TRAFFIC BARRIER SYSTEMS

Centurion Systems' traffic barriers provide a robust solution for managing vehicular access. We've spared no effort in designing barriers capable of handling the highest traffic loads, all while delivering top-tier security and a host of advanced features. Additionally, we've curated a selection of complementary accessories to enhance security even further when paired with our traffic barriers

SECTOR II
HIGH-VOLUME INDUSTRIAL TRAFFIC BARRIER

The SECTOR II high-volume traffic barrier offers the best security for commercial, residential and industrial sites, while simultaneously making life easier for installers thanks to its innovative mechanical design and electronics that reside at the top of the enclosure, as well as quick and easy commissioning via an intuitive graphic interface flush with features.

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.

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MAIN FEATURES

Mechanical Features

This high-volume traffic barrier helps to guard against unauthorised access, tailgating, vehicle theft and circumvention of paid parking systems with its rapid lowering of the boom pole – thereby significantly increasing security – and is tough enough to work reliably no matter where it is installed. When we developed the SECTOR II high-volume traffic barrier, we didn't cut any corners to ensure that it is a steadfast solution of the highest quality and durability. Now with a strong, durable and stylish rectangular boom pole and integrated LED strip for increased visibility and safety.

- -High-performance gearbox delivers excellent dependability and longevity on sites with heavy traffic volume
- -Reliable battery-driven technology means the SECTOR II is ready for any power outage
- -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
- -Sturdy and great-looking rectangular boom pole, raising visual appeal
- -LED strip for increased visibility and safety

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 rcode-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

BARRIER HOUSING SPECIFICATION

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

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
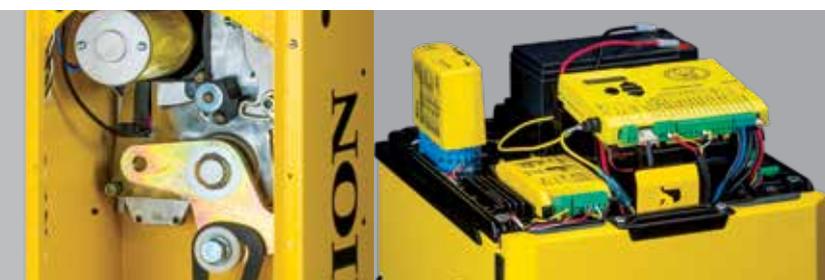
The SECTOR II is available in three stylish and modern colour configurations to suit your aesthetic requirements. We are also able to provide barriers in custom colours. However, price premiums and longer lead times may apply. Enquire at your local CENTURION agent for more information.

Yellow

White

Gun-metal grey[1]

1. A price premium applies for the grey finish.

387mm

304mm

85 x 50mm

3000mm

4500mm

6000mm

932mm

890mm

285mm
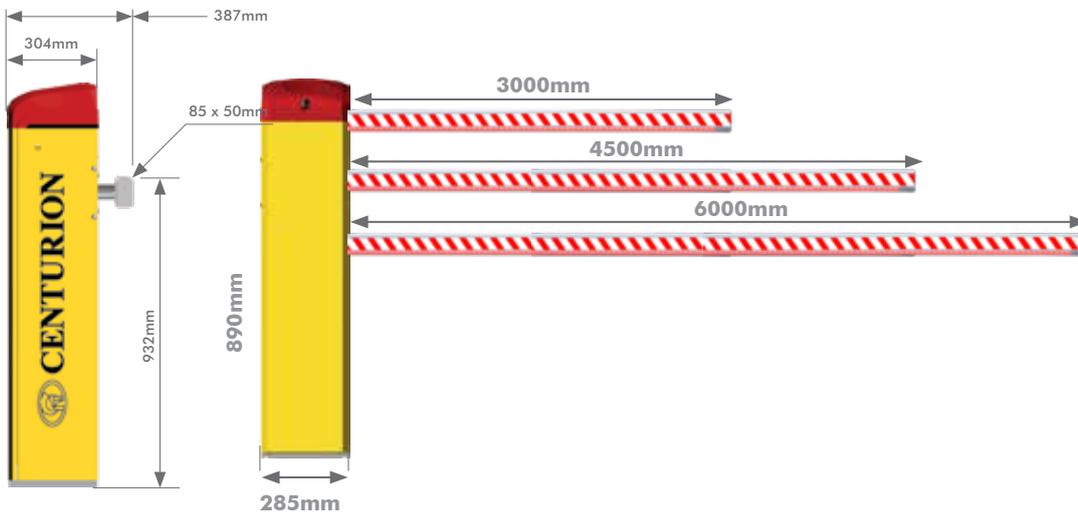
SECTOR II single operator duty cycle as a function of operating time

Duty cycle

120%
100%
80%
60%
40%
20%
0%

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 2

Time (hrs)
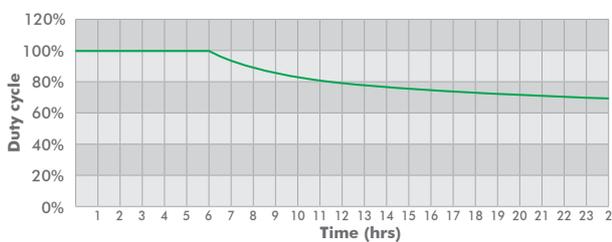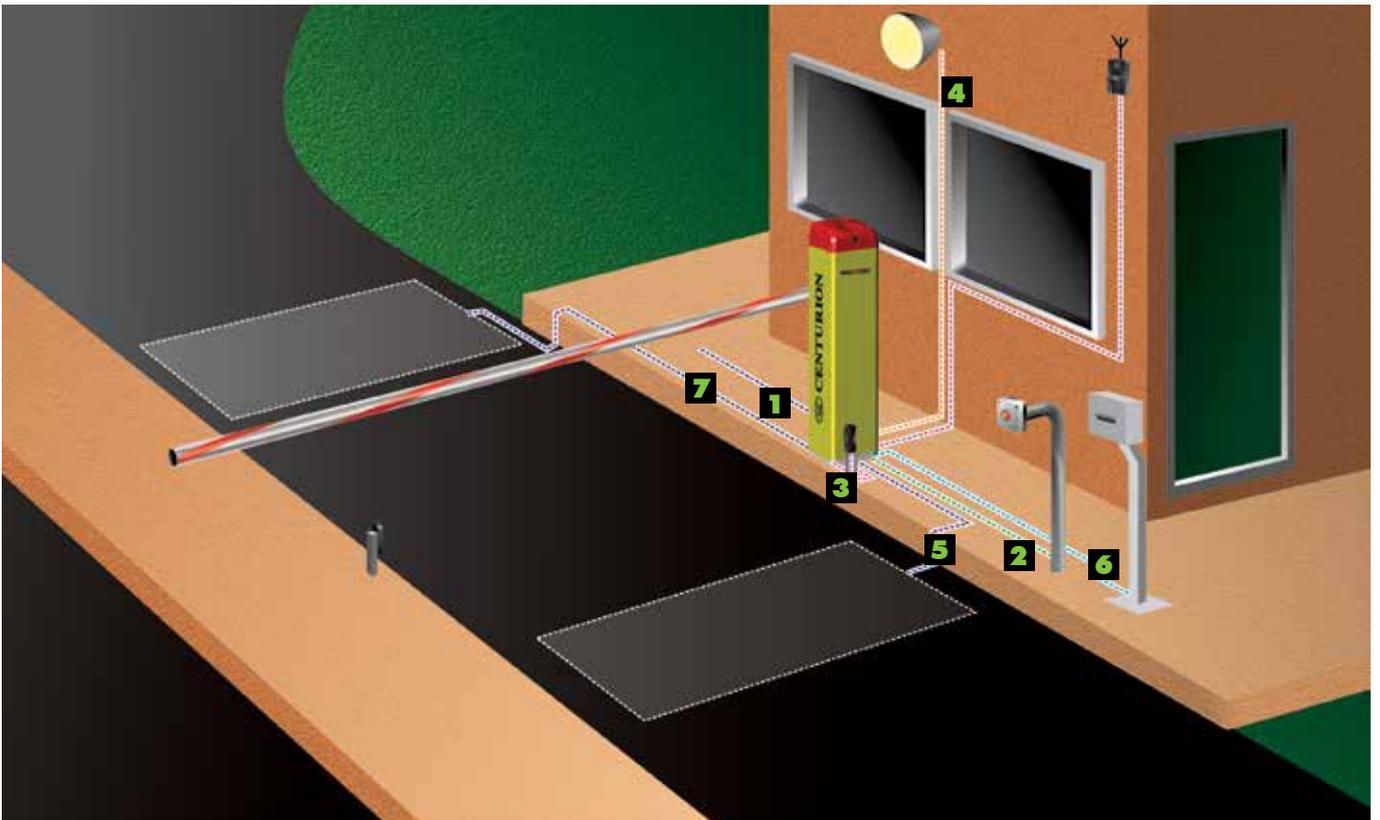
CABLING REQUIREMENTS

1.   220V - 240V AC mains cable (3 core LNE 1.5mm^2 SWA)[1]

Optional Wiring (all cable is multi-stranded):

2.   Pushbutton control (2 core 0.5mm^2 multi-stranded)

3.   Infrared Safety Beams (3 core 0.5mm^2 multi-stranded)

4.   Optional Pillar Lights (3 core LNE SWA[1], size according to power requirements)

5.   Inductive Loop Detector for closing or safety (1 core 0.5mm^2 multi-stranded silicone-coated)

6.   Access control device (2 core 0.5mm^2 multi-stranded)[2]

1. Type of cable must adhere to municipal bylaws but typically SWA (steel wire armoured) cable is recommended. The armouring provides excellent screening, which gives better protection against lightning – earth one end of the screening

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

CENTINEL
MANUAL TRAFFIC BARRIER

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

A hard-driving, high-powered gearbox and tough-as-nails enclosure deliver the ultimate in long-term performance, placing the SECTOR II high-volume traffic barrier in a class by itself.

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**
  The actuating handle is designed for comfortable and easy handling of the pole

- **Simple locking system**

- **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 support and 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
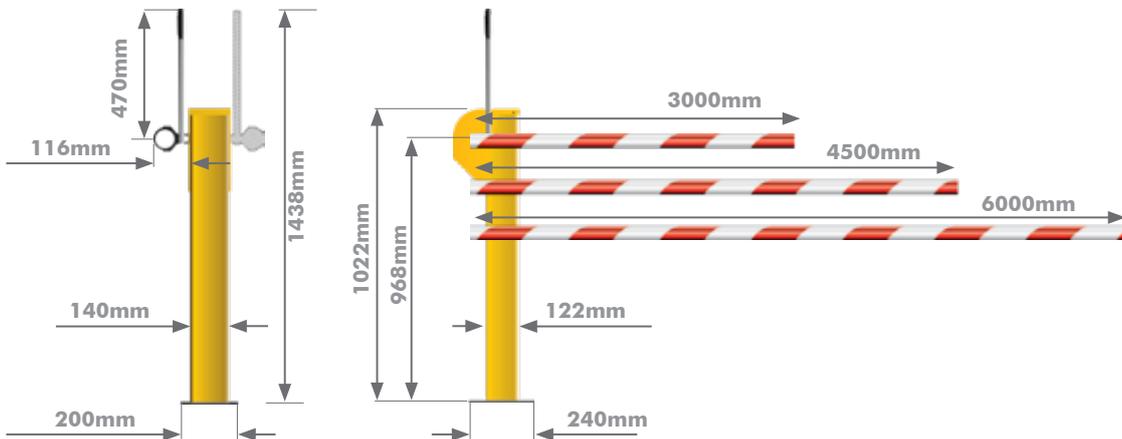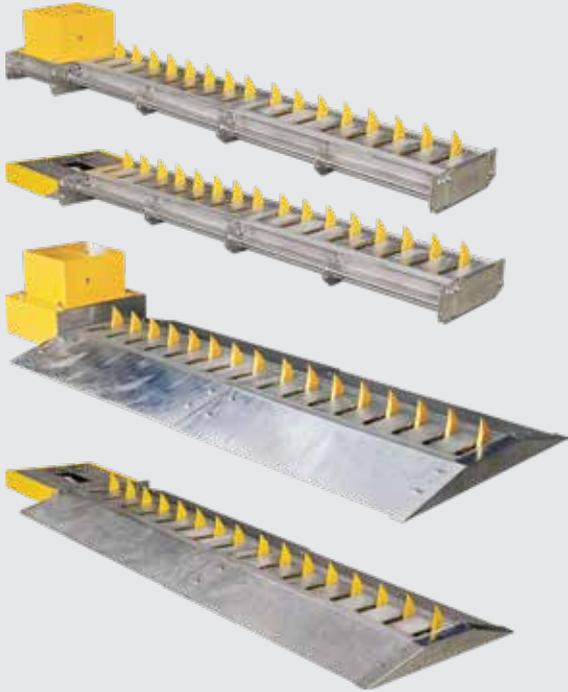
CLAWS ROADWAY SPIKES
FOR HIGH-VOLUME ACCESS CONTROL

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

- Reliable battery backup – continued operation even during power failures
- High-torque DC motor for long-term reliability
- Selectable High-security or Safe Modes
- Independent Drive model has its own drive mechanism and controller which synchronises with the **SECTOR II** controller
- Direct Drive model utilises the **SECTOR II**'s drive mechanism
- Flush-mount and surface-mount options available
- Modular construction – flexible and easy to transport
- Modular units allow for ex-stock delivery

- Traffic light systems are easily interfaced
- CLAWS are ideal for:
    - Car dealerships
    - Office parks
    - Residential estates
    - Shopping centres and retail complexes
    - Hospitals
    - High-security sites such as airports and embassies where it is critical to prevent unauthorised access

400mm

MI -1500mm
MI.5 -1500mm

385mm

524mm

3385mm[1]

145mm

196mm

Flush-mount CLAWS
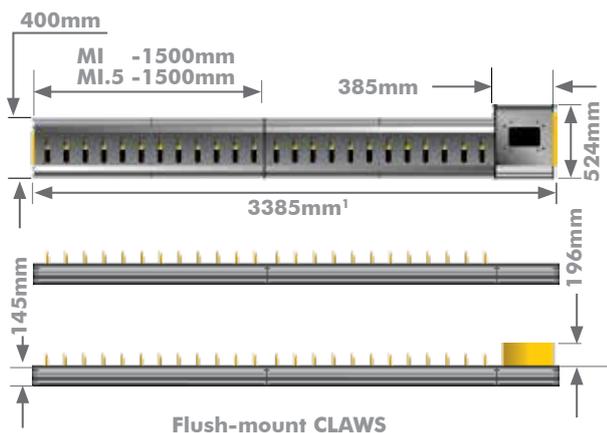
1. Overall length using 2 x M1.5 modules

MI -1500mm
MI.5 -1500mm

405mm

870mm

524mm

3425mm[1]

85mm

Surface-mount CLAWS

170mm

340mm
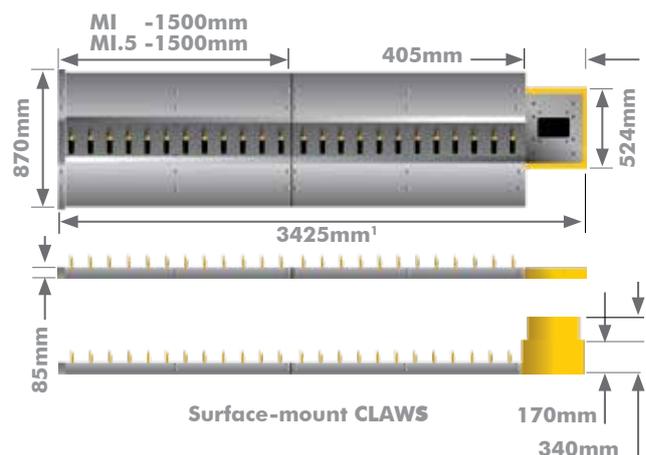
TECHNICAL SPECIFICATIONS

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

HOUSING SPECIFICATION

Technical Data	Independent Drive CLAWS - Drive Unit	Independent Drive CLAWS with Co-Installed SECTOR II	Direct Drive CLAWS with Co-Installed SECTOR II
Application	Inland to Coastal plains – no airborne salt	Inland to Coastal plains – no airborne salt	Inland to Coastal plains – no airborne salt
Housing construction	Flush and Surface Mount available	Flush and Surface Mount available	Flush and Surface Mount available
Barrier housing surface protection	Zinc Electroplated Mild Steel, Powder- Coated	Zinc Electroplated Mild Steel, Powder- Coated	Zinc Electroplated Mild Steel, Powder- Coated
Base frame surface protection	Hot-Dip Galvanised Mild Steel	Hot-Dip Galvanised Mild Steel	Hot-Dip Galvanised Mild Steel
Housing colour	Drive Body: Traffic Yellow, Frame: Speckled Silver of Galvanising	Drive Body: Traffic Yellow, Frame: Speckled Silver of Galvanising	Skirt: Traffic Yellow, Base Frame: Speckled Silver of Galvanising
Packing weight			
Unit - flush mount	37 kg	37 kg	28 kg
Unit - surface mount	33 kg	33 kg	26 kg
Packing dimensions			
Unit - flush mount	Length:490mm x Width: 390mm x Height: 340mm	Length: 490mm x Width: 390mm x Height: 340mm	Length: 490mm x Width: 390mm x Height: 145mm
Unit - surface mount	Length: 470mm x Width:390mm x Height: 380mm	Length: 470mm x Width: 390mm x Height: 380mm	Length: 530mm x Width: 410mm x Height: 85mm

TRAPEX
BARRIER FENCE

The **TRAPEX** Barrier Fence is a robust and effective barrier designed to prevent pedestrians from circumventing traffic barrier access control systems. Its tough, all-weather aluminium construction makes it suitable for coastal and inland applications.

The robust materials and clever industrial design ensure that your **TRAPEX** will perform day in and day out, relentlessly, throughout its service life.

MAIN FEATURES

- **Enhanced security:** The clever link-arm assembly attached to the traffic barrier operator prevents the **TRAPEX** from being pushed aside

- The obstructive vertical poles extend past the barrier pole to create a formidable hurdle, helping to prevent would-be intruders from climbing over the barrier pole

- **Easy to install:** The simple, yet effective design of the **TRAPEX** allows you to pop-rivet the **TRAPEX** modules into place onto the barrier pole, which in turn lets the **TRAPEX** swivel freely and ensures extremely easy vertical alignment of the upright poles
  The modular construction allows for the **TRAPEX** to be installed by a single technician, providing for a hassle-free installation and saving you time and money. The only thing easier than installing it, is watching it work trouble-free year upon year

- **All-weather construction:** The powder-coated aluminium materials used to construct the **TRAPEX** allow you to install it just about anywhere

- **Intelligent design: TRAPEX** modules are available in 1.5 metre sections, making each module easy to transport and even easier to install the length that you need
  Modules can be assembled in 1.5, 3 and 4.5 metre lengths. The all-terrain foot assembly and link arm carry the weight of the **TRAPEX**, resulting in superior reliability and reduced maintenance

- **It's all in the box: TRAPEX** modules are semi-assembled. They come in 1.5 metre modules and include a Mounting Kit consisting of the steering arm assembly, foot assembly and all of the fasteners, spacers and end-caps you may require for a quick and easy installation

TECHNICAL SPECIFICATIONS

Existing installation

Boom pole length	Requirement
3 metres	The counterbalance spring in the 3m **SECTOR II** barrier must be upgraded to that of a 4.5m unit - The running speed of the **SECTOR II** operator must be reduced to correspond to that of a 4.5m barrier (Raise/Lower time must be changed from 1.2 to 3 seconds)
4.5 metres	The counterbalance spring in the 4.5m **SECTOR II** barrier must be upgraded to that of a 6m unit -
6 metres	It is not possible to fit the **TRAPEX** to a 6m **SECTOR II** barrier

New installation

Boom pole length	Requirement
3 metres	A 4.5m **SECTOR II** barrier must be ordered for this application, along with a 3m boom pole and 2 x 1.5m modules of the **TRAPEX** barrier fence
4.5 metres	A 6m **SECTOR II** barrier must be ordered for this application, along with a 4.5m boom pole and 3 x 1.5m modules of the **TRAPEX** barrier fence
6 metres	It is not possible to fit the **TRAPEX** to a 6m **SECTOR II** barrier

Dimensions and materials

Modular sections length	1.5m, pre-assembled
Vertical members	6 per 1.5m length with 250mm spacing
Vertical member length below barrier boom pole	692mm
TRAPEX fence members	19mm aluminium round tube
Weight	1.3kg/m
	1.5m Module weighs 2kg
Aluminium flatbar section	25mm x 25mm
Rivets used to fit the aluminium flatbar	5mm
Packaging weight	
Connectors kit	700g
Trapex sections	3kg/1.5m
Packaging dimensions	
Connectors kit	Length: 10mm x Width: 10mm x Height: 677mm
Trapex sections	Length: 100mm x Width: 100mm x Height: 2220mm
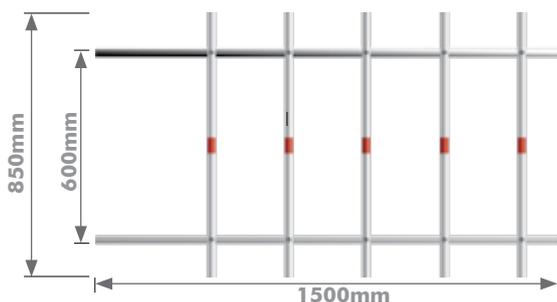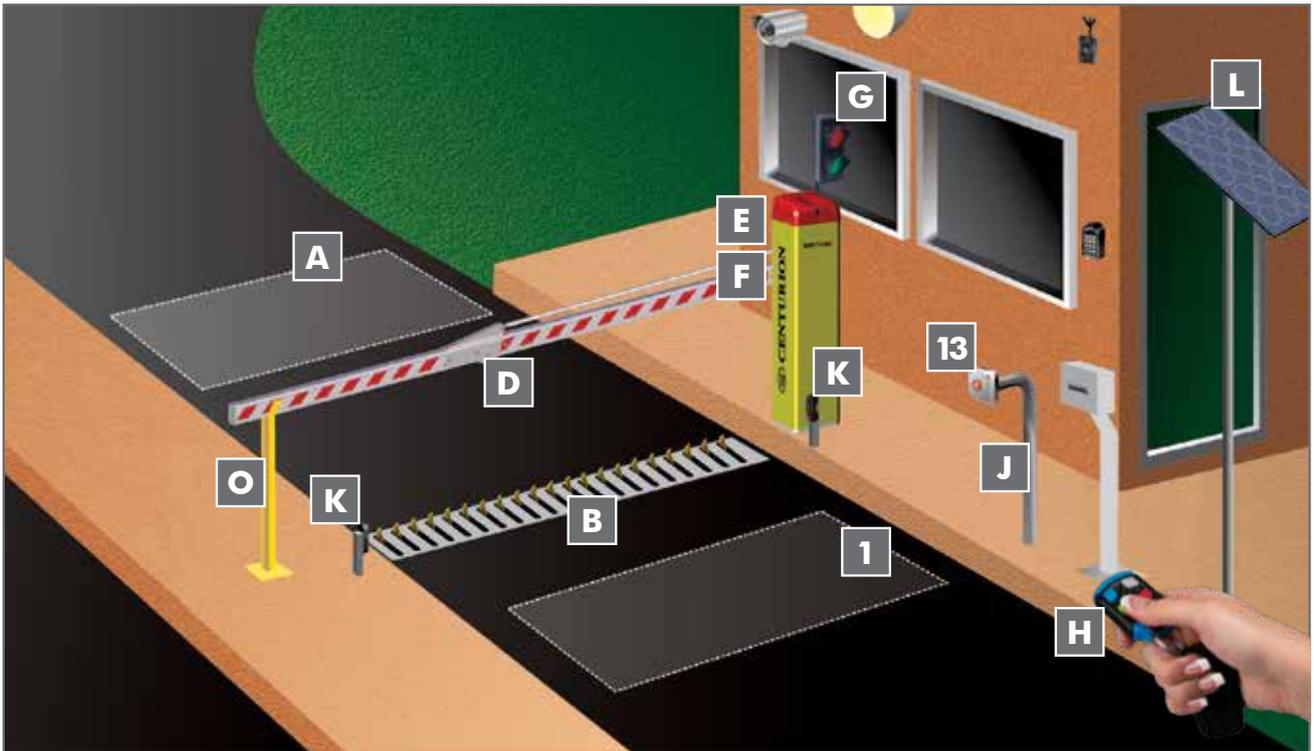
TRAFFIC BARRIER ACCESSORIES

1

A

FLUX 12-24V DC

Required to enable the free-exit fanctionality or the closing/safety loop facility - ground loop to be fitted

B

CLAWS

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

C

TRAPEX

A traffic barrier pedestrian fence that stops people from circumventing the SECTOR II access control point (not shown in diagram)

D

JACK-KNIFE ASSEMBLY

Accommodates applications with limited headroom

E

RECTANGULAR COUPLING

Providing a secure and reliable means of joining the rectangular boom pole to the SECTOR II.

F

RECTANGULAR BREAKAWAY COUPLING

Pole hinges away from barrier if accidentally knocked reducing the chance of it being damaged (not shown in diagram)

G

MIDI TRAFFIC LIGHT

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

H

CENTURION TRANSMITTERS

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

I

CENTURION TRANSMITTERS

Back up all the transmitters and operating details set up in the controller.

J

GOOSENECK

Steel pole for mounting intercom gate station or access control reader

K

CENTURION INFRARED BEAMS

Always recommended on any gate automation installation

L

SOLAR SUPPLY

Alternative means of powering the system - consult your CENTURION dealer

M

MANUAL PUSHBUTTON

Industrially-rated switch, typically for a guard to manually activate the barrier

N

RECTANGULAR BOOM POLE JOINER

Easily extend a boom pole in applications where the roadway is particularly wide and requires a boom that covers the entire width of the roadway (not shown in diagram)

O

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.
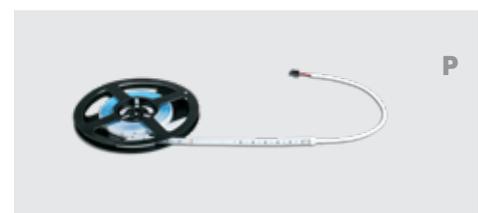
P

LED KIT

A simple and effective accessory for traffic barriers, featuring an LED strip that can be easily affixed to a rectangular boom pole. When integrated with the barrier logic, the LED Kit provides a clear indication to drivers when it is safe to proceed (not shown in diagram)

TRAFFIC BARRIER AND ACCESSORIES KITS

SECTOR II BARRIER KIT	1

Product Code: **Dependent on boom pole length, corrosion protection level and FLUX inclusion**

- **1 x SECTOR II barrier including**:
  - 1 x 7Ah battery **D**
  - 1 x Controller **A**
  - 1 x FLUX 11 **H**
  - 1 x FLUX SA **I**
  - 1 x Counterbalance Spring **E**
  - 1 x 2A Switch Mode charger **B**
- 1 x Boom Pole 3m / 4.5m / 6m **C**

CENTINEL MANUAL BARRIER KIT	2

Product Code: **Dependent on boom pole length and corrosion protection level**

- **1 x CENTINEL barrier**
- 1 x Boom Pole 3m / 4.5m / 6m **C**
- 1 x Counterbalance Spring **E**

CLAWS INDEPENDENT DRIVE FLUSH-MOUNT KIT	3

Product Code: SPIKEDFKIT_S2

- **1 x Independent Flush-mount drive mechanism.**
- 1 x Controller **A**
- Flush-mount Spike Modules (Available in 1m and 1.5m lengths) **F**

CLAWS INDEPENDENT DRIVE SURFACE-MOUNT KIT	3

Product Code: SPIKEDSKIT_S2

- **1 x Independent Flush-mount drive mechanism.**
- 1 x Controller **A**
- Surface-mount Spike Modules (Available in 1m and 1.5m lengths) **G**

CLAWS DIRECT DRIVE FLUSH-MOUNT KIT	3

Product Code: SPIKEDF1KIT_S2

- **1 x Direct Drive Flush-mount mechanism**
- 1 x Flush-mount Spike Modules **F**

CLAWS DIRECT DRIVE SURFACE-MOUNT KIT	3

Product Code: SPIKEDS   1KIT_S2

- **1 x Direct Drive Flush-mount mechanism**
- 1 x Surface-mount Spike Modules **G**

1   SECTOR II BARRIER

2   CENTINEL MANUAL BARRIER

3   CLAWS SURFACE- AND FLUSH-MOUNT SPIKES

A

SECTOR controller

B

2A Switch Mode charger

C

3m/4.5m/6m boom pole

D

7Ah battery

E

CENTINEL counter-balance spring

F

Flush-mount CLAWS module 1m and 1.5m module

G

Surface-mount CLAWS module

H

FLUX 11 loop detector

I

FLUX SA loop detector

J

SECTOR II 24V battery kit