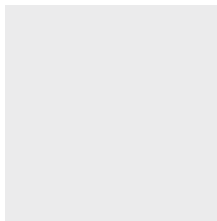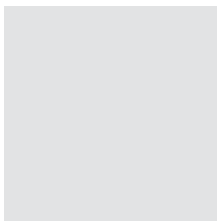
1. FLUX SA   2. FLUX 11

TECHNICAL SPECIFICATIONS

Technical Data	Flux SA	Flux 11 DC Model	Flux 11 AC Model
Input voltage	10V - 40V DC or 7V - 28V AC		220V - 240V AC ±10%, 50Hz (single-phase)
Standby current	50mA		<10mA
Output relay rating	1A @ 125V AC)		
Detection time	4ms @ 100kHz loop frequency 10ms @ 40kHz loop frequency		
Indicators			
Visual	LED indicators showing power, loop fault, 5 LEDs to indicate loop detection level and detect		
Audible	Buzzer with indication of loop detection level and loop fault		
Detector tuning range	15 - 1500μH		
Protection	Isolation transformer with 10kA lightning protection		
Connectors	Removable connectors for easy maintenance		11-pin base
Outputs provided	1 (Configurable as either pulse or presence)		2 (Both pulse and presence)
Mass of unit packed	85g	92g	92g
Packaging dimensions	Length: 63mm x Width: 31mm x Height: 111mm	Length: 45mm x Width: 96mm x Height: 81mm	Length: 45mm x Width: 96mm x Height: 81mm
Degree of protection	IP50		
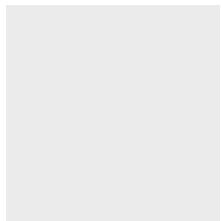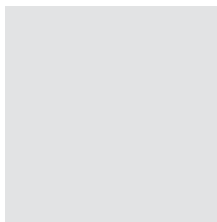
INFRARED SAFETY BEAMS

Safety is paramount in any automated system, and adding a pair of Safety Beams to your installation goes a long way towards preventing injury or property damage.
Centurion Systems' infrared gate Safety Beams are reliable, easy to install and extremely cost-effective.

i5

Cost-effective detection device in applications from safety beams to simple perimeter protection. CENTURION's i5 beams have a range of 40 metres, are self-aligning and are unaffected by the sun.

Main Features

- Wide infrared beam makes for supremely easy beam alignment – no more battling onsite

- Highly cost-effective detection solution

- Easy commissioning thanks to LED indicators

- 40 metre range - suitable for even the widest of entrances

- Compatible with Intruder-detection Alarm functionality (a world first) - greatly improves security

- Wide input voltage range

TECHNICAL SPECIFICATIONS

Technical data	i5
Power supply	12V - 24V DC/AC
Power consumption	Transmitter - 21mA, Receiver - 43mA @ 12V
Maximum distance	40m
Alignment[1]	Automatic – 9m² @ 10m
Output contact rating	5A @ 220V AC (non-inductive)
Operating temperature	-15°C to +55°C
Operating humidity	0% - 90% (non-condensing)
Degree of protection	IP54
Packaging dimensions	Length: 65mm x Width: 58mm x Height 109mm

1. Circular area - assuming parallel surface

PHOTON II

Introducing CENTURION's Photon II infrared gate safety beam with a wireless transmitter.

Photon II makes short work of achieving a safe automation system for even the most challenging of installations. With a wireless transmitter there's no need to tunnel under the driveway. Simply align, attach and you're away!
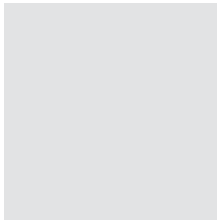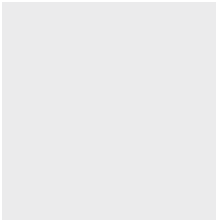
Main Features

- Transmitter is wireless and battery-operated saving time and money

- Two year battery life using two AA Alkaline batteries (included)

- 30 metre operating range - ideal for almost any entrance gate

- Fully ant-proof and weather-resistant enclosure for greater reliability

- Transmitter provides audible feedback for easy setup and battery-low indication

- Low power consumption throughout the system for greater efficiency

- Installer Mode with audible feedback makes alignment a dream

- Elegant slimline construction - only 50mm wide

- Compatible with Intruder-detection Alarms for enhanced perimeter security

TECHNICAL SPECIFICATIONS

Technical data	PHOTON II
Power supply	Transmitter: 2 x AA Alkaline batteries (supplied)[1] Receiver: 12V - 24V DC/AC
Power consumption	Receiver: 30mA @ 12V DC
Transmitter battery life	>2 years
Battery-low indication	Audible beep
Maximum operating distance	30m
Alignment[2]	Automatic - 1m² @ 10m
Output contact	Normally-closed and normally-open potential-free
Output contact rating	3A @ 30V DC (non-inductive)
Operating humidity	0 - 90% (non-condensing)
Housing material	ABS
Lens material	PC

1. Only replace with alkaline batteries; do not use rechargeable batteries with this product
2. Circular area - assuming parallel surface
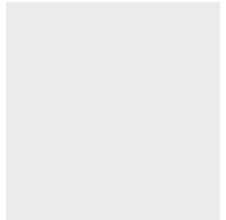
SOLAR PANELS AND ACCESSORIES

SOLAR PANELS AND ACCESSORIES

Centurion Systems now offers a comprehensive range of solar panels and supporting equipment to help you harness the power of the sun, enjoy a greener lifestyle, reduced electricity bills and complete power failure autonomy. There is no better time to go solar!
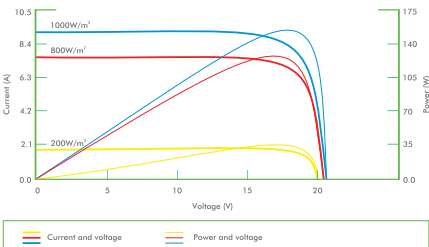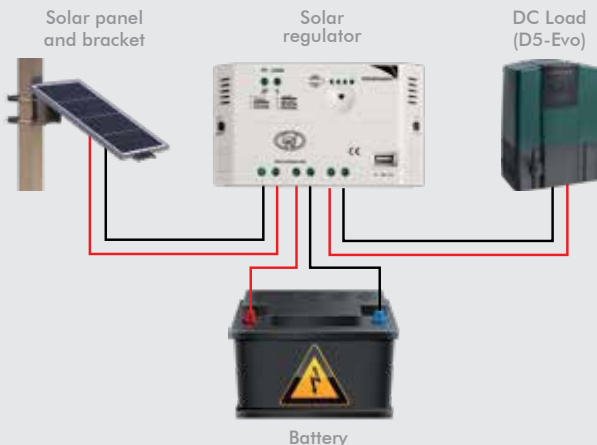
SOLAR

Our range of solar panels is constructed from ultra-efficient polycrystalline and has been designed to provide a reliable and cost-effective alternative energy solution for applications where mains power is either not available, or not desirable. We also supply brackets, regulators, deep cycle batteries and battery enclosures meeting your every solar need.

Main Features

- Minimal voltage drops even in shade

- White tempered glass, EVA resin, weatherproof film and anodised aluminum frame to provide efficient protection from the most severe environmental conditions

- Perfect for grid applications

- Durable with limited maintenance and repair

- Easy to install and set up with our custom-made mounting bracket, saving you time and money

- Complete power failure autonomy, off-the-grid

- Cost-effective and reliable source of power

- Helps decrease your consumption of electricity from the grid

- Easy mounting with a convenient jacking system

- Environmentally friendly

Solar panel
and bracket

Solar
regulator

DC Load
(D5-Evo)

Battery

Solar Regulator 20A CHRG L/SHED PWM USB

For monitoring the condition of your battery according to the power generated by your solar panels.

Universal Solar Panel Bracket Assembly

Robust and versatile galvanised mild steel bracket suitable for mounting a variety of solar panels between 20W and 150W in size.
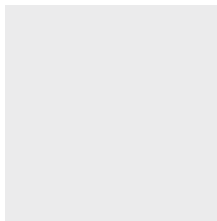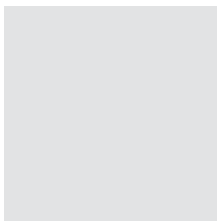
Deep Cycle Battery 12V 33AH

Current-voltage and power-voltage characteristics - various irradiance levels

Current Temperature Coefficient %/°C	+0.06
Voltage Temperature Coefficient %/°C	-0.34
Power Temperature Coefficient %/°C	-0.47
Performance Warranty: 90% output, 12 year 80% output, 25 years	

Solar Panel Technical Specifications

Type of Module	40W	60W	80W	100W	150W
Maximum power	40W	60W	80W	100W	150W
Tolerance	± 3%	± 3%	± 3%	± 3%	± 3%
Open circuit voltage	22.2V	22.2V	22V	22V	22,5V
Short circuit current	2.37A	3.56A	4.85A	6,06A	8,56A
Maximum power voltage	18.2V	18.2V	18V	18V	18,5V
Maximum power current	2.2A	3.3A	4.44A	5,56A	8,11A
Module efficiency	12.84%	14.22%	13.05%	14,9%	15,2%
Solar cell efficiency	17.3%	17.26%	17.2%	17,2%	17,1%
Series fuse rating	15A	15A	15A	15A	15A
Terminal box	IP65	IP65	IP65	IP65	IP65
Maximum system voltage	1000V DC	1000V DC	1000V DC	1000V DC	1000V DC
Operating temperature	-40°C - 85°C	-40°C - 85°C	-40°C - 85°C	-40°C - 85°C	-40°C - 85°C
Dimensions	465mm x 670mm x 25mm	630mm x 670mm x 30mm	915mm x 670mm x 30mm	1005mm x 670mm x 30mm	1480mm x 670mm x 35mm
Weight	4kg	5.1kg	7.3kg	8kg	12kg

TRANSMITTERS AND RECEIVERS

Remote control access is where security and convenience meet. Centurion Systems has a range to comply with your site's unique security requirements, whether basic or advanced.

SABS
Design Institute
AWARDS 2002
I N D U S T R I A L

NOVA REMOTE

Your transmitter is more than a collection of electronics and buttons. It is a digital key into your home, your world, your life – and with CENTURION's award-winning NOVA range of transmitters and receivers, that key is completely unique.

NOVA transmitters offer code-hopping technology, meaning that each code that is transmitted is totally and randomly different to the last code transmitted. This prevents unwanted copying or cloning of the remote itself, and helps keep your home and belongings safe.

Now compatible with the ultra-secure, super-advanced HELIX range of receivers! True peace of mind is at your fingertips.

Main Features

- Award-winning design

- Remotes are quick and easy to open for battery replacement

- Available with one to four buttons[1]

- 433MHz operating frequency

- Remote belt clip doubles as wall mounting bracket

- Weatherproof housing for receivers and remote controls

- Battery Saver Mode with battery-low indication

- Sleek and sophisticated carbon look

- Durable and robust silicone buttons

1. Four-button remote may be used as a six-button remote with certain CENTURION receivers

TECHNICAL SPECIFICATIONS

Technical Data	NOVA Transmitters
Operating frequency	433.92MHz
Frequency stability	0.037ppm/C2/10ppm/year
Power source	GP23 12V Alkaline battery
Operating voltage	12V DC
Minimum operating voltage	5V DC
Operating current	7mA
Operating temperature range	-15°C to 50°C
Packaged weight (including battery)	38g
Packaging dimensions	Length: 37mm x Width: 28mm x Height: 61mm

The body of the remote can be rotated in its clip so that the buttons are best positioned to suit the way in which the remote is held.

Whether operated hanging from the keys in the vehicle ignition or with a bunch of keys in the hand or simply by itself, the CENTURION remote is comfortable to use.

NOVA HELIX RECEIVER

The CENTURION NOVA HELIX system incorporates code-hopping technology to offer the ultimate security in remote control.

A unique, randomly-changing code is transmitted with each operation, making it virtually impossible to duplicate the system. The receiver uses self-learning technology, making it quick and easy to set up.

Single-channel receivers: Ultra-secure code-hopping technology to ensure that criminals can't learn their own remotes into your system. NOVA HELIX single-channel receivers are ideal for activating a single function such as opening a gate or triggering a garage door operator.

Multichannel receivers: Up to four different activations with Centurion Systems' NOVA HELIX multichannel receivers. Open a gate for vehicles, for pedestrians, switch on a Pillar Light and activate Holiday Lockout Mode - all using a single receiver.

Main Features

- Features secure code-hopping technology
- Receivers are self-learning, with either one, two or four channels
- Receivers incorporate stable narrow-band technology
- Highly robust dust-proof and weatherproof enclosures
- Excellent immunity to external interference for outstanding reliability
- High sensitivity delivers improved range
- Choose between ultra-secure Master Learning and super easy Link Learning
- Learn links can be disabled for added security
- Supports SmartSwitch II interfacing capabilities
- Convenient Autolearn feature
- Adjustable pulse time

TECHNICAL SPECIFICATIONS

Technical Data	Single-channel Receiver	Multichannel Receiver
Operating frequency	433.92MHz	
Supply voltage	12V – 24V DC	
Quiescent current @ 12V DC	11mA	
Maximum current @ 12V DC	40mA	
Operating temperature	-15°C to 50°C	
Humidity	0 – 90% (non-condensing)	
Sensitivity	-115dB	
Self-learning memory	62 buttons	250 buttons
Receiver enclosure	UV stabilised ABS	
Degree of protection	IP54	
Packaged weight	65g	145g
Packaging dimensions	Length: 78mm x Width: 58mm Height: 31mm	Length: 117mm x Width: 67mm x Height: 35mm

SUPAHELIX

SupaHelix hasn't just raised the bar in multi-unit access control – it's changed the game completely. Its high-security controller with intuitive navigation interface makes for an access control system that delivers unmatched convenience, security, logging and administration. With SupaHelix, you'll enjoy a multitude of features as well as easy administration and event logging for your peace of mind.

Main Features

- 10 000 user capacity - perfect for high-density residential complexes

- Large LCD screen and four-button navigation make setup child's play

- Robust, interference-free remote control learning

- Transaction logging for ease of user activity and system diagnostics

- Easy management of individual access - users can be selectively added or deleted within groups and sub-groups

- USB port input for backup of system memory and bootloading

- Three flexible input/output channels - can each be configured as timed, momentary or latched

- Removable connectors - for ease of setup and maintenance

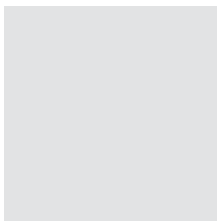- SD card contains entire system's data - makes for quick recovery and improves data security

TECHNICAL SPECIFICATIONS

Technical Data	SupaHelix Programming Console
Supply voltage	10.5V - 30V DC
Standby current	12V:100mA (110mA)
	24V: 70mA (80mA)
Maximum current	12V: 270mA (500mA)
	24V: 230mA (400mA)
Operating temperature	-20°C to +70°C
Output rating	Open collector - maximum current 50mA per channel
Display	2.4 inch 128 x 64 transflective with backlight
Housing material	ABS
Degree of protection	IP50
Weight	370g
Packaging dimensions	Length: 171mm x Width: 47mm x Height: 232mm

Functional Data	CP104 Receiver V3.1 (or later)
Supply voltage	10.5V - 30V DC (powered through the SupaHelix)
Operating frequency	433.92 MHz
Sensitivity	110dB
Degree of protection	IP54
Maximum distance between a Programming Console and receiver	250m
Packaging dimensions	Length: 78mm x Width: 58mm x Height: 31mm

Technical Data	SupaHelix
Control three channels	√
Easily add and delete remote buttons	√
Visual diagnostics	√
Transaction logging	√
System backup and restore	√
Daylight savings time feature	√
Memory	10 000 remote buttons
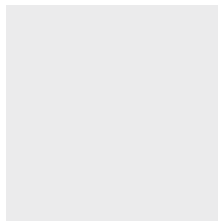
GSM-BASED MONITORING AND CONTROL DEVICES

GSM-BASED MONITORING AND CONTROL DEVICES

GSM modules are the wave of the future when it comes to high-security – yet cost-effective – monitoring and control. GSM modules from Centurion Systems allow you to monitor and control electrical devices using your mobile phone or landline, giving you the freedom and peace of mind to take home security with you wherever you go.

G-ULTRA

With the G-ULTRA, your entire world fits into the palm of your hand, giving you complete control at your fingertips. This is the evolution of GSM technology, designed to offer you the ultimate flexible, mobile-based access control and monitoring solution and allowing you to transcend archaic notions of what GSM can achieve.

Unbridled. Unchained. Unmatched. Ultra.

Main Features
- Monitor up to four electrical devices by receiving push notifications
- Use the outputs to control up to six devices from your phone (two additional onboard relays)
- Intelligent monitoring of CENTURION gate motors' status outputs (for example gate opening, gate left open, etc.)
- Suitable for a wide variety of access automation applications
- Time-barring and visitor control – ideal for B & Bs and guesthouses
- LCD screen for easy access to diagnostics
- Activation via intuitive mobile app
- Easy setup via G-WEB PLUS online interface

Customisable for:
- B & Bs and guesthouses – with flexible scheduling, time-barring and automatic activations
- Complexes – 1500 user memory
- Existing gate motors – open, close and intelligently monitor your gate status, all via your phone!
- Access automation – control a multitude of access control devices including gate motors, traffic barriers and garage door operators
- Miscellaneous security applications – be notified via SMS, missed call, email or push notification of alarm activations, electric fence triggers and mains power failures

TECHNICAL SPECIFICATIONS

Supply voltage range	11-24VDC
Maximum current draw	300mA @ 12VDC
Input / output current rating	50mA (Open collector)
Relay contact current rating	1A, 30V AC/DC (Resistive)
Input sense voltage range	0-24VDC (0-1.6V low input state, 5V-24V high input state)
SIM card	Micro format, activated Vodacom® SIM card supplied. **NOTE:** The supplied SIM card may only be used with this specific G-ULTRA device. The SIM card will be deactivated and blacklisted upon insertion into any other GSM device.
Configurable input /output channels	4
Number of relays	2
Memory capacity	• 1500 Access numbers • 5000 Event logs • 20 Access Profiles • 1 Custom Welcoming SMS message for new access numbers • 20 Custom output activation SMS messages (from user to device) • 30 Custom input notification SMS/email messages (from device to user) • 100 Visitor time-barring windows (Windows are the periods between two dates) • 30 Generic time-barring windows (Windows are weekly recurring) • 10 Output activation schedules (schedules are weekly recurring) • 3 Daylight Saving Periods • 4 Input to output mapping confgurations

G-SPEAK ULTRA

Answer your intercom from anywhere in the world for maximum security and convenience.

The G-SPEAK ULTRA promotes the ultimate in convenience and peace of mind by combining wireless GSM technology with CENTURION's futuristic and stylish ULTRA interface. Infused with the DNA of innovation, the G-SPEAK ULTRA allows wireless communication between the user and the intercom gate station, effectively turning the user's phone into the intercom handset.

Main Features

- Answer your intercom - and open your gate - from anywhere

- Two call buttons - learn up to two numbers per call button

- Call buttons can be individually time-barred

- Easy programming via G-WEB PLUS

- LCD screen for easy access to diagnostics

- No messy and expensive wiring

- Intelligent monitoring of CENTURION gate motors' status outputs (for example gate opening, gate left open, etc.)

- Time-barring: Supported on Access Numbers, Inputs and Outputs

TECHNICAL SPECIFICATIONS

Technical Data	G-SPEAK ULTRA
Supply voltage range	11-24V DC
Maximum current draw	300mA @ 12V DC
Input/output current rating	50mA (Open collector)
Input sense voltage range	0-24V DC (0-1.6V Low-input state, 5V-24V High-input state)
SIM Card	Micro-format, activated Vodacom SIM card supplied [1, 2]
Number of configurable input/output channels	4
Call buttons on calling module	2
Call confirmation at calling module	Yes
Speech volume	Adjustable at calling module using call buttons
Calling module illumination	Call Buttons and labels with back-lit white LEDs
Memory Capacity	• 5000 Event logs • 20 Access profiles • 1 Custom welcoming SMS message for new access numbers • 20 Custom output activation SMS messages (from user to device) • 30 Custom input notification SMS/email messages (from device to user) • 100 Visitor time-barring windows (windows are the periods between two dates) • 30 Generic time-barring windows (windows are weekly recurring) • 10 Output activation schedules (schedules are weekly recurring) • 3 Daylight saving periods • 4 Input to output mapping configurations
GSM	Quad-band: GSM850, GSM900,DCS1800, PCS1900 GPRS Class 12

1. May not be used in devices other than G-SPEAK ULTRA.
2. Remains the property of Centurion Systems (Pty) Ltd.

UNLEASH THE POWER OF THE ULTRA RANGE WITH THE G-REMOTE APP

G-REMOTE

Experience complete convenience and control with the G-REMOTE mobile application, an intuitive command centre to monitor and activate your CENTURION GSM devices using only your smartphone.

Main Features

- Unbelievably cost-effective monitoring and control solution – costs less than 1c per activation or notification

- Activate device outputs with a single tap

- Choose from a range of custom icons to represent the functionality associated with each button

- Personalise your G-REMOTE experience by customising button colours and assigning unique tones for each device linked to a profile

- G-REMOTE comes with built-in text-to-speech functionality

- Device monitoring via push notifications with the ability to block notifications for each individual phone

- The G-REMOTE app boasts a dedicated screen displaying critical system information such as airtime balances and device signal strength

- Visible IOs can be configured for each Access Profile

- Each G-REMOTE instance can have access to multiple devices

G-WEB ULTRA

Whether you're attending to call-outs, quoting clients or doing installations, you have the kind of job that means you're always on the road and always on the move. With our new G-WEB ULTRA mobile app, you can set up, manage and configure your clients' ULTRA GSM devices from anywhere using your phone.

- Setup, manage and configure your client's ULTRA devices from anywhere
- Pre-loaded with wiring diagrams for a variety of different applications
- A detailed configuration audit log makes it easy to track changes made to the system
- Add and delete users and devices, edit device settings, view transaction logs and much more
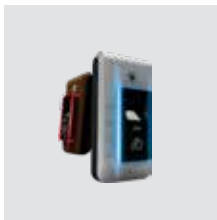
ACCESS CONTROL SYSTEMS

ACCESS CONTROL SYSTEMS

Unlock the future of security with CENTURION's diverse range
of proximity and biometric access control devices.

SOLO is designed for small standalone access control applications where security, cost and simplicity are important. This reader allows for easy programming of up to 50 user tags as well as selective, easy adding and deleting of users thanks to the reader's exceptionally user-friendly LED-based interface.

SOLO

Main Features

- 50 user tag memory
- 13.56MHz operating frequency
- Excellent read range
- Easy programming of user tags
- Selectively add and delete tags
- Free-exit input
- Alarm output for:
    - Door Open
    - Door Forced
- Optional secure link (SmartSwitch II)
- Weatherproof reader (surface and flush-mount)
- Optional anti-knock shield for reader

TECHNICAL SPECIFICATIONS

Technical Data	SOLO
Input voltage	10V - 12V AC or 11V - 15V DC
Current draw	
Quiescent	110mA
Maximum	150mA
Tag frequency	13.56MHz
Read range	80 - 100mm
Reader dimensions	
Surface-mount	Length: 85mm x Width: 29mm x Height:129mm
Flush-mount	Length: 85mm x Width: 15mm x Height:125mm
Weight	0.1kg
Temperature range	-20°C to 50°C
Humidity	0 – 90% (non-condensing)
Degree of protection	IP55

Start as a standalone proximity unit and expand into a powerful networked system with up to 32 readers. A handy three-digit LED display allows for easy programming of user tags and Lattice's user-friendly interface makes selective adding and deleting of tags veritable child's play. For added functionality and even simpler administration, the system can be interfaced with the LatticeWARE computer software package. Lattice allows for the addition of up to 1000 user tags.

LATTICE

Main Features

- 1000 user tag memory
- 13.56MHz operating frequency
- Start as standalone and add up to 31 Slave Heads
- Easy programming of user tags, made possible by a three-digit LED display
- Selectively add and delete tags
- Free-exit input
- Alarm output for:
  - Door Open
  - Door Forced
- Optional secure link (SmartSwitch II)
- Anti-passback
- Backup Memory Module
- Weatherproof reader (surface and flush-mount)
- Optional anti-knock shield for reader

TECHNICAL SPECIFICATIONS

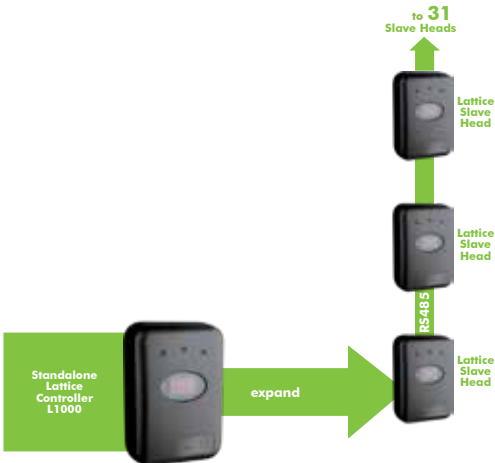| Technical Data	L1000	LSH
Input voltage	9V - 12V AC or 2V - 15V DC	
Current draw		
Quiescent	110mA	110mA
Maximum	170mA	150mA
Tag frequency	13.56MHz	
Read range	80 - 100mm	
Reader dimensions		
Surface-mount	Length: 85mm x Width: 29mm x Height:129mm	
Flush-mount	Length: 85mm x Width: 15mm x Height:125mm	
Weight	0.1kg	
Temperature range	-20°C to 50°C	
Humidity	0 – 90% (non-condensing)	
Degree of protection	IP55	

LATTICEWARE

Management software for the Lattice proximity access control system.

The LatticeWARE software is intuitive, easy to use and greatly enhances the functionality of the Lattice system.

Main Features

The Lattice system, whether a standalone reader or network, can be further scaled by adding a PC. The PC or Laptop will become the Lattice server, which will link to the brains of the operation, the L1000, via a Lattice Take-up Head (TUH). The TUH provides the system administrator with a convenient tag reader for initial tag take-up and administration.

- Interface with the Lattice system at any stage
- Complete and easy setup
- Full management of the system
- Multiple operating reports with export capability
- LatticeWARE is accessible from any PC in a networked system

to **31**
Slave Heads

Lattice
Slave
Head

Lattice
Slave
Head

RS485

Standalone
Lattice
Controller
L1000

expand

Lattice
Slave
Head

The CENTURION SMARTGUARD range provides efficient, secure keyless access control by enabling users to store up to 1000 unique codes comprising one to ten digits in its non-volatile memory. A variety of electrical devices can be activated (including gate operators, alarm panels, water pumps, etc.) by making use of one or more of the outputs provided.

SMARTGUARD: Multi-function, high-security, wired, keypad access control.

SMARTGUARDair: Taking SMARTGUARD keypad access control to the next level by adding wireless connectivity.

Main Features

- SMARTGUARD for hard-wired installations
- SMARTGUARDair for wireless, easy installations
- 1000 unique codes using one to ten digits
- Three[1] / 15[2] channel output
- Selectively add and delete user codes
- Backup Memory Module
- Limited uses counter
- Fully weatherproof with backlit keypad
- SmartSwitch for tamper-proof outputs[1]
- Operates on two AA Alkaline batteries[2], or a separate 12V power supply
- Up to two years of battery life with up to 300 uses per day[2]
- Operating range of up to 30 metres[2]
- Compatible with CENTURION code-hopping receivers[2]
- Optional anti-knock shield

1. SMARTGUARD
2. SMARTGUARDair

TECHNICAL SPECIFICATIONS

Technical Data	SMARTGUARD	SMARTGUARDair
Input voltage	12V - 24V AC/DC	2 x AA Alkaline batteries (included)
Current	32mA (standby) – 180mA (max)	NA
Operating temperature	-20°C to +60°C	-18°C to +55°C
Operating range	NA	Up to 30m[1]
Operating frequency	NA	433MHz
Outputs	Three (One relay output, two open collector outputs) Up to 15 individual channels	Up to 15 individual channels[2]
Output pulse time range	1 – 255 sec (adjustable) or latched	NA
Memory	1 000 user codes	
Memory retention	>200 years	
Housing material	Polycarbonate	
Degree of protection	IP55	
Packaging weight	215g	

1. This is specified as Line of Sight range
2. Requires CENTURION code-hopping receiver(s)

ViRDI

The ViRDI range of fingerprint authentication readers provides the highest level of security and the ultimate in convenience.

Using cutting-edge technology, ViRDI delivers comprehensive biometric access control solutions for both standalone and networked applications and offers excellent expandability.

Main Features

- Patented ViRDI Fake Fingerprint Detection - can detect fingerprints made from paper, silicon, wax, etc. for exceptional security
- Fast authentication speed for improved efficiency
- Can operate in a standalone mode or on a TCP/IP network, RS-232, RS-485, Wiegand
- High user fingerprint capacity
- Access Control, Time and Attendance and Meal Control[1]
- Wi-Fi connectivity with smart phone application for full user setup and administration from anywhere in the world with network coverage[1]
- Registration and authentication levels set by user for added control
- High-performance processor
- Patented search algorithm

1. Certain models

ViRDI TEMPLATE MANAGEMENT SOFTWARE

Sophisticated device and template management application with powerful access control functionality and optional Time & Attendance and Meal Management modules.

Main Features

- Multiple terminal management
- Client/Server environment
- TCP/IP communication
- ERP and Groupware System Interface
- Firmware upgrade functionality
- Database backup
- Multi-language support

SAFLEC

An excellent access control system for small, medium and large, networked installations. Besides the proximity access control readers, the system can cater for many different readers such as biometric readers, Time and Attendance compliant readers, and keypad access control.

The network integrates with various protocols such as Wiegand; RS-485; RS-232 allowing for networking flexibility.

Main Features

- Controller-based logic - the system can function even if the IT infrastructure fails
- Easy, user-friendly installation and administration
- Anti-passback, timed Anti-passback and Zone Control
- Flexible Time and Attendance exporting
- Site-based configuration and hardware filtering
- Graphical event and alert monitoring and control
- PC-based actions for controlling third party devices such as CCTV, intrusion and fire systems
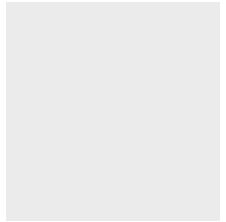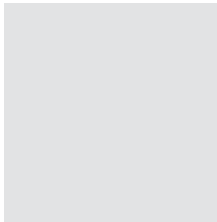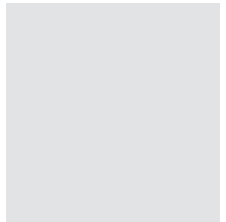- OLED Display for diagnostics

Door Controllers
SDC-320, SDC-620
and SDC-650

Proximity readers
SSR-201 and
SSR-202

SACS Corporate
Edition
Sss-110

INTERCOM SYSTEMS

An intercom completes any access control system by providing a means for the user of screening visitors before granting access, thereby significantly increasing security.

POLOPHONE

The POLOphone is an incredibly versatile and reliable audio intercom for domestic and small commercial or industrial installations. Using only two wires, the award-winning POLOphone system is simple, quick and easy to install and is expandable up to five components with a maximum of two Entry Panels. This intercom system showcases a happy union of exquisite form and the ultimate in function, and makes for a formidable and cost-effective home security system.

Main Features

- Only two wires for a simple, quick and easy installation
- Expandable up to five components with a maximum of two Entry Panels
- Each panel fitted with two Call Buttons
- Single or dual call button Modes of Operation
- Intercommunication between two groups of Handsets
- Award-winning style Handset
- Each handset incorporates:
  - Gate release for each Entry Panel
  - Auxiliary control button
  - Intercommunication Call Button
  - Gate status LED
- 12V DC operation with optional battery backup
- Built-in lightning protection
- To maximise the security of the installation an optional POLOswitch may be fitted

System Expandability and Operation
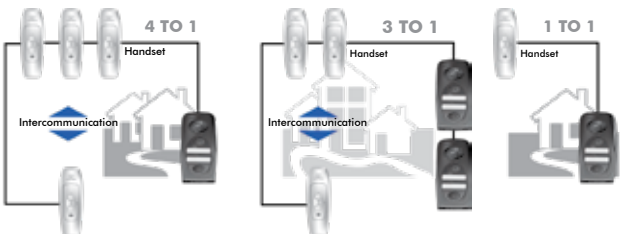
MKII

A multi-unit intercom system that allows convenient screening of visitors at the entrance to large residential or business properties before allowing access. The system can be managed and programmed via a secure website. Since the system operates via GSM technology, there is no need for additional wiring other than the mains supply, making for a quick and easy installation. The MKII system also features greater security against SIM card theft by using new embedded SIM technology, thereby obviating the need for a removable SIM card.

Main Features

- Quick and easy installation, no wiring other than mains supply – operates via cellular network
- Greater security against SIM card theft using new embedded SIM technology - SIM card not required
- Mobile or fixed line telephone doubles as an intercom handset and can activate the entrance gate and two other access devices
- Visitor may select from three contact numbers to call
- Allows for visitor departure control (Free-exit facility)
- Convenient web-based interface for system updating and reporting
- Programming can be done online[2] or manually at the unit
- Online resident database administration
- Battery backup and built-in lightning protection
- Robust and durable entry panel
- CENTURION code-hopping remote control integration and management[1]
- Time-based access control
- PIN code entry (two pre-programmed codes per unit)
- Bulk SMS and email to complex residents
- Individual resident reporting for phone bills and gate openings
- Both successful and attempted-only gate openings are reported
- Unlimited, controlled access for residents
- Ability to communicate with security personnel at the gate
- Back-lit LCD display (double line)
- Weatherproof enclosure suitable for outdoor or indoor environments
- Quick and reliable synchronisation and firmware updating
- Both successful and attempted-only gate openings are recorded

1. Built into the MKII - requires MKII CENTURION Loader, available from Centurion Systems
2. Requires a web access voucher

WIZO WIRELESS CONNECTION

WIZO WIRELESS AUTOMATION

The WiZo-Link wireless automation device is your gateway to a wireless future. Using mesh network technology, the WiZo creates fully wireless connections between your appliances, adapting to the environment for the ultimate in flexibility.

WIZO-LINK

WiZo-Link uses radio technology known as a Mesh Network. This may be described as an invisible layer of radio communications (think of these as roads) where every device (WiZo-Link) is continually acting as a repeater for all the signals (traffic or vehicles) in the network, even if these signals are not associated with that WiZo-Link.

Direct distances between WiZo-Link devices can be as far as 1km (line-of-sight), but as with all RF devices reduces inside buildings and through walls to around 100m to 200m.

Main Features

- Make anything wireless thanks to mesh network technology
- Range is no longer an issue – extendable range with redundancy
- Not reliant on line-of-sight
- Control a wide variety of appliances with a centralised entry point GSM device
- Eliminates wired civils – no need to deface your property and spend large amounts of money
- Bidirectional communication
- A virtually unlimited list of possible applications - it's home automation made simple, and wireless!
- WiZo networks can be grown to almost any size. One could for example, start by switching on just one outside light and gradually add to your network until there is a considerable number of 'nodes' in your network, doing a wide variety of functions

TECHNICAL SPECIFICATIONs

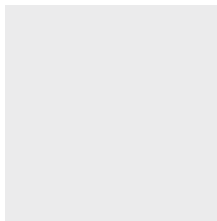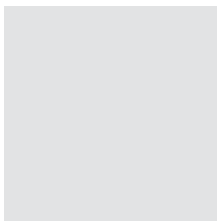| Technical Data	WiZo-Link
Supply voltage	11.5V - 24V DC
Average current consumption	30mA
Peak current consumption	50mA
Operating temperature range	-15°C - 50°C
Maximum number of wizo-links in a network	50
Number of outputs to which a single input can link	10
Number of inputs that can be linked to a single output	10
Weight	65g
Dimensions	78mm W x 58mm D x 31mm H
Humidity	0 – 90% (non-condensing)

OPTIONAL WIZO-SOLAR

Optional: Take wireless convenience to the next level with the WiZo Solar: a fully autonomous, battery-powered module that can be used either as a signal repeater to extend the network range, or as a standalone monitoring solution

Main features

- Convenient and flexible – can be mounted anywhere without having to run electrical wires
- No power supply needed – battery is charged via solar power
- Extend the range of an existing WiZo network
- Robust monitoring solution – use the included input* to remotely monitor fluid levels and other variable states
- Kit includes convenient solar mounting bracket

*The WiZo Solar does not have an output, and can therefore not be used as an activation device
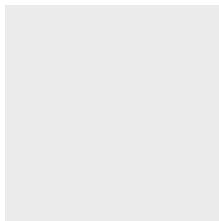
FAAC TRAFFIC BOLLARDS

J-SERIES BOLLARDS

This bollard solves transit and/or parking control problems without needing electrical power (making it particularly suitable for use in historical city centres). The bollard is key-operated and automatically lifted by a gas operator. The bollard is lowered by using the same key and pressing on the head.

The FAAC Automatic J200 HA is especially suitable for the regulation of traffic in residential areas, providing intelligent control, while minimising the aesthetic impact. The system can be activated using commands executed by authorised personnel or automatic commands at a predetermined time.

J200 HA RETRACTABLE TRAFFIC BOLLARD

Main Features

- Power supply and wiring not required
- Kept lock in locked position (against accidental release)
- Simple and safe movements thanks to the dedicated release key
- Fully-retractable
- Semi-automatic traffic bollard
- Solves transit and/or parking control problems without needing electrical power
- Key-operated and automatically lifted by a gas operator
- Easy to transport, store and install

TECHNICAL SPECIFICATIONS

Technical Data	J200
Handling	Hydraulic actuator
Cylinder stroke	600mm
Cylinder diameter	200mm
Material cylinder version	Steel Fe 360 (5mm)
Material special steel version	AISI 316 (5mm thick)
The upper cylinder (head)	Aluminium RAL 9006
Raising time	Circa 5sec
Lowering time	Circa 7sec
Hydraulic pump power	230V AC +6% - 10%; 50 Hz
Absorption	230W
Degree of protection	IP56
Standard reflective strip	Height 25mm
Manual lowering	Possible with mechanical release hydraulic circuit
Total weight	90Kg
Operating temperature	-15°C / +55°C
Operating temperature with heater (optional)	-25°C / +55°C
Dimensions	400mm x 500mm x 800 mm
Cable connection	Standard 16 +1 leads, minimum 1.5 mm (not supplied)

The FAAC J275 HA Automatic retractable traffic bollard is recommended for all areas with high traffic volumes, i.e. commercial, industrial and urban restricted access areas.

It can be operated on command by authorised personnel or through automatic commands.

FAAC J275 HA RETRACTABLE TRAFFIC BOLLARD

- Suitable for high-frequency use
- Easy maintenance (can be performed by a single person)
- "Gentle stop" function to ensure a gentle stop on the low limit switch

TECHNICAL SPECIFICATIONS

Technical Data	J275 HA H600	J275 HA V2 H600 INOX	J275 HA V2 H800	J275HA V2 H800 INOX
Cylinder height	600mm	600mm	800mm	800mm
Cylinder diameter	275mm	275mm	275mm	275mm
Cylinder material	Steel S235JR EN 10219 (thick. 7mm)	AISI 316L satin finished (thick. 6mm)	Steel S235JR EN 10219 (thick. 7mm)	AISI 316L satin finished (thick. 6mm)
Cylinder material head	RAL 9006 Aluminium	RAL 9006 Aluminium	RAL 9006 Aluminium	RAL 9006 Aluminium
Raising time	5 seconds	5 seconds	7 seconds	7 seconds
Lowering time (standard)	3.5 seconds	3.5 seconds	4.5 seconds	4.5 seconds
Lowering time (rapid)	YES (selectable)	YES (selectable)	YES (selectable)	YES (selectable)
Emergency lowering time	1.2 seconds	1.2 seconds	1.5 seconds	1.5 seconds
Raising obstacle detection device	YES	YES	YES	YES
Release device	YES	YES	YES	YES
Power supply voltage	220-240V ~ 50/60Hz	220-240V ~ 50/60Hz	220-240V ~ 50/60Hz	220-240V ~ 50/60Hz
Max power	22 W	220W	220W	220W
Hydraulic pump unit protection class	IP67	IP67	IP67	IP67
Impact resistance	38 000J	67 000J	38 000J	67 000J
Crash resistance	128 000J	207 000J	128 000J	207 000J
Total weight	167 Kg	167Kg	195Kg	195Kg
Operating ambient temperature	-15°C / +55°C	-15°C / +55°C	-15°C / +55°C	-15°C / +55°C
Operating ambient temperature with heater	-25°C / +55°C	-25°C / +55°C	-25°C / +55°C	-25°C / +55°C
Walled in pit with cylinder profile (LxWxH)	560mm x 560mm x 950 mm	560mm x 560 mm x 1220mm	560mm x 560mm x 950mm	560mm x 560mm x 1220 mm

J355 HA-M30 is the new FAAC crash-rated bollard conceived for perimeter protection applications. It has been specifically designed for the protection of sensitive areas. The bollard has been successfully certified in accordance with ASTM F 2656–07 Standard.

J355 HA M30 RETRACTABLE TRAFFIC BOLLARD

Main Features

- Specifically designed for the protection of sensitive areas
- The bollard has been certified in accordance to ASTM F 2656-07 Standard Test Method for Vehicle Crash Testing of Perimeter Barriers, on resistance class M30
- The bollard has an all in one concept, a built in hydraulic drive unit
- Emergency fast operation circuit option - for rapid movement
- No pipes with oil under pressure underground ducts to avoid leakages or failure risks
- Built-in LED lights
- Stainless steel internal fixing frame

TECHNICAL SPECIFICATIONS

Technical Data	J355 HA M30
Drive	By Hydraulic unit
Cylinder stroke	1000mm
Cylinder diameter	355mm
Cylinder steel sheet thickness	16mm
Cylinder material	S355JR EN10210
Reflective strip standards height	55mm
Raising time	About 6 seconds
Raising time with E.F.O	About 1.5 seconds
Descent time	about 2 seconds
Impact resistance	150KJ
Break in resistance	656KJ

J355HA-M50 is the new FAAC crash-rated bollard conceived for perimeter protection applications. It has been specifically designed for the protection of sensitive areas.

The bollard can be used for a variety of applications, such as value protection and to allow access to a sensitive area as follows:

J355 HA M50 RETRACTABLE TRAFFIC BOLLARD

For use in:

- Embassies
- Consulates
- Public offices
- Banks etc.

TECHNICAL SPECIFICATIONS

Technical Data	J355 HA M50	J355 HA M50 EFO	J355 HA M50 INOX	J355 HA M50 EFO INOX
Cylinder height from ground	1200mm	1200mm	1200mm	1200mm
Cylinder diameter	355mm	355mm	355mm	355mm
Cylinder material	Steel S355JR EN10210 (16mm thick)			
Cylinder treatment	Cataphoresis and polyester powder paint, dark grey metallised RAL 7021		AISI 316L satin finishing	
Raising time	~6 s	~6 s	~6 s	~6 s
Descent time	~3 s	~3 s	~3 s	~3 s
Emergency descent device	NO	YES (EFO)	NO	YES (EFO)
Emergency descent time	~3 s	~3 s	~3 s	~3 s
Descent time	~3 s	~3 s	~3 s	~3 s
Release device	optional	optional	optional	optional
Power supply voltage	220-240V ~ 50/60Hz	220-240V ~ 50/60Hz	220-240V ~ 50/60Hz	220-240V ~ 50/60Hz
Max. power	3,9Kw	3,9Kw	3,9Kw	3,9Kw
Hydraulic pump unit protection class	IP67	IP67	IP67	IP67
Type of use	Use in security areas			
Pit weight	235Kg	235Kg	235Kg	235Kg
Traffic bollard weight	850Kg	860Kg	850Kg	860Kg
Operating ambient temperature	-15°C / +55°C	-15°C / +55°C	-15°C / +55°C	-15°C / +55°C
Operating ambient temperature with heater	-40°C / +55°C	-40°C / +55°C	-40°C / +55°C	-40°C / +55°C
Walled in pit with cylinder profile (LxWxH)	570mm x 770mm x 1730 mm	570mm x 770mm x 1730mm	570mm x 770mm x 1730mm	570mm x 770mm x 1730 mm
Excavation dimensions (LxWxH)	3100mm x 1600mm x 1850mm	3100mm x 1600mm x 1850mm	3100mm x 1600mm x 1850mm	3100mm x 1600mm x 1850mm
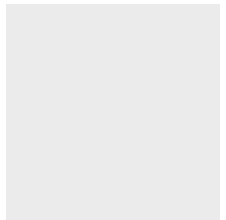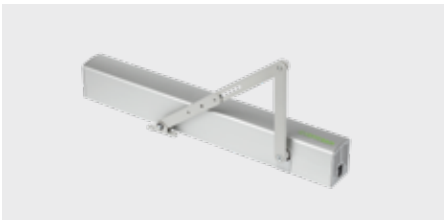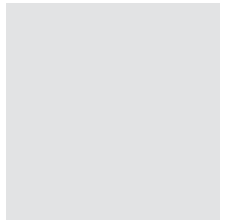
AUTOMATIC SWING DOORS

Seamlessly blending stunning aesthetics, whisper-quiet operation and innovative technology, CENTURION door automation solutions create a superior user experience at every consumer touchpoint, and deliver futuristic functionality with a flair for the fantastic.

Not only do these premium operators offer an elegant and wholly unobtrusive door automation solution for both swing and sliding doors, but they are practically indefatigable thanks to the use of the finest quality electrical and mechanical components, with certain models rated for up to 2 million maintenance-free cycles.

The 950N2 automated system controls door opening and closing with silent and smooth operation. It allows the users to easily open the door via a button, sensor or a remote control. Thanks to the PUSH & GO function, a touch completely opens the door.

The automated systems are also able to automate double-leaf entrances by interfacing the two units in a master/slave configuration and the double leaf will be moved by a single automated system.

950N2 SWING DOOR AUTOMATED SYSTEM

Main Features

- Compliant with EN16005 European Standard
- Can be installed on almost all types of internal and external doors and can be mounted either side for both push or pull doors
- The operator is designed for use on left or right-hand doors
- The door operator has quiet operation during opening and closing and a silent Hold Open feature
- The MPS processor board provides real-time control of the operator's activities and the encoder detects the position of the door at all times
- Self-learning of open and closed positions and measurement of the door weight
- Anti-crushing safety device active during opening and closing

TECHNICAL SPECIFICATIONS

Technical Data	A950
Power supply	220-240V AC~ - 50/60 Hz
Absorbed power	100W
Use frequency	Continuous
Drive unit	24V DC motor with encoder
Activation	Electro-mechanical with/without return spring
Anti-crushing device	Standard supply
Dimensions	530 x 100 x 104 mm (LxHxD)
Weight	10kg
Protection class	IP23
Opening angle	70° to 95°
Opening speed	Adjustable from 30% to 100%
Closing speed	Adjustable from 30% to 100%
Pause time	Adjustable from 1 to 30 sec.
Standard operating functions	Automatic-manual-open
Activation arms in stainless steel	Articulated to push with short sliding block with standard sliding block
Housing cover	Aluminium or Plastic

The A951 door automation system smoothly and silently controls door opening and closing, allowing users to easily open doors via a pushbutton, sensor or remote control. To make life easier for you, the system can be installed onto the lintel or directly onto the structure of the door, providing maximum flexibility as well as remarkably easy installation.

To ensure absolute safety of operation, the system features an intelligent microprocessor controlling all door activities in real time, with an encoder detecting its angular position in every moment, and has been manufactured in compliance with the latest European safety standards.

A951 SWING DOOR AUTOMATED SYSTEM

Main Features

- A951 operator opens and closes the internal door silently and smoothly
- The housing cover is made from anodised extruded aluminium
- The A951 features a microprocessor controlling all the door activities in real time, with an encoder detecting its angular position in every moment
- Manufactured in compliance with the new European safety standards EN16005; speed and force are programmed based on door dimensions
- Double-leaf entrances can be automated using master/slave configuration
- Thanks to the accurate selection of mechanical and electronic components, the A951 automated system can silently drive leaves weighing 100kg and 1100-mm wide working continuously ensuring the absolute operating safety at all times

TECHNICAL SPECIFICATIONS

Technical Data	A951
Power supply voltage	220-240V AC~ - 50/60Hz
Max. Power	100W
Use Frequency	100W
Motor	Motor-powered at 24V
Maximum accessories load	1A - 24V
Electric lock power supply voltage	(N.O./N.C.) 24V / 500mA max
Dimensions (LxHxD)	575x60x70 mm
Weight	7Kg
Operation in case of power cut	Manual push/pull opening
Max Leaf opening angle	100° to 125°
Opening leaf time	4 to 10 seconds (adjustable)
Closing leaf time	4 to 10 seconds (adjustable)
Partial opening adjustment	Standard (adjustable)
Pause time	0 to 30 seconds
Night pause time	0 to 90 seconds
Encoder	As standard
Protection sensor monitoring	As standard (may be excluded)
Low energy movement	As standard (may be excluded)
Operating ambient temperature	-20°c to +55°C
Protection class	IP23 (for internal use only)
Compliance with regulations	EN16005; EN61000-6-2; EN61000-6-3 ; EN13849
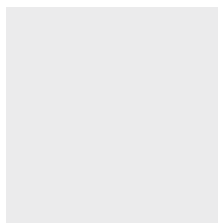
AUTOMATIC SLIDING DOORS

AUTOMATIC SLIDING DOORS

Customisable and can be assembled to meet the architectural and technical requirements of the customer. Designed to operate optimally in any condition and in any environment, meeting the most stringent safety requirements.

Thanks to its compact dimensions, the FAAC A1000 system can be adapted to suit virtually any type of architectural environment, even in limited space conditions.

The A1000 Series automatically programs opening and closing force and speed according to the friction and the door weight in conformity with the relevant international safety standards. It also guarantees considerable energy savings.

A1000 SLIDING DOOR AUTOMATED SYSTEM

Main Features

- The A1000 is only 150mm deep and 100mm high, adapting to suit virtually any type of architectural environment, even in limited space conditions

- Designed with a greener future in mind it uses just 100 watts of absorbed power but has the ability to cope with continuous use

- In the event of a power failure, backup batteries guarantee 100% operation for 20 minutes

- A microprocessor verifies in real-time all door activities and guarantees intelligent control. The operation logic can be selected by means of a functions keypad

- In the event of an obstacle being detected, the door reopens immediately. On the next closing, it verifies at slow speed whether the obstacle is still present.

TECHNICAL SPECIFICATIONS

Technical Data	A1000
Electric power supply	115/230 VAC - 50 (60) Hz
Power consumption	100W
Frequency of use	100%
Drive unit	24V DC motor and encoder
Head profile length	VP x 2 + 100mm
Load free opening adjustment	5 to 70cm/s
Load free closing adjustment	5 to 70cm/s
Partial opening adjustment	10% to 90% of total opening
Pause time adjustment	0 to 30 seconds
Night pause time adjustment	0 to 240 seconds
Anti-crushing device	Standard
Photocells fail-safe	Standard (can be excluded)
Protection class	IP23 (for indoor use only)
Environmental temperature	0 to 30 seconds

The first automated system for sliding doors designed to meet the needs of the market as well as protect our environment. Thanks to the system's innovative "Energy Saving" device it identifies the direction of transit and perfectly optimises opening/ closing times to avoid unnecessary air dispersion, even in the event of sideways transit. This device allows energy saving and optimises sudden temperature changes in the room and in the vicinity of doors. All in absolute safety.

A1400 AIR SLIDING DOOR AUTOMATED SYSTEM

Main Features

- The first automated system for sliding doors designed to meet the needs of the market as well as protect our environment

- Thanks to the system's innovative "Energy Saving" device it identifies the direction of transit and perfectly optimises opening/closing times to avoid unnecessary air dispersion, even in the event of sideways transit

- This device allows energy saving and optimises sudden temperature changes in the room and in the vicinity of doors. All in absolute safety

- Features an ethernet interface for setting the operating parameters of the automated system and viewing the fault diagnostics with a PC connected to the network

- The automated system is customisable and modular to meet the architectural and technical needs of the customer

TECHNICAL SPECIFICATIONS

Technical Data	A1400
Electric power supply	115/230 VAC - 50 /60Hz
Power consumption	100W
Frequency of use	100%
Drive unit	24V DC with encoder
Head profile length	VP x 2 + 100mm
Opening speed (adjustable)	5 to 80 cm/sec. / 10 to 160 cm/sec.
Closing speed (adjustable)	5 to 70 cm/sec. / 10 to 140 cm/sec.
Partial opening adjustment	10% to 90% of total opening
Pause time adjustment	0 to 30 seconds
Night pause time adjustment	0 to 240 seconds
Anti-crushing device	Standard
Photocells fail safe	Standard (can be excluded)
Protection class	IP23 (for indoor use only)
Environmental temperature	-20°C to +55°C
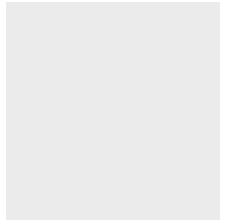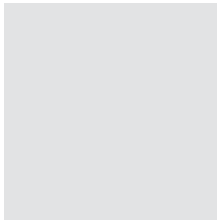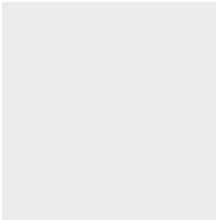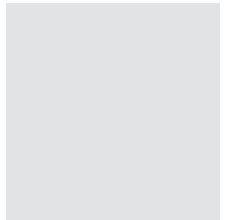
INDUSTRIAL SLIDING GATE OPERATORS

FAAC automated sliding gate motors are ideal for heavy industrial gates used intensively.

This is an electro-mechanical operator transmitting motion to the sliding leaf via a rack or chain pinion appropriately coupled to the gate. The non-reversing system ensures the gate is mechanically locked when the motor is not operating and, therefore, no lock needs to be installed.

The gearmotor is equipped with a mechanical clutch which, combined with an electronic device, offers the necessary adjustable anti-crushing safety and guarantees stopping or reversing the gate movement. A handy manual release makes it possible to move the gate in the event ot a power cut or malfunction. The control board, if supplied with the geormotor, is placed inside the operator.

FAAC 844 3-PHASE SLIDING GATE MOTOR

Main Features

- Ideal for demanding applications
- Electronic equipment can be fitted internally or remotely, allowing maximum flexibility during installation
- Torque settings adjusted from the control board
- Reliability and long life due to the internal mechanical components being immersed in a constant oil bath
- Models are available for rack and pinion or chain drive

TECHNICAL SPECIFICATIONS

Technical Data	844 MC
Power supply voltage	380-415V~ 3 50/60Hz
Motor	Three-phase with four poles
Maximum power	950W
Maximum torque	62Nm
Maximum expressed force	2500 N (Z12) - 1900 N (Z16) - 1500 N (Z20)
Reduction ratio	1:30
Maximum leaf width	40m (Z16) - 50m (Z20)
Speed adjustment and motor control	No
Limit switch	Inductive with metal sheet
Pinion	No
Encoder	No
Force adjustment	Twin-disk clutch in oil-bath
Operating ambient temperature	-20°C ÷ +55°C
Thermal protection	155°C
Protection class	IP44
Weight	15Kg
Type of oil	FAAC HP OIL
Dimensions (LxDxH)	275mm x 191mm x 387mm
Max. leaf weight	2200Kg (Z12) - 1600Kg (Z16)
Usage frequency	70%
Electronic equipment	Not included

The FAAC model 884 for sliding gates is an electromechanical operator which transmits movement to the leaf by means of a pinion with rack coupled in an appropriate manner to the sliding gate.

By using a self-braking motor the system is guaranteed to be mechanically locked when the motor is not in operation, meaning that a lock does not need to be installed. The gear motors have adjustable mechanical clutches to ensure correct use of the automation. A convenient manual release device allows the gate to be opened in the event of a power failure or malfunction. The electronic control unit is incorporated in the gear motors.

884 MC 3PH 400V GATE MOTOR (3500KG)

Main Features

- Ideal for heavy industrial gates with intensive use
- Robust braking system guaranteeing reduced stop spaces and keeping the gate closed, thus making it unnecessary to install electric locks
- In the event of power failure, the key-protected lever-operated release device makes it possible to open and close the gate manually
- Twin-disk clutch in oil-bath
- Base with levelling screws for easy adjustment
- Steel housing protected by cataphoresis treatment and polyester paint offering superior durability and longevity

TECHNICAL SPECIFICATIONS

Technical Data	884 MC
Power supply voltage	380V-415V~ 3 50/60Hz
Motor	Three-phase with four poles
Max. power	850W
Maximum torque	0 ÷ 155Nm
Maximum expressed force	3.200N
Reduction ratio	1:43,2
Max. leaf width	42m
Speed adjustment and motor control	No
Limit switch	Roller lever micro switch
Pinion	No
Encoder	No
Force adjustment	Twin-disk clutch in oil-bath
Operating ambient temperature	-20°C ÷ +55°C
Thermal protection	155°C
Protection class	IP55
Weight	50Kg
Type of oil	FAAC HP OIL
Dimensions (LxDxH)	430mm x 310mm x 586mm
Max. leaf weight	3500Kg
Use frequency	100% (up to 2000Kg) - 50% (over 2000Kg)
Electronic equipment	884T incorporated
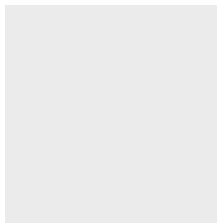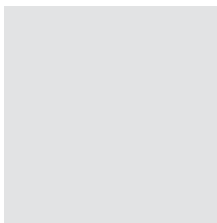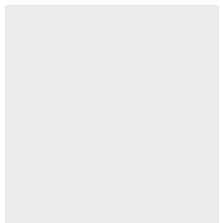
FAAC SWING GATE OPERATORS

FAAC SWING GATE OPERATORS

FAAC provides a wide range of Swing Gates Automation systems. These electric and hydraulic swing gate operators are the perfect solution for convenient gate automation ranging from small pedestrian gates, right up to commercial heavy duty applications.

Our high-strength hydraulic lock systems ensure that the gates cannot be forced, offering exceptional anti-intrusion security. At the same time, sensitive by-pass valves in the hydraulic system ensure maximum anti-crushing safety - with a simple manual override facility in the event of an emergency.

The combination of quiet operation, minimal maintenance, and low power consumption is the hallmark of the 400 hydraulic unit - making it ideal for domestic, industrial and commercial locations.

400 HYDRAULIC SWING GATE MOTOR

Main Features

- A range of different operators, with or without hydraulic locking
- The hydraulic locking system will hold the gates open and closed at the end of the operating cycle
- The exclusive hydraulic device ensures maximum anti-crushing protection
- All components are oil-bath lubricated and continuously cooled, requiring very little maintenance, and are highly efficient
- Precision mechanics and the use of hydraulic oil as lubricant are the secrets behind the extremely quiet movement

TECHNICAL SPECIFICATIONS

Technical Data	400 CBAC	400 SB	400 SBS
Power supply voltage	230V AC (+6% -10%) 50 (60)Hz	230V AC (+6% -10%) 50 (60)Hz	230V AC (+6% -10%) 50 (60)Hz
Absorbed power	220W	220W	220W
Absorbed current	1 A	1 A	1 A
Motor rotation speed	1400r.p.m.	1400r.p.m.	1400r.p.m.
Rod extension speed	1cm/s	1cm/s	0.75cm/s
Pump flow rate	1l/min	1l/min	0.75l/min
Traction and thrust force	0 to 620 daN	0 to 620 daN	0 to 775 daN
Operating ambient temperature	-20°C to +55°C	-20°C to +55°C	-20°C to +55°C
Thermal protection on motor winding	120°C	120°C	120°C
Weight	8.6kg	8.6kg	8.6kg
Type of oil	FAAC HP OIL	FAAC HP OIL	FAAC HP OIL
Protection class	IP 55	IP 55	IP 55
Dimensions (L x D x H) in mm	1031mm x 113mm x 85 mm - long version 1,285 x 113 x 85 mm	1031mm x 113mm x 85 mm - long version 1,285 x 113 x 85 mm	1031mm x 113mm x 85 mm - long version 1,285 x 113 x 85 mm

Underground operator for residential swing-leaf gates. As it is installed below the surface, the 770N does not significantly impact the appearance of the gate. Anti-crushing protection is ensured by an electronic device installed on the control board, which directly controls drive torque.

In case of an emergency, manual operation is assured by a special lever release system with customised key, accessible from both inside and outside.

770N UNDERGROUND ELECTROMECHANICAL OPERATOR

Main Features

- Underground operator for residential swing-leaf gates up to 2.5m

- Maximum gate weight of 500kg

- As it is installed below the surface, it does not impact the appearance of the gate. significantly

- Anti-crushing protection is ensured by an electronic device installed on the control board, which directly controls drive torque

- In case of an emergency, manual operation is assured by a special lever release system with customised key, accessible from both inside and outside

- When maintenance is necessary, the operator can be easily removed from the foundation box without removing the gate leaf

- Option to add BUS XIB interface for applications using NON BUS devices

TECHNICAL SPECIFICATIONS

Technical Data	770N
Reduction ratio	1:1418
Electric motor voltage	24V DC
Power supply voltage	230V AC
Absorbed power	70
Absorbed current	3A
Maximum traction thrust force	300Nm
Angular speed	6°/sec
Type and frequency of use at 20 °C	100%
Leaf max. opening angle	110° (140° and 180° with optional kit)
Leaf max. length	3.5 m (110°), 3 m (180° with optional opening kit), 2.5 m (140° with optional opening kit)
Weight	12.5kg (27.8kg with foundation box)
Protection class	IP 67
Operator dimensions	360mm x150mm x140mm
Operating ambient temperature	-20°C to +55°C
Foundation box dimensions	430mm x 307.5mm x 214mm

540

541 230V

541 3PH 400V

INDUSTRIAL SECTIONAL DOORS

Industrial doors are generally located at large entrances, normally in warehouses, loading and unloading points and similar areas, which require large doors that are easy to open and close. Automatic industrial doors are available in either vertical or lateral sliding options or, alternatively, as winding doors.

540 GEARMOTOR FOR INDUSTRIAL SECTIONAL DOORS

Automation systems for sectional industrial doors are ideal for handling particularly heavy doors that are subjected to intensive work cycles.

To ensure that these doors open even in the event of a power failure, the FAAC automatic industrial doors can be equipped with a manual release cord or pulley.

Main Features

- Ideal for industrial applications with "automatic/semi-automatic logic" control

- In the event of a power failure, the door is activated manually using the rapid release cord device (541 V 3PH) or a chain pulley

- Direct application on the spring-carrier shaft or indirect by chain transmission

- Non-reversing gearmotor

- Ideal for industrial application with "dead-man" control

TECHNICAL SPECIFICATIONS

Technical Data	540
Power supply voltage	220-240V~ 50/60 Hz
Motor	Asynchronous single phase
Max. power	800W
Power	Passing shaft diam. 25.4 mm (1")
Drive rotation speed	23rpm
Maximum stroke	24revs
Maximum torque	50Nm
Encoder	No
Operating ambient temperature	-20°C ÷ +55°C
Protection class	IP54
Type of oil	FAAC HP OIL
Weight	14 Kg
Dimensions (LxDxH)	92mm x 376mm x 266mm
Electronic equipment	540BPR incorporated
Use frequency	S3 - 40%

541 230V AND 541 3PH 400V GEARMOTOR FOR INDUSTRIAL SECTIONAL DOORS

Main Features

- Ideal for industrial applications with "automatic/semi-automatic logic" control

- In the event of a power failure: the door is activated manually using the rapid release cord device (541 V 3PH) or a chain pulley

- Direct application on the spring-carrier shaft or indirect by chain transmission

- Non-reversing gearmotor

- Ideal for use with "automatic/semi-automatic logics" with "remote" control unit.

TECHNICAL SPECIFICATIONS

Technical Data	541
Power supply voltage	220-240V~ 50/60 Hz
Motor	Asynchronous single phase
Max. power	800W
Power	Passing shaft diam. 25.4mm (1")
Drive rotation speed	23rpm
Maximum stroke	24revs
Maximum torque	50Nm
Encoder	2
Operating ambient temperature	-20°C ÷ +55°C
Protection class	IP54
Type of oil	FAAC HP OIL
Weight	14 Kg
Dimensions (LxDxH)	92mm x 376mm x 266 mm
Electronic equipment	Not included
Use frequency	S3 - 40%

FAAC TRAFFIC BARRIER

TRAFFIC BARRIER

The B680H has a Hybrid heart which, together with its "everlasting" springs, allows it to exceed 2 million cycles of continuous-use, raising an 8m pole in less than 6 seconds, in total safety, thanks to the reverse-on-contact feature.

The automated system consists of a white aluminium beam with reflectors, optional signalling lights, a covering compartment and steel upright profile. Inside the compartment there is an operator consisting of the upright profile with a hydraulic unit and two plunging pistons fixed to it which, by means of a rocker arm, rotate the beam.

B680H AUTOMATED SYSTEM

Main Features

- Hybrid hydraulic plus brushless motor technology
- Unlimited springs for over 2 million continuous use cycles
- Removable housing available in 4 colours or stainless steel
- High-speed 6s for 8m beams
- Easy-to-program control unit
- Built-in obstruction detection
- Two integrated loop detectors
- Master/Slave logics and management (opposing barriers)
- Anti-vandalism system
- LED lights for beam (accessories)
- Integrated flashing LED traffic light (accessories)

TECHNICAL SPECIFICATIONS

Technical Dataz	B680H
Power supply voltage	Switching: 100 ÷ 240V~ 50/60 Hz
Motor	Brushless 36V __logo__DC__
Motor rotation speed	1000 ÷ 6000 rpm
Maximum power	240W
Motor-pump unit capacity	3.2lpm
Material type	Steel
Type of treatment	100 micron protective primer + polyester painting or stainless steel cabinet
Encoder	Magnetic absolute encoder
Type of deceleration	Electronic - via encoder
Type of beam	Round
Operating ambient temperature	-20°C ÷ +55°C
Protection class	IP56 (TÜV certified)
Weight	85Kg (65 Kg pillar + 20Kg cabinet)
Type of oil	FAAC HP OIL
Dimensions (LxDxH)	469x 279mm x 1100mm
Beam max length	2 ÷ 8 m
Opening time	1,5 s (90° - 2m) - 6 s (90° - 8m)
Use frequency	100%
Electronic equipment	E680

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