CENTSYS

SECTOR II

HIGH-VOLUME INDUSTRIAL BOOM GATES

Precision engineering, impressive speed, best performance

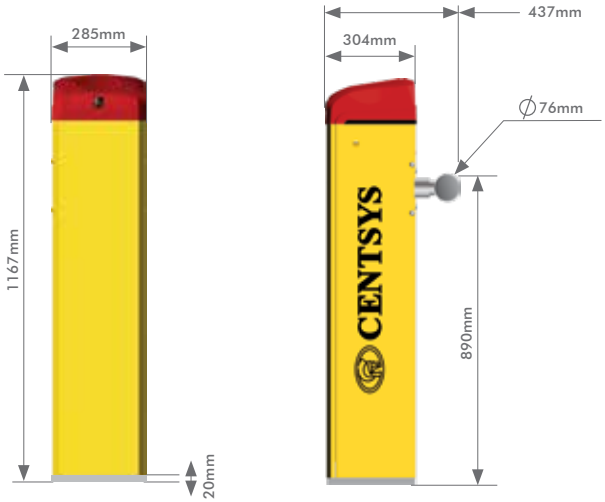
Centurion Systems is a Company of the FAAC Simply Automatic Business Unit
FAAC Simply automatic. 50 YEARS
ISO 9001:2008
24 MONTH WARRANTY

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.

OVERALL DIMENSIONS



The SECTOR II standard colour is Traffic Yellow, however other colours are available via special orders (price premiums and longer lead times apply).

Yellow
VX 3405

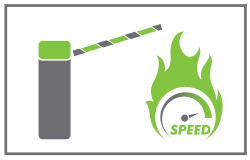
White
VX 1418

Gunmetal Grey
VX 9468

Beef up your backup

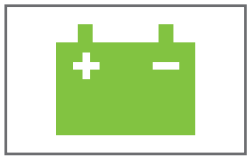
Need even more peace of mind? We've got you covered. An optional extended battery tray kit enables you to fit a larger-capacity backup battery, up to 33Ah, and rest easy knowing your boom gate will keep on moving long, long after the lights go out. Because of the bigger battery's increased capacity, it will remain charged for a longer period of time, making it the perfect choice for solar installations. The kit includes an extended battery harness, so there's no need for cumbersome modifications and tricky, unreliable joints.

MAIN FEATURES



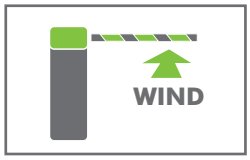
Rapid opening

Lots of vehicles coming in and out? You need something that goes up and down. Fast!
The **SECTOR II** is ideal for high-volume applications and puts a manically ticking metronome to shame – raising a three metre pole in under 1.2 seconds and lowering it just as quickly.



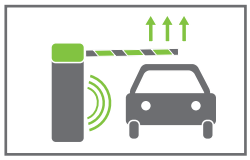
Battery backup

With our 12V battery-driven motor, your security is never compromised. The **SECTOR II** will continue to stay on, even when the power is off – beating up and down 3000 times during a 24 hour power failure before it needs a recharge. If you're expecting no power for a while, the built-in mains failure detection can be set to keep the barrier raised under power failure conditions.



High-torque boom pole operation

The **SECTOR II**'s DC motor and reduction gearbox generate enough torque to make sure that your boom goes up and down for ever and ever. Come sunshine, rain or howling winds, you'll always be able to get in and out.



Safe sensitivity for boom pole lowering

Your boom won't go BOOM on the roof of a visitor's car. The **SECTOR II** will detect any obstruction, so you're safe – and won't have to fill out any of those pesky insurance forms.

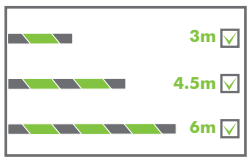
Robust, durable and slimline operator casing

Our slim **SECTOR II** looks particularly fetching – and epoxy-coating, in a highly visible 'traffic yellow', keeps it safe from drivers with terrible eyesight while improved torsional rigidity makes the **SECTOR II** even stronger in windy conditions.
SECTOR II housing is manufactured in an epoxy-coated Grade 430 Stainless Steel, and is also available in a brushed Grade 316 Stainless Steel option (longer lead times and price premium applies).

1. Refer to barrier housing specifications on the back page.

Easy access to electronics

It's so easy and comfortable to set up the **SECTOR II**'s many advanced features thanks to the clever, ergonomic design of the housing, with the electronic assembly at the top of the operator at the perfect working height.

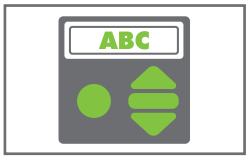


When size matters

Whether closing off an entrance from as narrow as three metres to as wide as six metres, there is a **SECTOR II** model to suit. Fit the optional jack-knife and your **SECTOR II** can even be fitted in areas with limited headroom.

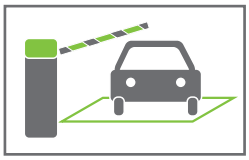
Improved cable routing and securing for the neatest installation

Every aspect of the **SECTOR II** has been designed to streamline installation and ensure that your access control system not only works hard, but looks good, too. Tie strap sockets have been provided on both the cabinet and the electronics tray, with cable routing down the front flange of the cabinet, resulting in an installation that's as neat and tidy as an officer in uniform.



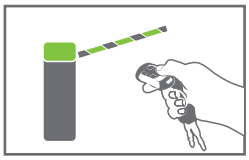
Comprehensive input and output

With our intuitive, user-friendly LCD interface, setting up the **SECTOR II** is not just simple – it's child's play. Set the **SECTOR II** to handle any vehicle access control application with the touch of a button. To make things even easier, our state-of-the-art motor controller not only ensures smooth and reliable operation, it allows you to set your boom's opening and closing speed to your liking.



Onboard loop detector support

If you'd like to fit an additional loop, simply clip a CENTSYS standalone loop detector into the convenient custom bracket or connect the loops and you're good to go!



Operate wirelessly, thanks to CENTSYS[2]

Besides its code-hopping technology offering the highest level remote control security, the CENTSYS onboard receiver is both multichannel and multi-user, allowing a multi-button remote to operate any combination of the system inputs, such as Barrier Raise, Barrier Lower, etc. It stores up to 500 transmitter buttons, and amongst other access control features, it provides the ability to selectively add and delete transmitter buttons saved into its memory.

2. CENTSYS code-hopping

SECTOR II CONTROLLER FEATURES

Hardware features

- Fully-sealed plastic housing for controller to prevent ingress of dirt and insects
- Easy setup of controller using LCD user interface
- Removable connectors on controller for easy maintenance
- Watchdog IC ensures full and safe operation of controller
- Optional Backup Memory Module allows backing up of all the information that has been set up in the system
- The **SECTOR II** is available in three stylish and modern colour configurations to suit your aesthetic requirements. Enquire at your local CENTSYS agent
- Electronics reside at top of enclosure for easy access

Electronic features

- Barrier raise and lower inputs
- Memory and non-memory barrier activation
- Onboard multichannel CENTSYS code-hopping receiver with the ability to:
  - Learn transmitter buttons to specific functions (e.g. Barrier Raise, Barrier Lower, etc.)
  - Selectively delete specific transmitters that have been lost or stolen
  - Automatically learn transmitters (Autolearn) and automatically delete transmitters that are no longer in use (Delete-Not-Present)
- Full configuration of barrier operating parameters including independent pole raise and lowering speeds, ramp-up and ramp-down angles
- Automatic closing
- Multiple Operating Profiles to suit region – select between ZA, CE, etc.
- Multichannel controller with integrated ChronoGuard timer technology (a world first)
- Free-exit facility[1]
- Remote boom pole status indicator[2] (pole position, power failure, low battery, multiple collision detection and security light status indication)
- Courtesy / Pillar Light Timer with adjustable duration[3]
- Fully configurable pre-delays with multi-modal pre-flash[4]
- Safety / Closing beam input with beam functional test[5]
- Lock / Emergency stop input[6]
- Ticket Vend Interlock[7].

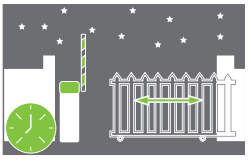
1. Inductive loop detector or infrared beams must be fitted
2. Remote LED must be fitted
3. An external pillar light must be connected to enable this feature
4. An external light must be connected to enable this feature
5. Infrared safety beams (photocells) or equivalent detection device must be fitted
6. To use this feature, a normally closed emergency stop pushbutton must be fitted
7. This feature enables connectivity to a ticket vending machine

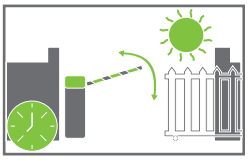
CHRONOGUARD TIMER TECHNOLOGY (a world first)

The **SECTOR II** is so advanced it takes access control at the boom gate entrance to the next level.

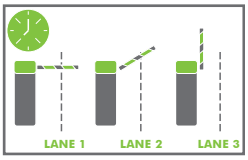
With CENTSYS's ChronoGuard timer technology onboard, any of the **SECTOR II**'s inputs that activate the boom gate can be set to operate automatically or be time-barred at any time you choose. Its built-in Real Time Clock and Calendar timer allows you to set up different exclusions, which can cater for public holidays, special Time-periods, etc.

Once you've set up the **SECTOR II**'s ChronoGuard using the intuitive LCD screen on the controller, you'll start feeling particularly redundant. For instance:

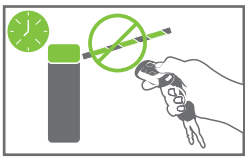




Very often, boom gates are used in conjunction with motorised gates at the entrances to business parks, housing estates, etc. The boom gate controls access during the day when traffic volumes are high, while the gate is used at night when greater security is required. ChronoGuard can now be used to automatically switch operation from the **SECTOR II** to the gate motor as and when required. Security has never been this convenient.



To increase security and control traffic flow you can automatically shut down certain traffic lanes controlled by the **SECTOR II** at quieter times of the day, or over weekends and on holidays.



ChronoGuard gives you the ability to time-bar transmitters that have been learned into the system. This gives you the flexibility to control when your barrier can be opened by specific transmitter holders. For example, staff may be given access to the office park during the week, but on weekends you may wish to limit their access to the property.

ChronoGuard technology allows for almost unlimited time-based functionality, all of which is very simply set up on the controller via the intuitive menu system and LCD user interface. The following functionality is available:

- Time-activate many of the physical inputs and outputs of the controller (see table below)
- Time-bar many of the physical inputs and outputs of the controller, as well as particular remote buttons learned into the onboard receiver (see table below)
- The Real Time Clock and Calendar timer has the following flexibility:
  - It supports 100 Time-periods, that may be set according to:
    - Weekdays (M + T + W + T + F)
    - Weekends (S + S)
  - Special calendar events (family holiday, etc.) occurring on any date until the year 2100
  - Annual calendar events (New Year's Day, etc.)
  - Allows for multiple Time-periods to be set during a 24-hour period
- The Real Time Clock and Calendar timer is backed up for at least one hour to maintain the current time and date in the event that all power is removed from the controller

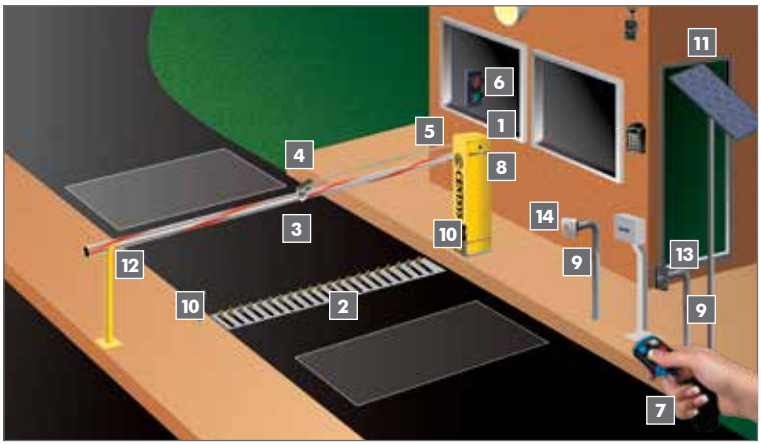
	Physical inputs						**Physical outputs**	
	MI: Memory input	NMI: Non-memory input	Raise: Barrier raise	Lower: Barrier lower	Lck/Stp: Holiday Lockout	ILP: Inductive loop detector	Aux IO: Auxiliary output	Aux IO: Auxiliary input/ouput
Time-activate	✗	✗	✓	✓	✓	✓	✓	✓
Time-bar ⊘	PHYS +	PHYS +	PHYS +	PHYS +	PHYS +	PHYS +	PHYS +	PHYS +
	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✗ ✗	✗ ✗	✗ ✗

Aux IO - open collector output that can be used to drive an external relay for operating any external device, eg. water feature, security lights, etc.

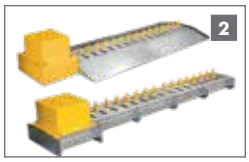
PHYS physical connection to an external device, eg. Inductive Loop Detector, SMARTGUARD keypad, etc

+ interfaces with onboard CENTSYS code-hopping receiver

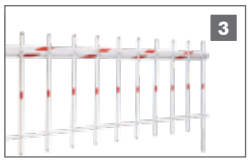
ACCESSORIES



FLUX 12-24V DC
Required to enable the free-exit facility or the closing/safety loop facility - ground loop to be fitted



CLAWS
Add real security with seamless integration to our **SECTOR II**. Four different configurations available



TRAPEX
A traffic barrier pedestrian fence that stops people from circumventing the **SECTOR II** access control point

Jack-knife assembly
Accommodates applications with limited headroom

Breakaway Coupling
Pole hinges away from barrier if accidentally knocked reducing the chance of it being damaged

MIDI Traffic Light
Visually indicate when it is safe for a vehicle to proceed into or out of an access controlled area

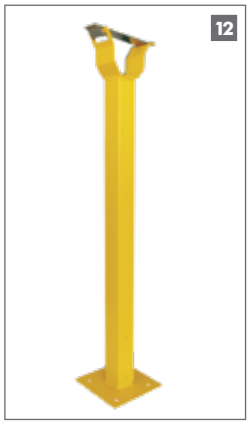
CENTSYS transmitters
Available in one-, two-, three- and four-button variants. Incorporates code-hopping encryption

Backup Memory Module
Back up all the transmitters and operating details set up in the controller

Gooseneck
Steel pole for mounting intercom gate station or access control reader

CENTSYS Infrared beams
Always recommended on any gate automation installation

Solar supply
Alternative means of powering the system - consult your CENTSYS dealer



Catchpost
Allows locking the boom pole in the lowered position - recommended with 6m boom poles to support pole tip and prevent drooping due to flexure in the pole

Extended battery tray
Capable of supporting a 33Ah battery. Ideal for solar-powered installations. Kit includes extended battery harness.

CP5C2 33Ah battery
This deep-cycle battery provides superior power failure autonomy and remains charged for much longer.

TECHNICAL SPECIFICATIONS

Technical Data	SECTOR II 3	SECTOR II 4.5	SECTOR II 6
Input Voltage[1]	240V 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]	3.0m	4.5m	6.0m
Boom Pole Raise Time	1.2 sec	3 sec	
Duty Cycle	100%		
Design Life[4]	2 000 000 cycles	1 800 000 cycles	1 500 000 cycles
Operations in standby mode with standard battery			
Half Day[5]	3 000 cycles	2 900 cycles	
Full Day[5]	3 000 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 rolling code (Keelog ™ encryption) 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 CENTSYS 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

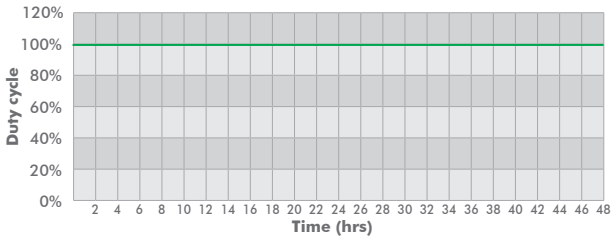
BARRIER HOUSING SPECIFICATIONS

	SECTOR II Grade 430	SECTOR II Grade 316
Application	Coastal plains - no airborne salt	Marine areas
Housing construction	Stainless steel housing, 1.6mm wall thickness with separate fabricated base frame, 3mm wall thickness to raise housing above ground. Separate fabricated stainless steel door with 1.2mm wall thickness. Die-Cast Grade LM24 Aluminium Cover with condensation shield	
Barrier housing surface protection	Grade 430 stainless steel with epoxy coating.	Grade 316 stainless steel, brushed finish
Base frame surface protection	Mild steel hot dip galvanised	Grade 316 stainless steel
Housing colour	Cover: Red, Main Body: Traffic Yellow	Cover: Red, Main Body: Brushed Stainless Steel

BOOM POLE SPECIFICATIONS

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

DUTY CYCLE



Call: 1300 CENTSYS (1300 236 879)
After Hours International Technical Support Call Centre: **+27 11 699 2481 (16:00 to 02:00 - Australian Eastern Time)**
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