





# SMART ACCESS SOLUTIONS

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.



## SLIDING GATE OPERATOR QUICK SELECTION GUIDE

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



	D5 SMART	D10 SMART
<b>Input voltage</b>	90V - 240V AC +/-10% @ 50Hz	90V - 240V AC +/-10% @ 50Hz
<b>Mains power required at gate</b>	✓ / Solar	✓ / Solar
<b>Gate mass – maximum</b>	500kg	1000kg
<b>Gate speed – maximum<sup>3</sup></b>	Up to 35m/min	Up to 26m/min
<b>Duty cycle – mains present<sup>1</sup></b>	50%	45%
<b>Daily operations - maximum<sup>2</sup></b>	150	750
<b>Interface type</b>	Mobile app	Mobile app
<b>Time-barring and automatic activation</b>	✓	✓
<b>Onboard multichannel receiver</b>	✓	✓

1. Based on a 25° ambient temperature and unit not in direct sunlight

2. Battery-driven typically using a 7Ah (5Ah – D2 Turbo/D2 Turbo Low-Voltage) battery and a charger (battery can be upgraded for greater power failure autonomy – mounted separately). Solar power may also be used.

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





D10 TURBO SMART	D20 SMART
90V - 240V AC +/-10% @ 50Hz	90V - 240V AC / Solar
✓ / Solar	✓ / Solar
1000kg	2000kg
Up to 45m/min	Up to 18m/min
25%	45%
750	750
Mobile app	Mobile app
✓	✓
✓	✓



## INTELLIGENT SECURITY FOR YOUR GATE

**D5 SMART**

SMART.  
The intelligent choice.

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



# SMART 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 SMART 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 SMART has everything you ever wanted in a gate motor... and more!

### **SMART speed**

With speeds up to 36m/minute and with safe anti-crushing protection, the D5 SMART strikes the perfect balance between safety and security.

### **SMART connectivity**

Open your gate from anywhere using your smartphone, plus set up unique, individual pro-

files for everyone using the gate.

### **SMART diagnostics**

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

### **SMART hardware**

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

### **SMART logging**

The D5 SMART 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 SMART experience.



## **D5 SMART DOMESTIC SLIDING GATE OPERATOR**

Fast-thinking and fast-moving, D5 SMART is here to change the way you think about gate motors. It's time for your gate to move with the times – after all, why settle for average when you can go SMART? Our latest domestic offering gives you a fully customisable experience, including allowing your remote controls to be fine-tuned just the way you like it to match your unique requirements, fully configurable run profiles and adjustable speed and sensitivity, not to mention intruder-detection and battery backup. It's your ticket to the SMART life.



### **MAIN FEATURES**

- Wireless and effortless – easy smartphone setup and configuration
- Safe and secure with a top speed of 36 metres per minute
- Makes your life easier with advanced diagnostic feedback
- Dependable battery backup – continues working during power outages
- Intelligent logging and reporting
- Onboard multichannel NOVA receiver with 1500 remote memory
- SMART hardware providing best experience for installers and end-users
- New and improved theft-resistant cage with a patented design offering outstanding security and peace of mind
- Intelligent battery charger with onboard diagnostics and SMART 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



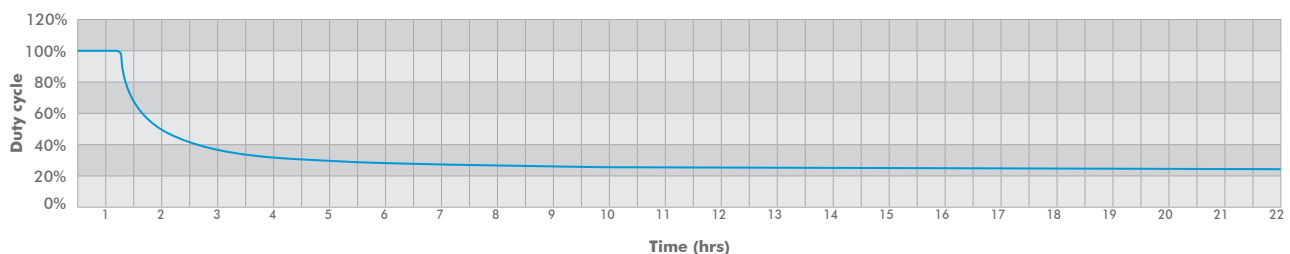
## TECHNICAL SPECIFICATIONS

Technical Data	D5 SMART
Input voltage	90V - 240V AC +/-10% @ 50Hz <sup>1</sup>
Current consumption (Mains)	200mA
Battery charger current output	1.3A
Maximum number of operations per day	150
Duty cycle - Mains present <sup>2,3</sup>	50%
Motor voltage	24V DC
Motor power supply	Battery-driven (Standard Capacity - 2x12V) <sup>5</sup>
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) <sup>4</sup>	36m/min @ 17kgf
Manual Override	Lockable with key release
Operations in standby with 6Ah battery	
Half day <sup>5,6</sup>	44
Full day <sup>5,6</sup>	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 <sup>7</sup>
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

### D5 SMART SINGLE OPERATOR DUTY CYCLE AS A FUNCTION OF OPERATING TIME







## CABLING REQUIREMENTS

1. **D5 SMART:** 220V - 240V AC mains cable via double mains isolator switch (3 core LNE 1.5mm<sup>2</sup> SWA)<sup>1</sup>

### Optional Wiring (all cable is multi-stranded):

2. Intercom, cable from control box to dwelling (n1<sup>6</sup> + 6 core<sup>3</sup> 0.5mm<sup>2</sup> multi-stranded) or cable from control box to entry panel (n2<sup>6</sup> 0.5mm<sup>2</sup> multi-stranded)
  3. Infrared Safety Beams (3 core 0.5mm<sup>2</sup> multi-stranded)
  4. Access control device (3 core 0.5mm<sup>2</sup> multi-stranded<sup>4</sup>)
  5. Pedestrian keyswitch (2 core 0.5mm<sup>2</sup> multi-stranded) or
  6. Keypad (3 core 0.5mm<sup>2</sup> multi-stranded)
  7. External radio receiver (3 core 0.5mm<sup>2</sup> multi-stranded<sup>5</sup>)
  8. Pillar Lights (3 core LNE SWA<sup>2</sup>, size according to power requirements)
  9. Inductive loop detector for free-exit (1 core 0.5mm<sup>2</sup> multi-stranded - silicone-coated<sup>6</sup>)
1. Possibly increase cable thickness if Pillar Lights are to be installed
2. SWA - steel wire armoured. Type of cable must adhere to municipal bylaws and preferably be screened. Screening provides better protection against lightning - earth one end of the screening
3. Allows for all features such as Pedestrian Opening, Status LED, etc. to be operated from the intercom handset inside the dwelling
4. Number of cores and type of cable could vary depending on the brand of access control system being used
5. For optimum range an external radio receiver can be mounted on the wall
6. Number of cores required by the intercom





## 5 REASONS TO GO SMART

It's no secret that technology (and therefore the world) is changing at an incredible pace. The things that must have seemed like science fiction to previous generations are now very much a reality as machines race ahead and accomplish astonishing feats that are nothing short of mind-blowing. From self-driving cars to robots that win game shows, the future seems to have truly arrived, bringing with it some of the most brilliant innovations and inventions in human history.

But how has technological development changed the workplace?

Well, for one thing, it's transcending physical space (something that we've seen more of in the past year or so) with more and more people taking to working remotely thanks to communication technologies such as Skype and Zoom. But it's also changed how we interact with our environment, making tasks easier and less complicated than in the past.

With so much innovation taking place, and with entire industries being transformed through the power of evolving technologies, why should the way you install stay the same?

In this article, we're listing five reasons to go SMART.

### **Making your life easier**

For 35 years, we've been a trailblazer in the access automation space. Battery backup gave you more reliability, the SMARTGUARDair wireless keypad gave you the ultimate in flexibility and ease of installation, and the D5-Evo became an access automation legend.

And now, our award-winning SMART technology is taking the CENTURION experience to the next level.

Every aspect of our SMART technology has been developed to give you an access automation experience unlike any other. From its unique and innovative mechanical footprint for streamlined installation to its many advanced features easily configurable via the tie-in mobile app, SMART is truly the intelligent choice.

- Whip-smart mechanical design makes the unit quick, easy and seamless to install
- Lightning-fast electronic commissioning with just a few taps using an intuitive and interactive mobile application with graphic wizards
- Easy management of remote controls
- Intelligent diagnostic feedback and monitoring of system health in real-time

Using technology to empower you

With our SMART technology, we're putting intelligence and convenience at your fingertips, and the app will guide you through everything from setting the gate limits to programming functionality for the up to 1500 individual remotes that can be stored in the system's memory. You'll also have access to a huge suite of features, including configuring infrared beams and intruder-detection alarms, giving your client the very best in security and peace of mind.

### **Revolutionising installation**

Our SMART technology prioritises the installer experience not only from a mechanical installation perspective, but through the digitisation of touchpoints, most notably the interface used for commissioning the system, which is completely app-based. This innovative approach enables you to master the solution with minimal effort and manual intervention – the app does virtually everything for you! Flipping through the app's screens and settings, you'll find everything to tailor the installation exactly to your client's preferences, from the gate speed to automatic closing, all with clear, full-colour graphic depictions to make your life easier.

### **Giving your clients the best that the world of access automation has to offer**

Our SMART technology has enabled us to deliver the fastest gate motor in its class for the best security and convenience, featuring the most innovative theft protection on the market and reliable dual battery backup to make it ready for any power outage.

### **Harnessing expandability and unleashing the power of SMART**

CENTURION SMART solutions boast a stylish, modern design with elegant lines and bold contours, making them an excellent addition to any gate. Now, let's take a look under the hood. Underneath the unit's striking exterior, you'll not only find its ultra-sophisticated electronics designed to deliver outstanding reliability and functionality, but the interior is spacious and includes a dedicated accessory tray where you can neatly, safely and securely stow complementary solutions such as GSM devices to give your clients a truly powerful security system.



## D10 SMART SLIDING GATE OPERATOR

Get the high-performance, maximum endurance D10 SMART sliding gate motor – the best solution for industrial and commercial sites. With state-of-the-art technology, businesses will enjoy unparalleled security and convenience through industry-leading intelligence.

A heavy-duty gearbox ensures reliable operation for up to 750 operations per day – perfect for even the busiest environments – while dual battery backup provides the peace of mind you need when your business demands leading-edge access control – no compromise.



## MAIN FEATURES

- Extreme endurance and performance – rated for up to 750 operations per day
- Ready for any power outage with reliable battery backup
- Simplified, streamlined installation thanks to SMART hardware
- Innovative theft and break-in protection
- Making lives easier with the friendly and intuitive MyCentsys Pro mobile app
  - Quick and easy commissioning guided by attractive visuals
  - Intelligent management of remote controls
  - Diagnostics and system health feedback
  - Customisable triggers for excellent flexibility



## TECHNICAL SPECIFICATIONS

Technical Data	D10-SMART	
Input voltage	90V - 240V AC +/-10% @ 50Hz <sup>1</sup>	
Current consumption (Mains)	250mA	
Battery charger current output	1.8A @ 27.4V +/-1%	
Maximum number of operations per day	750 <sup>3,6</sup>	
Duty cycle - Mains present <sup>2,3</sup>	45%	
Motor voltage	24V DC	
Motor power supply	Battery-driven (Standard Capacity - 2x 12V 7.2Ah)	
Current consumption (motor at rated load)	8A	
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	40kgf	
Motor push force - rated	30kgf	
Gate mass - maximum	1000kg	
Gate length - maximum	50m	
Gate speed (varies with load) <sup>4</sup>	Up to 26m/min <sup>4</sup>	
Manual Override	Lockable with key release	
Drive Pinion	17T Module 4	
Operations in standby with 2x 7Ah batteries	Operating Modes	
	Power Saving 15m/min 15kgf	Normal 26m/min 15kgf
	Half day <sup>2,5,6</sup>	63
	Full day <sup>2,5,6</sup>	50
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 <sup>7</sup>	
Receiver frequency	433.92MHz	
Degree of protection	IP54	
Mass of unit packed (with standard kit, but excl. rack and battery)	13kg	
Packaging dimensions (with standard kit, but excl. rack and battery)	350mm wide x 282mm deep x 470mm high	

- Can operate off a solar supply, consult your local dealer for assistance
- Based on 25°C ambient temperature and unit not in direct sunlight
- Based on a motor push force of less than 50% of rated (Starting and Running forces)
- Gate opening and closing speeds can be configured to run slower depending on the requirements of individual installations
- Can increase battery capacity for longer standby times
- Based on 4m gate, excluding all accessories
- Multiple buttons per remote can be used
- Refer to the table below for **D10 TURBO SMART**'s recommended gate speed for specified gates masses





## CABLING REQUIREMENTS

1. **D10 SMART:** 220V - 240V AC mains cable via double mains isolator switch (3 core LNE 1.5mm<sup>2</sup> SWA)<sup>1</sup>

**Optional Wiring (all cable is multi-stranded):**

2. Intercom, cable from control box to dwelling (n1<sup>6</sup> + 6 core<sup>3</sup> 0.5mm<sup>2</sup> multi-stranded) or cable from control box to entry panel (n2<sup>6</sup> 0.5mm<sup>2</sup> multi-stranded)
3. Infrared Safety Beams (3 core 0.5mm<sup>2</sup> multi-stranded)
4. Access control device (3 core 0.5mm<sup>2</sup> multi-stranded<sup>4</sup>)
5. Pedestrian keyswitch (2 core 0.5mm<sup>2</sup> multi-stranded) or
6. Keypad (3 core 0.5mm<sup>2</sup> multi-stranded)
7. External radio receiver (3 core 0.5mm<sup>2</sup> multi-stranded<sup>5</sup>)
8. Pillar Lights (3 core LNE SWA<sup>2</sup>, size according to power requirements)
9. Inductive loop detector for free-exit (1 core 0.5mm<sup>2</sup> multi-stranded - silicone-coated<sup>6</sup>)

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

2. SWA - steel wire armoured. Type of cable must adhere to municipal bylaws and preferably be screened. Screening provides better protection against lightning - earth one end of the screening

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

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

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

6. Number of cores required by the intercom

## OVERALL DIMENSIONS

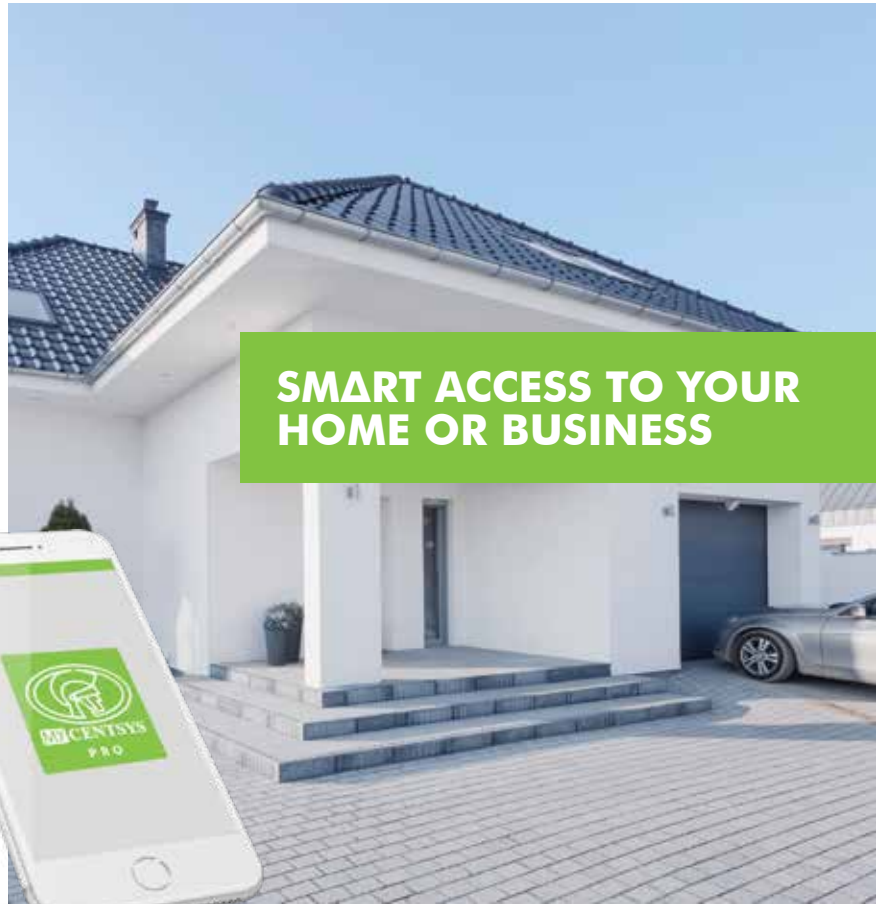


## RECOMMENDED SPEEDS AND GATE MASSES FOR THE D10 TURBO SMART<sup>1</sup>

Max Speed (M/Min)	Gate Mass (Kg)
45	250
41	300
36	400
32	500
29	600 <sup>2</sup>
27	700 <sup>2</sup>
25	800 <sup>2</sup>
24	900 <sup>2</sup>
23	1000 <sup>2</sup>

1. If a D10 Turbo SMART is used on a gate over 250Kg, the speed must be reduced according to the table above to ensure that the gate can be safely stopped in an emergency.

2. Centurion Systems (Pty) Ltd recommends the use of a D10 SMART for gates over 500KG.



**SMART ACCESS TO YOUR HOME OR BUSINESS**

## INTELLIGENT SECURITY FOR YOUR GATE

The legendary high-volume performer. The powerhouse of heavy-duty access control. The intelligent choice in commercial and industrial gate automation.

With its powerful 24V motor and die-cast aluminium gearbox, the **D10 SMART** sliding gate motor packs a potent punch, providing excellent security on sites ranging from townhouse complexes and residential estates to busy office parks and warehouse facilities.

Level up with the lightning-fast **D10 Turbo SMART**, the perfect solution for sites requiring high levels of security and capable of moving a gate weighing up to 250kg at a blistering speed of up to 45 meters per minute.

Both operators use a battery-driven high-torque DC motor, coupled to a robust gearbox to provide an automation system that is quick, powerful and battery backed-up – perfect for industrial and commercial applications where heavy gates are installed and reliability is a must.

And now – you can have speed, security, endurance and reliability, quicker and easier than with any other gate motor in the D10's class, thanks to **SMART**

technology and wireless connectivity.

Use the tie-in MyCentsys Pro installer app for wireless and effortless setup of the gate limits and configuration of the operator's many innovative features, as well as instant access to advanced diagnostics and system health. An interactive dashboard and graphic wizards give installers the full **SMART** experience.

Easy to set up and easy on the eye, the **D10 SMART** range has everything you'd expect from the access automation industry leaders.





## **D10 TURBO SMART SLIDING GATE OPERATOR**

Our fastest gate motor yet. For a gate motor that outperforms, outclasses and outpaces the rest, get the lightning-fast D10 Turbo SMART for light-industrial, commercial and residential applications. With an incredible top speed of 50m/minute, the D10 Turbo SMART is the ultimate full-throttle speed machine that tears along at high velocity to put the brakes on tailgating, opening and closing gates in mere seconds



### **MAIN FEATURES**

- Turbo speed for the ultimate in security and convenience
- Ready for any power outage with reliable battery backup
- Simplified, streamlined installation thanks to SMART hardware
- Innovative theft and break-in protection
- Making lives easier with the friendly and intuitive MyCentsys Pro mobile app
  - Quick and easy commissioning guided by attractive visuals
  - Intelligent management of remote controls
  - Diagnostics and system health feedback
  - Customisable triggers for excellent flexibility

## TECHNICAL SPECIFICATIONS

Technical Data	D10 TURBO-SMART	
Input voltage	90V - 240V AC +/-10% @ 50Hz <sup>1</sup>	
Current consumption (Mains)	250mA	
Battery charger current output	1.8A @ 27.4V +/-1%	
Maximum number of operations per day	750 <sup>3,6</sup>	
Duty cycle - Mains present <sup>2,3</sup>	25%	
Motor voltage	24V DC	
Motor power supply	Battery-driven (Standard Capacity - 2x 12V 7.2Ah)	
Current consumption (motor at rated load)	10A	
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	24kgf	
Motor push force - rated	18kgf	
Gate mass - maximum	250kg <sup>8</sup>	
Gate length - maximum	50m	
Gate speed (varies with load) <sup>4</sup>	Up to 45m/min <sup>8</sup>	
Manual Override	Lockable with key release	
Drive Pinion	20T Module 4	
Operations in standby with 2x 7Ah batteries	Operating Modes	
	Power Saving 15m/min 9kgf	Normal 45m/min 9kgf
	Half day <sup>2,5,6</sup>	130
	Full day <sup>2,5,6</sup>	104
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 <sup>7</sup>	
Receiver frequency	433.92MHz	
Degree of protection	IP54	
Mass of unit packed (with standard kit, but excl. rack and battery)	13.5kg	
Packaging dimensions (with standard kit, but excl. rack and battery)	350mm wide x 282mm deep x 470mm high	

- Can operate off a solar supply, consult your local dealer for assistance
- Based on 25°C ambient temperature and unit not in direct sunlight
- Based on a motor push force of less than 50% of rated (Starting and Running forces)
- Gate opening and closing speeds can be configured to run slower depending on the requirements of individual installations
- Can increase battery capacity for longer standby times
- Based on 4m gate, excluding all accessories
- Multiple buttons per remote can be used
- Refer to the table below for **D10 TURBO SMART**'s recommended gate speed for specified gates masses





## CABLING REQUIREMENTS

- D10 TURBO SMART:** 220V - 240V AC mains cable via double mains isolator switch (3 core LNE 1.5mm<sup>2</sup> SWA)<sup>1</sup>

### Optional Wiring (all cable is multi-stranded):

- Intercom, cable from control box to dwelling (n1<sup>6</sup> + 6 core<sup>3</sup> 0.5mm<sup>2</sup> multi-stranded) or cable from control box to entry panel (n2<sup>6</sup> 0.5mm<sup>2</sup> multi-stranded)
  - Infrared Safety Beams (3 core 0.5mm<sup>2</sup> multi-stranded)
  - Access control device (3 core 0.5mm<sup>2</sup> multi-stranded<sup>4</sup>)
  - Pedestrian keyswitch (2 core 0.5mm<sup>2</sup> multi-stranded) or
  - Keypad (3 core 0.5mm<sup>2</sup> multi-stranded)
  - External radio receiver (3 core 0.5mm<sup>2</sup> multi-stranded<sup>5</sup>)
  - Pillar Lights (3 core LNE SWA<sup>2</sup>, size according to power requirements)
  - Inductive loop detector for free-exit (1 core 0.5mm<sup>2</sup> multi-stranded - silicone-coated<sup>6</sup>)
1. Possibly increase cable thickness if Pillar Lights are to be installed
2. SWA - steel wire armoured. Type of cable must adhere to municipal bylaws and preferably be screened. Screening provides better protection against lightning - earth one end of the screening
3. Allows for all features such as Pedestrian Opening, Status LED, etc. to be operated from the intercom handset inside the dwelling
4. Number of cores and type of cable could vary depending on the brand of access control system being used
5. For optimum range an external radio receiver can be mounted on the wall
6. Number of cores required by the intercom

## OVERALL DIMENSIONS



## RECOMMENDED SPEEDS AND GATE MASSES FOR THE D10 TURBO SMART<sup>1</sup>

Max Speed (M/Min)	Gate Mass (Kg)
45	250
41	300
36	400
32	500
29	600 <sup>2</sup>
27	700 <sup>2</sup>
25	800 <sup>2</sup>
24	900 <sup>2</sup>
23	1000 <sup>2</sup>

- If a D10 Turbo SMART is used on a gate over 250Kg, the speed must be reduced according to the table above to ensure that the gate can be safely stopped in an emergency.
- Centurion Systems (Pty) Ltd recommends the use of a D10 SMART for gates over 500KG.





## 8 GREAT REASONS TO GET THE SDO4 SMART

In the 1960s, Canadian philosopher Marshall McLuhan developed a theoretical framework for understanding media in terms not only of its contents, but also its characteristics, which he expressed through the phrase “the medium is the message”. McLuhan’s pioneering work in the field of media studies enables us to see human artefacts in the context of the role that they fulfil in society. Notably, McLuhan also advanced a hypothesis that the objects we create become extensions of ourselves, for example the wheel being an extension of the foot, the book being an extension of the eye, et cetera.

This anthropomorphisation and externalisation are certainly evident in architecture and how we use space to portray intrinsic human characteristics, with the use of home space being a prime example as it embodies the emotions, such as safety, security and comfort that we experience in inhabiting this space as well as reflecting who we are. As Alexia Mercieca puts it: “[it] is the human element that makes the building what it is, gives it a use, sets a scale and defines its use in society”.

Another perspective to consider when thinking about homes is denotative and connotative meaning, i.e. the meaning that we ascribe to the word. There is the standard, dictionary definition of some sort of building for human habitation but, on an emotional level, home is a place that we equate with concepts such as family, memories and peace of mind.

With the garage being an extension of your home and your home being an extension of you, make sure that your garage door gives you the very best security and convenience by choosing the all-new SDO4 SMART garage door motor for tip-up and sectional doors.

Here’s why:

### **Smooth and silent movement**

Who says you have to be loud to make a statement? With such silent movement, the SDO4 SMART exudes elegance and sophistication and makes for an automated garage door that will be music to your ears.

### **Reliability**

The SDO4 SMART doesn’t cut any corners when it comes to your peace of mind and is ruggedly-built for daily use. The combination of a structurally solid body and the most innovative technology incorporating state-of-the-art motor control circuitry for unflinching accuracy makes the SDO4 SMART the last garage door motor you’ll ever have to buy.

Not only does the SDO4 SMART deliver the highest level of reliability thanks to its high-performance design, but the SMART controller actively monitors system health and provides intelligent diagnostic feedback that your installer can easily access using an intuitive and user-friendly mobile app.

### **Safety**

You’ll rest easier with the SDO SMART garage door motor. With built-in safety features and cutting edge, time-proven obstruction detection technology that immediately stops and reverses the

door, the SDO SMART guards against mishaps and ensures that the door can be operated in absolute safety.

In addition, the SDO4 SMART is compatible with our new Photon SMART fully wireless infrared safety beams. The beams install in minutes, and combine the best features of our SDO4 SMART garage door motor with the power of wireless technology to give you a safe garage door in no time at all.

### **Security**

Utilising an integrated vibration sensor, this ever-vigilant garage door operator is your defence against tampering and forced openings, alerting you via the alarm output to any would-be criminals trying their luck with your garage door. It’s security made SMART!

### **Adjustable speed\***

With the SDO4 SMART, you choose the speed. Fine-tune and customise your experience to match your preferences and master your garage door with the ultimate in control. Whether you want your door to open and close quickly for maximum security, or you prefer more tempered movement, the SDO4 SMART gets it just right.

### **Powerful**

Give your garage door the gift of lift! With boosted performance thanks to its powerful DC motor, the SDO4 SMART garage door motor is as commanding as it’s clever. This hard-driving, souped-up machine boasts an incredible 1000 Newton lifting capacity (1200N for the T12), which means that it’s not only strong enough to lift wide, heavy doors, but it’s faster, more reliable and much smoother than any other garage door motor in its class.

### **Flexibility**

Equipped to tip and exceptional for sectional, the new SDO4 garage door motor offers the ultimate in versatility. Choose between two options – the SDO4 is easily adapted to suit your needs. Whatever your garage door type, this innovative and intelligent operator is optimised for the exact application, giving you the highest level of comfort and reliability.

The SDO4 SMART also boasts a wide range of customising options. Thanks to programmable channels, you control every aspect of your garage door with more choice and more freedom than ever before. Added to that, you can now control an external courtesy light while also having the option of using one of the IOs to indicate a tamper alarm.

### **Battery backup**

It’s time to show load-shedding the door – literally! The SDO4 SMART is the always-on solution for garage doors that shrugs off the rolling power outages that has been causing so much frustration the past month or so. With extended battery backup, you won’t have to give up your comfort, security and convenience when the lights go out.

\*When configured for a tip-up door



## **D20 SMART INDUSTRIAL SLIDING GATE OPERATOR**

A potent powerhouse for peace of mind – that's the D20 SMART: our latest innovative gate automation solution for industrial properties. Equal parts acuity and assertiveness, the D20 SMART heavy-industrial sliding gate motor is powerfully-built to bring the ultimate in security to demanding sites. Experience the power of SMART technology combined with titanic strength.



### **MAIN FEATURES**

- Powerful – suitable for gates weighing up to 2000kg
- Ruggedly-built to withstand even the harshest operating conditions
- Ready for any power outage with reliable battery backup
- Simplified, streamlined installation thanks to SMART hardware
- Innovative theft and break-in protection
- Making lives easier with the friendly and intuitive MyCentsys Pro mobile app
  - Quick and easy commissioning guided by attractive visuals
  - Intelligent management of remote controls
  - Diagnostics and system health feedback
  - Customisable triggers for excellent flexibility

## TECHNICAL SPECIFICATIONS

Technical Data	D20-SMART	
Input voltage	90V - 240V AC +/-10% @ 50Hz <sup>1</sup>	
Current consumption (Mains)	250mA	
Battery charger current output	1.8A @ 27.4V +/-1%	
Maximum number of operations per day	750 <sup>2,5</sup>	
Duty cycle - Mains present <sup>2,3</sup>	45%	
Motor voltage	24V DC	
Motor power supply	Battery-driven (Standard Capacity - 2x 7.2Ah) <sup>3</sup>	
Current consumption (motor at rated load)	9A	
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	52kgf	
Motor push force - rated	39kgf	
Gate mass - maximum	2000kg	
Gate length - maximum	25m	
Gate speed (varies with load) <sup>2,5</sup>	Up to 18m/min <sup>3</sup>	
Manual Override	Lockable lever with key release	
Drive Pinion	13T Module 4	
Operations in standby with 2x 7.2Ah batteries	Operating Mode	
	Power Saving 15m/min 20kgf	Normal 18m/min 20kgf
Half day <sup>2,3,4</sup>	101	55
Full day <sup>2,3,4</sup>	80	45
Collision Sensing	Electronic	
Operating temperature range	-15°C to +50°C	
Onboard receiver type	CENTURION rolling code (Keelog encryption) multichannel	
Receiver code storage capacity	1500 Remotes <sup>6</sup>	
Receiver frequency	433.92MHz	
Degree of protection	IP54	
Mass of unit packed (with standard kit, but excl. rack and battery)	13kg	
Packaging dimensions (with standard kit, but excl. rack and battery)	350mm wide x 282mm deep x 470mm high	

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







## CABLING REQUIREMENTS

1. **D20 SMART:** 220V - 240V AC mains cable via double mains isolator switch (3 core LNE 1.5mm<sup>2</sup> SWA)<sup>1</sup>

### Optional Wiring (all cable is multi-stranded):

2. Intercom, cable from control box to dwelling (n1<sup>6</sup> + 6 core<sup>3</sup> 0.5mm<sup>2</sup> multi-stranded) or cable from control box to entry panel (n2<sup>6</sup> 0.5mm<sup>2</sup> multi-stranded)
  3. Infrared Safety Beams (3 core 0.5mm<sup>2</sup> multi-stranded)
  4. Access control device (3 core 0.5mm<sup>2</sup> multi-stranded<sup>4</sup>)
  5. Pedestrian keyswitch (2 core 0.5mm<sup>2</sup> multi-stranded) or
  6. Keypad (3 core 0.5mm<sup>2</sup> multi-stranded)
  7. External radio receiver (3 core 0.5mm<sup>2</sup> multi-stranded<sup>5</sup>)
  8. Pillar Lights (3 core LNE SWA<sup>2</sup>, size according to power requirements)
  9. Inductive loop detector for free-exit (1 core 0.5mm<sup>2</sup> multi-stranded - silicone-coated<sup>6</sup>)
1. Possibly increase cable thickness if Pillar Lights are to be installed
2. SWA - steel wire armoured. Type of cable must adhere to municipal bylaws and preferably be screened. Screening provides better protection against lightning - earth one end of the screening
3. Allows for all features such as Pedestrian Opening, Status LED, etc. to be operated from the intercom handset inside the dwelling
4. Number of cores and type of cable could vary depending on the brand of access control system being used
5. For optimum range an external radio receiver can be mounted on the wall
6. Number of cores required by the intercom

## OVERALL DIMENSIONS





**SMART ACCESS  
TO YOUR BUSINESS**

**D20 SMART**

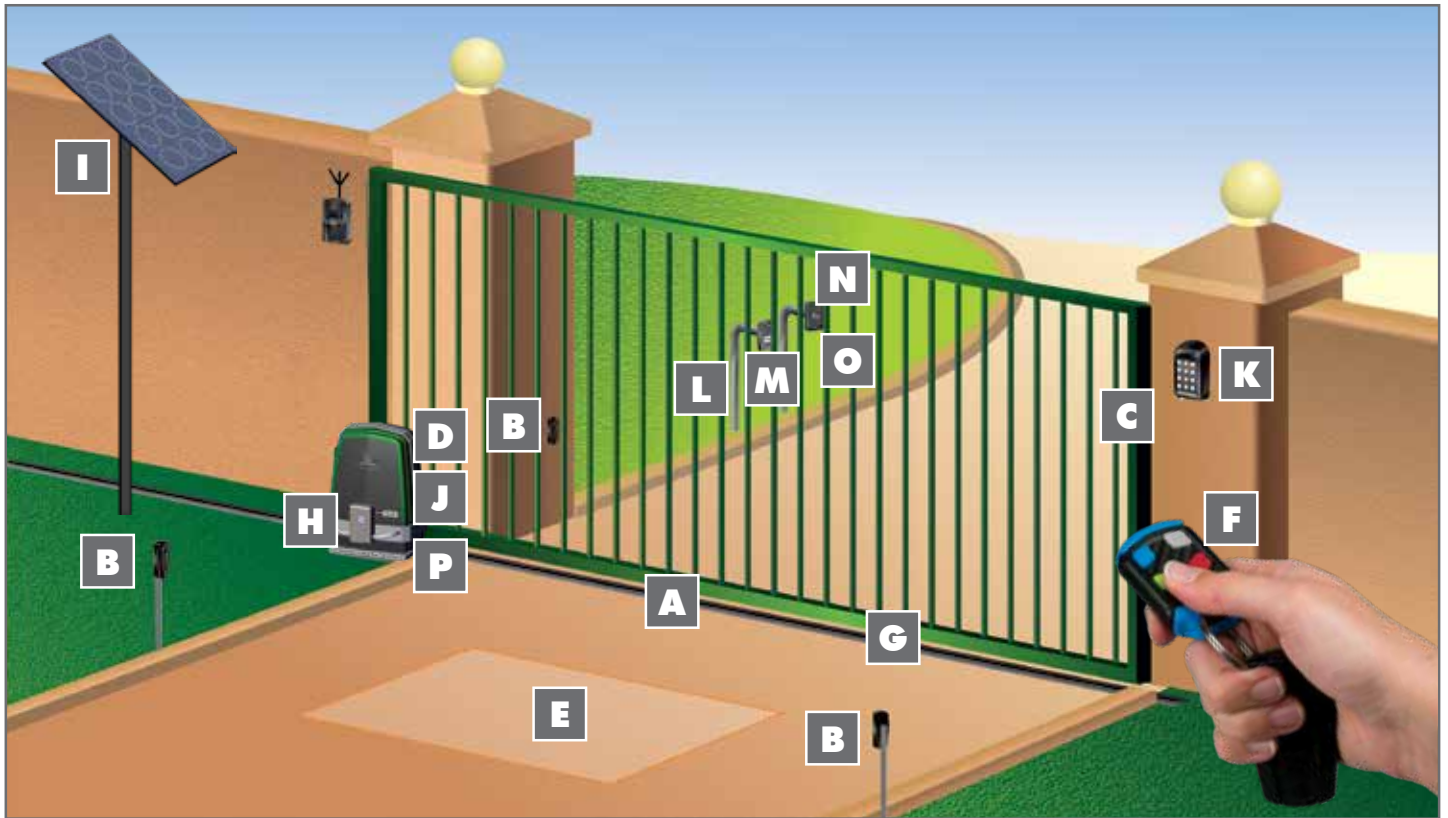
**SMART.**  
The intelligent choice

## INTELLIGENT SECURITY FOR YOUR GATE

When it's time to beef up security, you need **real** muscle, the kind that only **the number one in access automation** can deliver. Introducing the brand new **D20 SMART** industrial sliding gate motor. Packing a heavy duty DC motor, this powerhouse can move a gate weighing up to two tonnes like it's nothing. Because the **D20 SMART** has two backup batteries, it gives you uninterrupted security, convenience and peace of mind. With such a rugged design and the toughest exterior, **it's just built that way.**

Complementing its tough-as-nails mechanical build, **SMART** technology makes the **D20 SMART** as intelligent as it's solid. Everything from setting the limits to managing remotes is done wirelessly using the MyCentsys Pro app, which acts as a complete, highly intuitive user interface that also provides diagnostic feedback and monitors system health in real-time.

If your high-volume site calls for the kind of security that never backs down even when it's pushed beyond the limits of other gate motors, make the intelligent choice and get the **D20 SMART.**



**STEEL, NYLON RAZ OR NYLON ANGLE RACK**  
A variety of rack available in different lengths, for different strengths.



**CENTURION INFRARED SAFETY BEAMS**  
Always recommended on any gate or garage door automation installation to increase the safety of the automated system.



**P36 PASSIVE SENSITIVE EDGE**  
Passive sensitive edge provides additional protection against crushing.



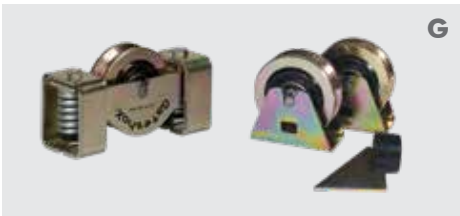
**THEFT-RESISTANT CAGE**  
Retro-installable steel cage that increases the resistance of the operator against theft.



**FLUX SA LOOP DETECTOR**  
Allows free-exit of vehicles from the property (requires ground loop to be fitted).



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



#### WHEEL KITS

A variety of wheel kits are available from Centurion Systems.



#### G-ULTRA GSM DEVICE

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



#### SOLAR SUPPLY

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



#### WIZO-LINK MODULE

Wireless input-output module using mesh network technology creating fully-wireless connections between devices



#### SMARTGUARD or SMARTGUARDAIR KEYPAD

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



#### GOOSENECK

Steel pole for mounting intercom gate station or access control.



#### POLOPHONE INTERCOM

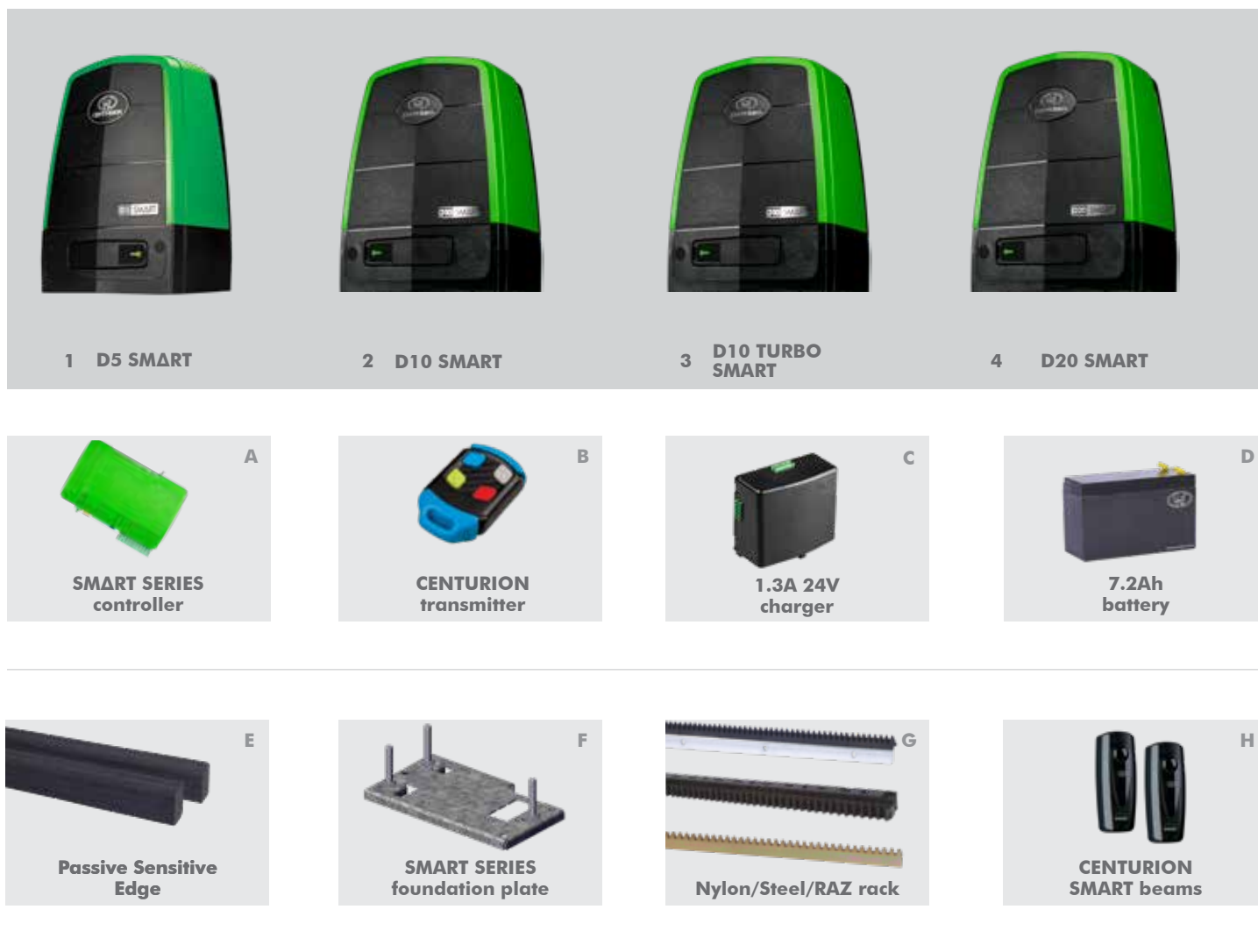
Allows visitors to communicate with people inside in order to gain access to the property.



#### G-SPEAK ULTRA

Allows you to answer your intercom from anywhere





## SLIDING GATE OPERATOR KITS

### D5 SMART FULL KIT

1

Product Code: **D5SMARTFK\_RAZ1 / D5SMARTFK\_STEEL2 / SMARTFK\_NYLON2**

- **1 x D5 SMART operator including:**
  - 2 x 4 button CENTSYS transmitters B
  - 1 x Foundation plate F
  - 1 x Controller A
  - 1 x 1.3A charger c
- 2 x Battery D
- 4m x RAZ rack/Steel rack/Nylon angle rack G

### D10 SMART FULL KIT

2

Product Code: **D10SK\_CB\_STL1**

- **1 x D10 SMART operator including:**
  - 2 x 4 button CENTSYS transmitters B
  - 1 x Foundation plate F
  - 1 x DX Controller A
  - 1 x 24V 1.8A SM charger c
- 2 x 7.2A Battery D
- 4m x Steel rack G

### D10 TURBO SMART FULL KIT

3

Product Code: **D10TSK\_CB\_STL1**

- **1 x D10 TURBO SMART operator including:**
  - 2 x 4 button CENTSYS transmitters B
  - 1 x Foundation plate F
  - 1 x DX Controller A
  - 1 x 24V 1.8A SM charger c
- 2 x 7.2A Battery D
- 2 x PE beams H
- 2m Passive sensitive edge E
- 4m x Steel rack G

4

Product Code: **D20TSK\_CB\_STL1**

- **1 x D20 SMART operator including:**
  - 2 x 4 button CENTSYS transmitters G
  - 1 x Foundation plate s
  - 1 x DX Controller A
  - 1 x 24V 1.8A SM charger N
- 2 x 7.2A Battery N
- 4m x Steel rack G



## MYCENTSYS PRO APP

# MYCENTSYS PRO: THE INTELLIGENT CHOICE TO MAKE YOUR LIFE EASIER

In an increasingly advanced society, technology has become a sort of framing device, a companion piece to humanity's narrative of continuous innovation. Virtually every facet of our reality is viewed through the lens of technology, from culture to the dissemination and consumption of information, with so-called new media, i.e. media that is delivered digitally and is computational in nature, creating a new paradigm in the overall human experience. In the age of mass communication, Canadian communication theorist Marshall McLuhan's famous aphorism of "the medium is the message" certainly rings true, for "it is the medium that shapes and controls the scale and form of human association and action", as per a whitepaper published by MIT.

The rise of mobile applications has been central to this societal transformation, and the vast influence of these "mini programs" permeates our interactions with our environment. According to the CVent blog, mobile apps have changed the world by satisfying our immediate need for information, facilitating instant communication and connection, increasing work productivity, and simplifying daily tasks.

Combining the technological sophistication of CENTURION's most innovative gate motor yet with the power of mobile to deliver cutting edge convenience and futuristic functionality, the next generation of access automation intelligence is here.

The new MyCentsys Pro mobile app has been developed to make life easier with easy, wireless setup and configuration of the CENTURION D5 SMART gate motor, with a robust suite of features tailor-made to help users unleash the full potential of this award-winning operator.

### Why use the MyCentsys Pro app?

- Super-fast setup and configuration of features with graphic wizards to make life even easier
- Easy management of remote controls
- Instant access to advanced, in-app diagnostics and logs
- Intelligent reporting

- Future-proof your business with automatic updates of features
- Adjust gate speed and other operating parameters with a few simple taps
- The app comes pre-loaded with wiring diagrams for the most common applications

### SMART TV

With MyCentsys Pro, users also get an all-access pass to loads of great video content, with new videos being published directly to the app as they are released.

SMART TV offers you:

### Installation tips

Install like a pro and be sliding in no time with easy-to-follow video tutorials and walkthroughs covering everything from fitting the power supply to using a pre-installed baseplate.

### What's new?

The D5 SMART is our most dynamic solution, and we'll continuously be making new functionality available to give you the true SMART experience. With SMART TV, you'll be the first to know about the latest and best features as they are released.

### Watch onsite, at home, or on the go

We automatically publish new videos to the MyCentsys Pro mobile app, so you can watch them anytime, anywhere.

Download the app now free from the Apple App Store or Google Play Store and be part of the future of access automation.



**DOWNLOAD OUR**  
**MyCENTSYSPro MOBILE APP**  
for a smart experience!





## PHOTON SMART WIRELESS INFRARED SAFETY BEAMS

Are you ready for the full SMART experience? The next generation of access automation intelligence is here, combining the technological sophistication of our most innovative operators yet with the power of mobile to give you cutting edge convenience and futuristic functionality at your fingertips.

The new MyCentsys Pro mobile app has been developed to make your life easier with easy, wireless setup and configuration of the CENTURION SMART range, with a robust suite of features tailor-made to help you unleash the full potential of our award-winning technology.



## MAIN FEATURES

- -Super-fast setup and configuration of features with graphic wizards to make your life even easier
- -Easy management of remote controls
- -Instant access to advanced, in-app diagnostics and logs
- -Intelligent reporting
- -Future-proof your business with automatic updates of features
- -Adjust gate speed and other operating parameters with a few simple taps
- -The app comes pre-loaded with wiring diagrams for the most common applications
- -SMART TV video tutorials

## TECHNICAL SPECIFICATIONS

Technival Data	PHOTON SMART
Power supply	2 x AA Alkaline Batteries <sup>1</sup> (supplied for each transmitter and receiver)
Battery life	>2 years
Battery-low indication	Notified via MyCentsys Pro Mobile Application
Maximum operating distance	30m
Alignment between beams <sup>2</sup>	Automatic – 1m @ 10m
Maximum Operating Distance Photon SMART Receiver to SMART Controller	10m
Operating temperature	-15°C to +65°C
Operating humidity	0 - 90% (non-condensing)
Housing material	ABS
Lens material	PC
Degree of Protection	IP54
Packaging weight	200g
Packaging dimensions	Length: 137mm Width: 72mm Height: 58mm

1. Only replace with AA Alkaline batteries; do not use rechargeable batteries with this product
2. Circular area - assuming parallel surfaces







## SDO4 SMART WIRELESS INFRARED SAFETY BEAMS

Choose the garage door motor that gives you more security and more reliability than any other product on the market. Its ingenious design doesn't just make life easier for the installer, but makes for a truly premium experience thanks to its smooth, whisper-quiet movement. This innovative operator also boasts our award-winning SMART technology and is jam-packed with cutting edge features for the ultimate in functionality and flexibility.



### MAIN FEATURES

- Whisper-quiet movement thanks to belt-driven drive mechanism
- Extended battery backup
- The easiest garage door motor to install
- Clever and commanding with a powerful DC motor complemented by the most sophisticated technology
- Innovative vibration sensor guards against tampering, break-ins and forced openings
- Making lives easier with the friendly and intuitive MyCentsys Pro mobile app
  - Quick and easy commissioning guided by attractive visuals
  - Intelligent management of remote controls
  - Diagnostics and system health feedback
  - Customisable triggers for excellent flexibility

## TECHNICAL SPECIFICATIONS

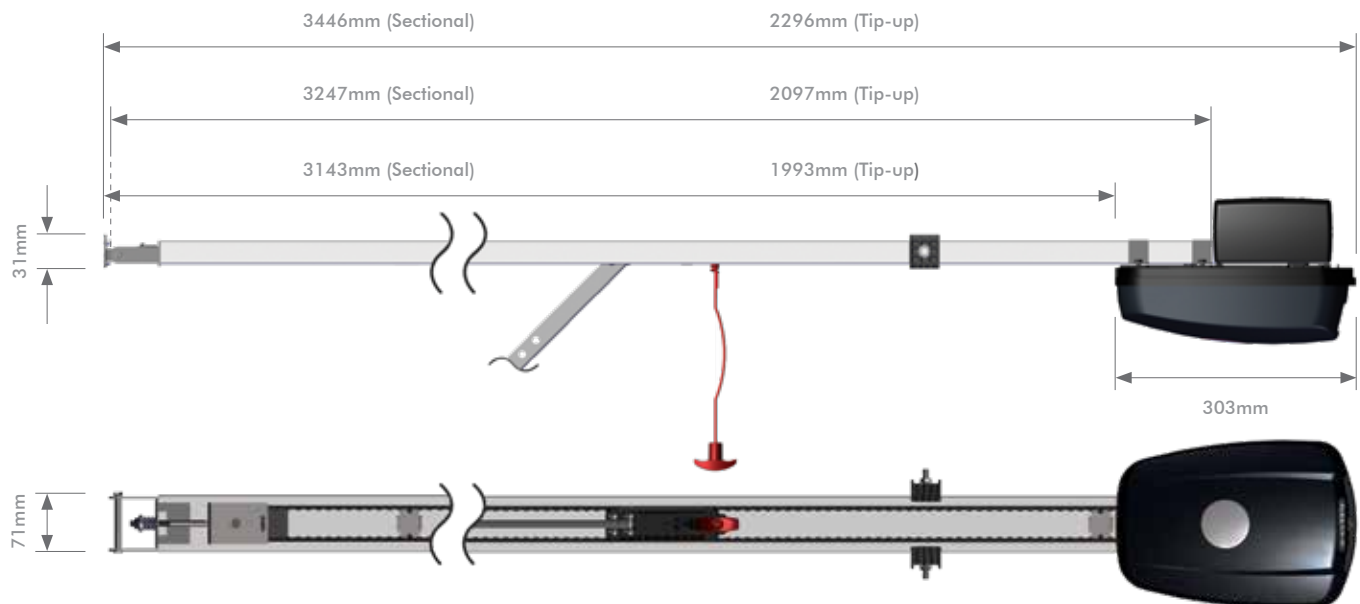
Technical Data	T10	T12
Input voltage	230V AC +/-10% @ 50/60Hz <sup>1</sup>	
Motor voltage <sup>1</sup>	24V DC	
Motor power supply - rated <sup>2</sup>	80W DC	100W DC
Motor supply	Battery supply 2 x 3.4Ah 12V DC	
Maximum door width	6.5 metres	
Maximum door area	12 Square meters	15 Square meters
Maximum push/pull force	40kgf	50kgf
Maximum lifting capacity	1000N	1200N
Operations in standby mode	Up to 90 dependent on door size, weight, height and duration of power failure / condition of batteries	
Maximum operator travel speed <sup>3</sup>	9m/min	
Door travel adjustment	Physical end-stops (Automatic limit set)	
Safety obstruction force system	Built-in menu	
Light	LED 2W	
Autoclose <sup>2</sup>	Menu Selectable	
Infrared safety beams	Menu Selectable (Optional but recommended)	
Onboard receiver type	Code-hopping single channel	
Receiver code storage capacity	20x 4-Button Transmitters	
Receiver frequency	433.92Mhz	

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

2. Can increase battery capacity for longer standby times

3. Speed varies with load

## OVERALL DIMENSIONS





#### CENTURION TRANSMITTERS

Available in one-, two- and four-button variants. Incorporates ultra-secure code-hopping encryption (two four-button transmitters are included with each SDO4 kit)



#### CENTURION INFRARED SAFETY BEAMS

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



#### WIZO-LINK MODULE

Wireless input-output module using mesh network technology creating fully-wireless connections between devices



#### WIRELESS WALL SWITCH

The four-button Wireless Wall Switch can operate the door, turn on the light and activate Holiday Lockout all without running any unsightly wires (Only included with T12 model)



#### SMARTGUARD OR SMARTGUARDAIR KEYPAD

Cost-effective and versatile wired and wireless keypads, allowing access to pedestrians



## SMART ACCESS TO YOUR HOME OR BUSINESS

## WHY SMART TECHNOLOGY MEANS LESS EFFORT FOR YOU

We are living in an age of what has been cleverly called “technological bounty”. This means that technology is so plentiful, and so compelling, that it makes up a considerable part of our social architecture, and it’s certainly enabled some brilliant thinkers, inventors and innovators to let their imagination soar.

Of course, historical innovations made life a lot easier. From the invention of paper currency in 7th century China to Karl Benz perfecting the modern automobile through his work on the internal combustion engine, pure human ingenuity has been the building blocks of civilisation since time immemorial.

However, it is only fairly recently that we have started seeing technology as the driving force behind societal change in the wake of the Fourth Industrial Revolution (or Industry 4.0), a term coined by founder and chairperson of the World Economic Forum, Klaus Schwab.

As Schwab succinctly puts it:

“The more we think about how to harness the technology revolution, the more we will examine ourselves and the underlying social models that these technologies embody and enable, and the more we will have an opportunity to shape the revolution in a manner that improves the state of the world”.

Industry 4.0 set the stage for a wave of innovation, and entire industries are being transformed as technology is adopted, implemented and, in many instances, perfected.

While smart technology isn’t necessarily a product of this trend, with basic systems introduced as early as the mid-1960s, it has certainly become more robust, sophisticated and versatile as integration, digitisation, automation and data exchange become the norm.

When we introduced the D10 commercial slider just over a decade ago, it was a radical departure from the “flashing LED” commissioning system that preceded it, and when we updated the celebrated D5 domestic operator with this GUI-based technology, the D5-Evo quickly became our flagship operator.

This installer-friendly approach cemented our place as a foremost innovator in the access automation space, and it is in our proud tradition of compelling innovation that we are bringing you our most captivating technology yet: SMART. With over 35 years of creating the best experiences for our clients all over the world, and as a noteworthy pioneer in the field, we are taking things to the next level to deliver the next generation in automation excellence.

This is how our SMART technology will save you time and effort and make your life easier:

- Lightning-fast electronic commissioning from a mobile app, with graphic wizards to guide you through every step
- App-based management of remote controls
- Advanced diagnostics and monitoring of system health, including the health of the controller, batteries and charger
- Quick and easy configuration of features, operating modes and run profiles
- The app comes with built-in installation manuals and wiring diagrams
- SMART TV – an all-access pass to SMART video content and tutorials on YouTube







# SLIDING GATE OPERATORS

Centurion Systems' range of technologically-advanced sliding gate operators has been designed to automate virtually any sliding gate and suit a wide variety of applications; from private residences where the gate is only operated infrequently, to large complexes, businesses and industrial installations where the gate could almost be used constantly. All our operators offer functionality far beyond the scope of simply opening and closing your gate, putting a world of control literally at your fingertips.



## SLIDING GATE OPERATOR QUICK SELECTION GUIDE

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



	D2 Turbo	D2 Turbo Low-Voltage	
Input voltage	90V - 240V AC / Solar	10V - 20V AC 10V - 28V DC	
Mains power required at gate	√ / Solar	-	
Gate mass – maximum	250kg	250kg	
Gate speed – maximum	227mm/sec	400mm/sec	
Duty cycle – mains present	Domestic use <sup>1</sup>	Domestic use <sup>1</sup>	
Daily operations - maximum	10 <sup>2</sup>	10 <sup>2</sup>	
Interface type	Dial-based	Dial-based	
Time-barring and automatic activation	-	-	
Onboard multichannel receiver	√	√	

1. Based on a 25° ambient temperature and unit not in direct sunlight

2. Battery-driven typically using a 7Ah (5Ah – D2 Turbo/D2 Turbo Low-Voltage) battery and a charger (battery can be upgraded for greater power failure autonomy – mounted separately). Solar power may also be used.

3. With a brush replacement interval of two years





	<b>D5-Evo</b>	<b>D5-Evo Low-Voltage</b>
	90V - 240V AC / Solar	15V - 19V AC 21V - 26V DC
	✓ / Solar	-
	500kg	500kg
	367mm/sec	400mm/sec
	Light-industrial <sup>1</sup>	Domestic use <sup>1</sup>
	150 <sup>2</sup>	150 <sup>2</sup>
	LCD	LCD
	✓	✓
	✓	✓





## D2 TURBO AND D2 TURBO LOW-VOLTAGE DOMESTIC SLIDING GATE OPERATORS

The **D2 Turbo** is a high-speed, cost-effective operator for domestic gates weighing up to 250kg, with a maximum speed of 400 millimetres per second and powerful peak push force rated at 9kgf. This operator is exceptionally quick and easy to install and set up, with all settings easily configurable via two dials on the controller. With loads of features, the **D2 Turbo** is the complete motor for a standard, domestic four metre gate.

The **D2 Turbo Low-Voltage** operator is designed specifically for sites with no mains at the gate to reduce installation costs while delivering outstanding reliability, comprehensive functionality and selectable high-security or standard speeds. 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

### Mechanical Features

- Battery backup
- Turbo speed for greater security and convenience
- Tough-as-nails steel pinion
- Very easy to install and set up, saving you time and money
- Easy mounting with a revolutionary jacking system
- Lockable, easy manual override
- Modular components clip together for easy maintenance

### Electronic Features

- Simple user interface makes changing settings child's play
- Insect-proof controller housing with removable terminals
- Multiple Modes of Operation with enhanced user interface for exceptionally easy and versatile installation
- Adaptive Collision Sensing – intelligent enough to adapt to changes in the track, but sensitive enough to keep your loved ones safe
- Opening and Closing Safety Beam Inputs with beam circuit functional test
- High-security cleared beam Autoclose, in conjunction with Safety Beams (PIRAC)
- Automatic closing with adjustable time delay, and pushbutton override
- Remote gate-status indicator (gate position, power failure, low battery, multiple collision detection and Pillar Light Status indication)
- Pedestrian Opening

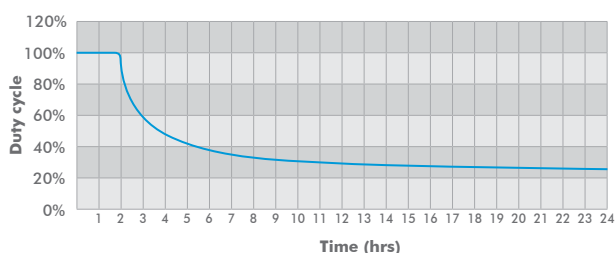
- Holiday Lockout
- Courtesy/Pillar Light (fixed duration), with pre-delays and two Pre-flashing Modes
- Selectable gate speed modes – Low Speed/High Speed (High Speed is the default)
- Positive Close Mode (e.g. to ensure activation of electric fence contact switch)
- Onboard multichannel CENTURION code-hopping receiver with the ability to learn remote control buttons to specific functions (e.g. Gate Trigger, Pedestrian Opening, Holiday Lockout)
- Low-voltage AC or DC input - perfect for installations where there is no mains power at the gate (**D2 Turbo Low-Voltage**)
- Solar power-ready - energy-efficient, environmentally-friendly and offering greater autonomy

## TECHNICAL SPECIFICATIONS

Technical Data	D2 Turbo	D2 Turbo Low-Voltage
Input voltage <sup>1</sup>	90V– 240V AC $\pm 10\%$ , 50Hz	10V - 20V AC $\pm 10\%$ , 50Hz; 10V - 28V DC <sup>2</sup>
Motor voltage	12V DC	12V DC
Motor power supply <sup>3</sup>	Battery-driven (standard capacity - 12V 5Ah)	Battery-driven (standard capacity - 12V 5Ah)
Battery charger <sup>1</sup>	Integral with controller 1A @ 13.7V +/- 1%	Integral with controller 1A @ 13.7V +/- 1% (Input voltage > 15V AC)
Current consumption (mains)	60mA	60mA
Current consumption (motor at rated load)	8/12A	8/12A
Current consumption (quiescent load)	95mA	95mA
Operator push force		
Starting	18kgf	18kgf
Rated	8kgf	8kgf
Gate mass – maximum	250kg	250kg
Gate length - maximum	20m	20m
Gate speed - m/min <sup>5</sup>	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 <sup>3, 4</sup>		
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
Receiver code storage capacity	32 transmitter buttons	32 transmitter buttons
Mass of unit packed	5kg	5kg
Packaging dimensions	Length: 255mm x Width: 188mm x Height: 333mm	Length: 255mm x Width: 188mm x Height: 333mm

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

D2 Turbo single operator duty cycle as a function of operating time



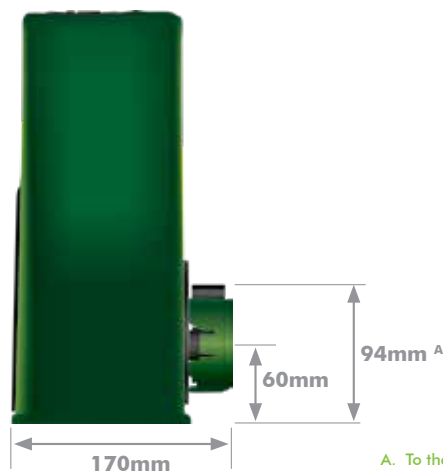


## CABLING REQUIREMENTS

- D2 Turbo:** 220V - 240V AC mains cable via double mains isolator switch (3 core LNE 1.5mm<sup>2</sup> SWA)<sup>1</sup>  
**D2 Turbo Low-Voltage:** 10V - 20V AC cable via transformer in dwelling (3 core LNE 1.5mm<sup>2</sup> Surfix)

### Optional Wiring (all cable is multi-stranded):

- Intercom, cable from control box to dwelling (n1<sup>6</sup> + 6 core<sup>3</sup> 0.5mm<sup>2</sup> multi-stranded) or cable from control box to entry panel (n2<sup>6</sup> 0.5mm<sup>2</sup> multi-stranded)
  - Infrared Safety Beams (3 core 0.5mm<sup>2</sup> multi-stranded)
  - Access control device (3 core 0.5mm<sup>2</sup> multi-stranded<sup>4</sup>)
  - Pedestrian keyswitch (2 core 0.5mm<sup>2</sup> multi-stranded) or
  - Keypad (3 core 0.5mm<sup>2</sup> multi-stranded)
  - External radio receiver (3 core 0.5mm<sup>2</sup> multi-stranded<sup>5</sup>)
  - Pillar Lights (3 core LNE SWA<sup>2</sup>, size according to power requirements)
  - Inductive loop detector for free-exit (1 core 0.5mm<sup>2</sup> multi-stranded - silicone-coated<sup>6</sup>)
1. Possibly increase cable thickness if Pillar Lights are to be installed
2. SWA - steel wire armoured. Type of cable must adhere to municipal bylaws and preferably be screened. Screening provides better protection against lightning - earth one end of the screening
3. Allows for all features such as Pedestrian Opening, Status LED, etc. to be operated from the intercom handset inside the dwelling
4. Number of cores and type of cable could vary depending on the brand of access control system being used
5. For optimum range an external radio receiver can be mounted on the wall
6. Number of cores required by the intercom



A. To the centre of the tooth mesh point of the rack



## DON'T JUST THINK OF THE GREEN MOTOR... THINK OF BEING PART OF THE FAMILY!

Nothing beats a good story, and the story of how CENTURION became a household name has all the ingredients of a truly epic tale.

It all started when husband and wife team Pat and Anne Dickens – our heroes, if you will – embarked on an epic quest to bring security and convenience to the masses. As with any narrative, there was no shortage of challenges and obstacles along the way, and the fledgling company faced many of the hardships that often befall new businesses. The fact that gate automation was virtually unknown in South Africa at the time, coupled with a complicated and changing macro environment, must have made introducing a completely new concept particularly difficult.

How, then, has CENTURION managed to thrive and grow into the access automation giant that it is today?

The truth is that there is no single thing that enabled the brand to become a household name, but rather a combination of compelling innovation, a commitment to quality and a brand essence built upon making life easier for its many customers.

But perhaps the single most important element that has endured for the past thirty years is a

sense of family.

Indeed, Pat and Anne were joined very early on by Anne's brother, Richard Rohman – now the company's managing director – and the three Dickens boys have all served in the CENTURION ranks at one time or another, lending their considerable skills in the fields of finance, engineering and information technology to the business' growing pool of talent.

However, the Dickens' emphasis on community and family values has never been limited to those who are related to them, but is shared by every CENTURION employee. In fact, it is far from uncommon for a member of the team to refer to their colleagues as the "CENTURION family". This culture even extends into the way that we treat our customers, and we go to great lengths to treat every person who deals with us with honesty, integrity and respect, as we would an actual family member.

When you choose CENTURION for your access automation needs, you are never merely a customer; you are part of a great tradition built upon the bedrock of that most sacred of units: the family.

### What does it mean to be part of the CENTURION family?

- It means that you will always receive world-class service and support
- It means that you will deal with warm and friendly staff
- It means that you will be treated with honesty and respect
- It means that, no matter who you are or where you're from, you'll always feel at home with the green gate motor brand





## D5-EVO AND D5-EVO LOW-VOLTAGE DOMESTIC AND LIGHT-INDUSTRIAL SLIDING GATE OPERATORS

**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 requiring reliable, feature-rich gate automation.

**D5-Evo Low-Voltage:** This model 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. All that is needed to breathe life into the feature-rich LCD controller is a low-voltage input, easily obtainable via a step-down transformer, dramatically reducing installation costs.



## MAIN FEATURES

### Mechanical Features

- Battery backup
- Lockable, easy manual override
- Custom-engineered gearbox molded from durable engineering polymer
- Save on cabling costs - no thick, expensive high-voltage cables (**D5-Evo Low-Voltage**)
- No need to fit costly isolators (**D5-Evo Low-Voltage**)

### Electronic Features

- LCD interface - exceptionally easy setup with visual and audible diagnostics and notifications
- Advanced diagnostic screens indicating:
  - Battery-low
  - Battery charge level
  - Fuse blown
  - High current draw
  - Details of the last transmitter activated
  - Health of the drive electronics
  - Currently-activated gate inputs
  - See Diagnostics Made Easy booklet for further details
- Intelligent speed control - high-speed for greater security and convenience; slower speed for increased safety
- Local test button can be deactivated for added security
- Sensitive anti-crushing protection for greater safety
- Integrated ChronoGuard timer functionality (a world first) - Time-barring and Auto-activation features for switching on Pillar Lights, deactivating ground loops, etc.
- Multiple operating features including Intruder-detection Alarm Modes (a world first)
- Remote gate-status indicator (gate position, power failure, low battery, multiple collision detection and Pillar Light Status indication)
- Onboard multichannel CENTURION code-hopping receiver incorporating the following functionality:
  - Selective add and delete
  - Onboard receiver can be disabled
  - 500 transmitter button memory
  - Automatic maintenance features like Delete-Not-Present
- Opening and Closing Safety Beam Inputs
- Integrated Beam Test hardware to ensure the beams are always working correctly

## TECHNICAL SPECIFICATIONS

Technical Data	D5-Evo	D5-Evo Low-Voltage
Input voltage	220V AC +/-10% @ 50Hz <sup>1</sup>	15V - 19V AC <sup>2,3</sup>
Motor voltage	12V DC	12V DC
Motor power supply <sup>4</sup>	Battery-driven (standard capacity - 12V 7Ah)	Battery-driven (standard capacity - 12V 7Ah)
Battery charger	CP84SM – 1.8A @ 13.7 +/-1%	CP84XTE – 800mA @ 13.7 +/- 1%
Current consumption (mains supply)	60mA	60mA
Current consumption (motor rated / peak load)	8/15A	8/15A
Current consumption (quiescent load)	75mA	75mA
<b>Operator push force</b>		
Starting	30kgf	30kgf
Rated	17kgf	17kgf
Gate mass – maximum	500kg	500kg
Gate length - maximum	100m	100m
Gate speed - m/min <sup>6</sup>	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
<b>Operations in standby with standard battery <sup>4,5</sup></b>		
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
Receiver code storage capacity	500 transmitter buttons	500 transmitter buttons
Mass of unit packed	10kg	10kg
Packaging dimensions	Length:303mm x Width: 231mm x Height: 432mm	Length:303mm x Width: 231mm x Height: 432mm

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

2. Plug-in transformer

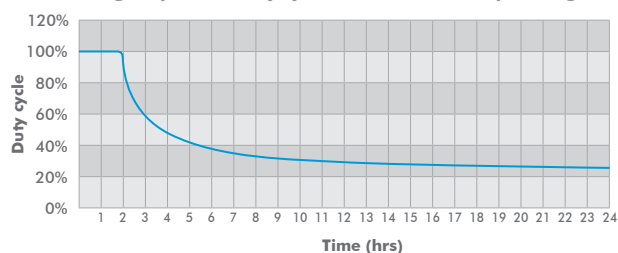
3. Solar panel

4. Can increase battery capacity for longer standby times

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

6. Gate operating speed can be set slower depending on requirements of individual installations.

D5-Evo single operator duty cycle as a function of operating time



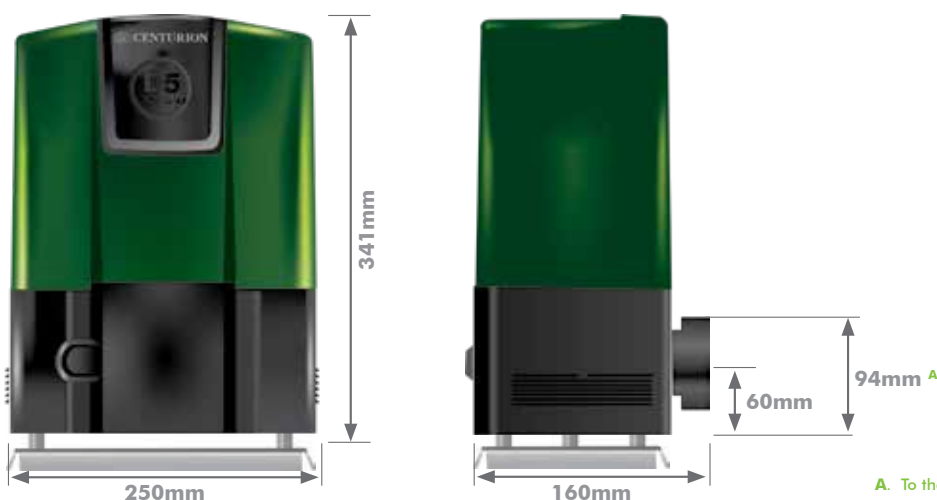


## CABLING REQUIREMENTS

1. **D5-Evo: 220V** - 240V AC mains cable via double mains isolator switch (3 core LNE 1.5mm<sup>2</sup> SWA)<sup>1</sup>  
**D5-Evo Low-Voltage:** 15V - 19V AC cable via transformer in dwelling (3 core LNE 1.5mm<sup>2</sup> Surfix)

### Optional Wiring (all cable is multi-stranded):

2. Intercom, cable from control box to dwelling (n1<sup>6</sup> + 6 core<sup>3</sup> 0.5mm<sup>2</sup> multi-stranded) or cable from control box to entry panel (n2<sup>6</sup> 0.5mm<sup>2</sup> multi-stranded)
  3. Infrared Safety Beams (3 core 0.5mm<sup>2</sup> multi-stranded)
  4. Access control device (3 core 0.5mm<sup>2</sup> multi-stranded<sup>4</sup>)
  5. Pedestrian keyswitch (2 core 0.5mm<sup>2</sup> multi-stranded) or
  6. Keypad (3 core 0.5mm<sup>2</sup> multi-stranded)
  7. External radio receiver (3 core 0.5mm<sup>2</sup> multi-stranded<sup>5</sup>)
  8. Pillar Lights (3 core LNE SWA<sup>2</sup>, size according to power requirements)
  9. Inductive loop detector for free-exit (1 core 0.5mm<sup>2</sup> multi-stranded - silicone-coated<sup>6</sup>)
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A. To the centre of the tooth mesh point of the rack