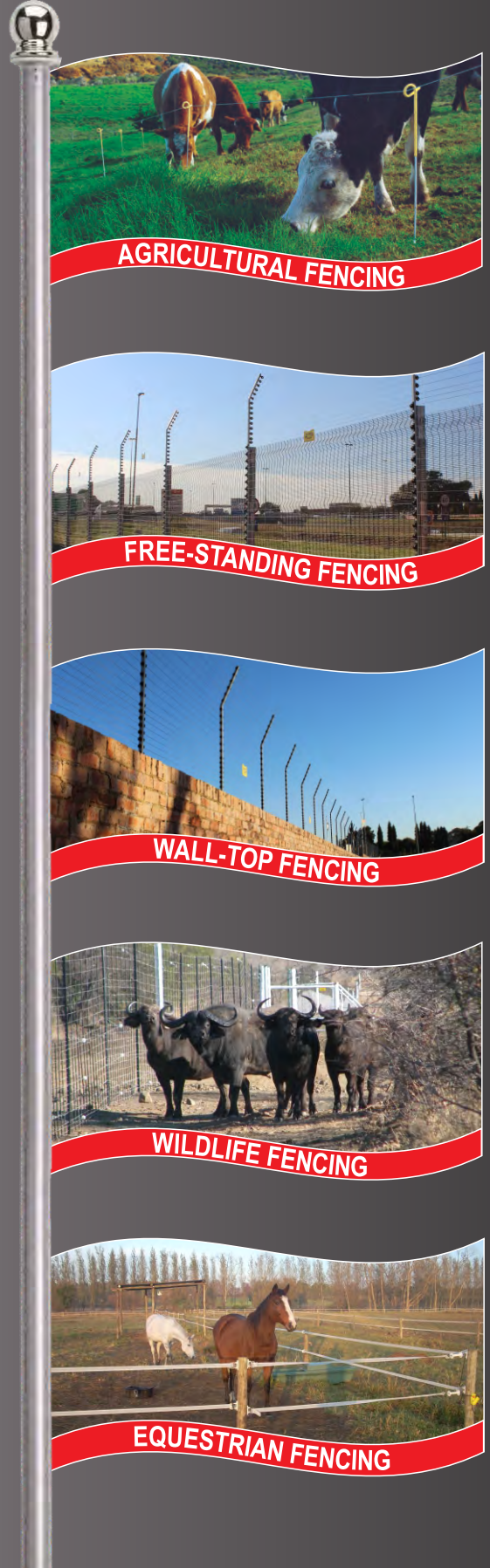


STAFIX™

SECURITY CENTRES



PRODUCT CATALOGUE
2022/2023

INTRODUCTION



Ndlovu Fencing (Pty) Ltd, trading as **STAFIX ELECTRIC FENCE AND SECURITY CENTRES**, is the Southern African distributor of the international STAFIX and JVA ranges of electric fence energizers. We are a South African owned company that is committed to providing our customer base with a choice of quality imported and locally-manufactured products that meet all the electric fencing needs of the Agricultural, Wildlife, and Perimeter Security markets.

We have a number of strategically positioned sales and service outlets throughout Southern Africa, each with its own in-house technical personnel, so that we can offer you fast and efficient after-sales repair service. Further, we have access to an extensive network of accredited Stafix installers should you require your fence to be installed for you.

Ndlovu Fencing offers its customers a unique blend of experience and youth. The founder, now CEO, introduced high-powered electric fencing to the Southern African market in the 70s. This combines with the youthful enthusiasm of our sales staff and their in-field practical experience in the erection and installation of electric fences, automatic gate motors, outdoor beams, security cameras and intercom systems. The net result is that we can provide you with all the necessary product, equipment, service and advice which you will require for the installation of your Agricultural, Wildlife and Security systems.

Ndlovu Fencing Provides:

- A **comprehensive range** of quality imported and locally produced electric fencing energizers, accessories and related perimeter security products
- Expert technical **advice**
- **Quality** service
- **Personalized designs** to solve your particular fencing challenges
- **In-house** repair facilities
- **A 2-year warranty** on Stafix and JVA Energizers
- 90-day **customer satisfaction** guarantee
- Country-wide distribution.

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Welcome to the Shocking World of Electric Fencing

There is nothing new about using electric fences to control animals. Farmers have been using electric fences for the past century to control their livestock and in recent decades monitored electric fences have become extremely popular in the urban environment for perimeter security purposes.

An apt description of an electric fence is a psychological fear barrier. It works on the principle of giving the animal or human making contact with it, a short, powerful, yet safe shock that is sufficiently memorable to discourage it from ever wanting to make contact with it again.

In this product catalogue we introduce you to the wide range of products we have to solve your animal control and security challenges. We thank you for taking the time to peruse our catalogue.

What are the Advantages of Electric Fencing?

- Low cost – as it is a psychological fear barrier, one can make use of lighter fencing materials
- Easily constructed – requires less labour to construct
- Longer life – due to reduced physical pressure
- Can be used to reinforce existing fences
- Low maintenance due to reduced pressure on the fence
- No injury or damage to livestock – i.e. damaged hides caused by barbed wire
- Will contain all classes of livestock
- Reduces waste due to better and more flexible pasture management
- Facilitates quick rotation grazing thereby reducing the build-up of parasites in pastures
- Makes back-fencing easy thereby preventing regrowth from being grazed too early
- When monitored, provides an extremely effective security barrier (domestic and stock theft)
- Demarcates, Deters, Deflects, Delays, Detects, Denies, Dependable



Stafix Price List

HOW TO CHOOSE AN ENERGIZER



Choosing an energizer can be quite a daunting task. Not only does one have a number of brands to choose from, but then within a specific brand, one is confronted with a number of models. Here are some questions you need to ask yourself when making your choice:

Does the energizer have a Certificate of Compliance (COC) and a Letter of Authority (LOA)

See legal requirements for an electric fence on page 59.

Is the fence being erected for security or animal control purposes?

For security purposes the JVA Z range of energizers is ideal. The JVA Security Energizers combine the energizer, monitor, battery and battery charger all in one housing.

For animal control, the Stafix or JVA Agricultural Ranges will meet your needs. Agricultural energizers do not have built in monitors and they provide only a deterrent shock. Should you wish to monitor your agricultural or wildlife fences, you will have to add an external monitor such as the ZM1, ZM20 or ZM50. (See pages 36-39.)

Is there mains power available at the site?

If no mains power is available, you will have to use a battery powered energizer, possibly with solar back-up.

Is the energizer for a short, temporary strip grazing fence? (200m – 500m) One generally uses portable battery powered energizers when strip grazing.

Is the energizer for use on longer, more permanent, farm or wildlife electric fences? For these one would use the more powerful energizers in the range.

What species of animal is to be controlled?

One can generally use smaller energizers for domesticated dairy cattle. Sheep, due to the insulation properties of their wool, generally require a bigger energizer. Horses, because they sweat and have salt on their hides, are more sensitive to electric fences, so smaller units suffice.

Will the fence be located in a dry or moist area?

In moist areas, the fence line will be subject to heavy competition from vegetation, so more powerful energizers are recommended.

What is the length of the fence line? The longer the fence line the more powerful the energizer you will require.

How many strands and what wiring configuration will be used on the fence line?

Whether series or parallel wired, this will have an effect on the resistance of the fence line (See page 3.)

What type and diameter wire will there be on the fence?

Different metals have different coefficients of resistance, e.g. a fence constructed using galvanized wire will have a lower resistance than a fence using stainless steel wire of the same diameter. The thicker the wire the lower the resistance.

Can the supplier provide back-up service?

What size energizer will meet my need?

A simple question that does not have a simple answer as there are many factors that will influence the efficiency of the fence, viz. the standard of construction, the soil type (dry or moist), wire type and diameter, competition expected from vegetation and quality of earthing, to mention but a few.

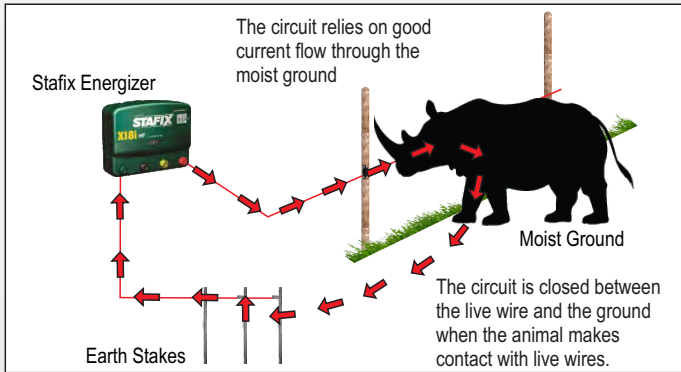
Manufacturers use a simple rule of thumb: 'One joule will energize one kilometre of wire.' This does help one compare the potential distance an energizer could power under ideal conditions. However, one must be careful when comparing joule ratings that one is comparing apples with apples as some manufacturers give their joule rating as *stored energy* and others as *output energy*. Stored energy is a misleadingly inflated figure. All Stafix and JVA energizer joule ratings are given in terms of Output Energy.

GETTING DOWN TO BASICS

Basic Circuits and Wiring Configurations for an Electric Fence

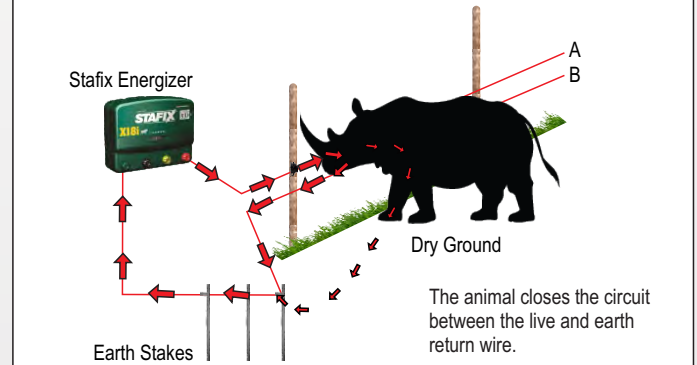
For an electric fence system to work effectively one has to understand and correctly apply certain basic principles. An electric fencing system comprises of three components: the energizer, the earthing system and the fence line itself. Link the three together and one has an electric fence. Close the circuit between the live wire/s and the ground or earth return wire/s and one has a circuit through which electrons (electricity) can flow thereby delivering the shock. If one, or more, of these three components is faulty, the whole system will be faulty.

Basic Circuit for Moist Conditions



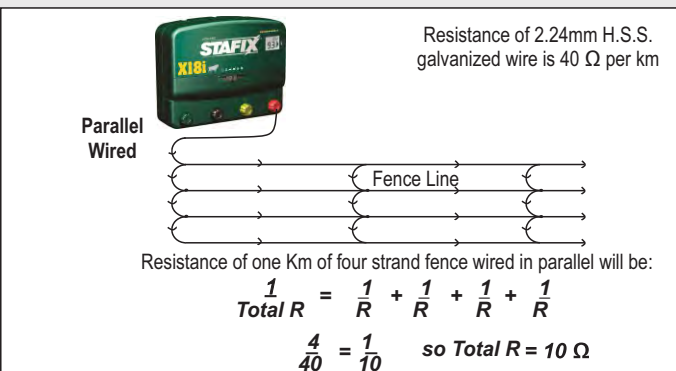
Moist ground is a good conductor of electricity, so in this circuit the electricity will flow from the Energizer, along the wire, through the animal closing the circuit, back through the ground to the earth electrodes and on up into the energizer thereby completing the circuit and delivering the shock.

Basic Circuit for Dry Land Conditions

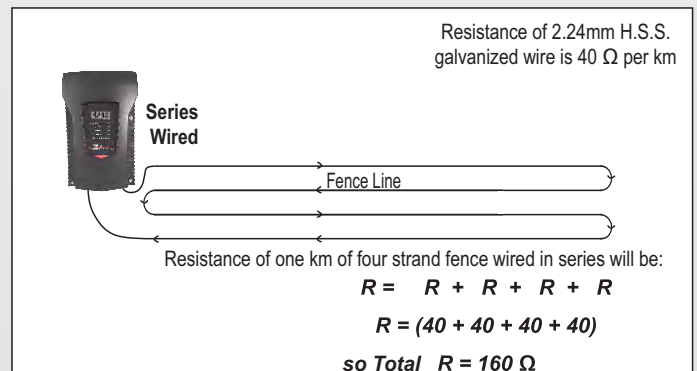


Dry ground is a poor conductor of electricity. In this circuit one adds an earth return wire (B) to the fence. The animal now closes the circuit between the live wire (A) and earth return wire (B) and so one does not rely on the poorly conductive dry ground to close the circuit.

Parallel vs Series Wired Circuits



Parallel wiring reduces the resistance of the fence line thereby enabling it to deliver a more powerful shock but it is less sensitive to shorting. This makes it more suitable for livestock control but is less suitable for security fences.



Series wiring results in one long wire thereby increasing the resistance of the fence. This circuit is generally used for security fencing. Short out any wire to earth and the monitor will trigger an alarm.

The Earthing System

We cannot stress enough the importance of good earthing. A poor earth system will greatly reduce the effectiveness of your electric fence.

Do's and Don'ts of Earthing

DO:

- Insert at least three 1,2m long earth stakes at the energizer
- Place the earth stakes 1,2m apart
- Connect the earth stakes together by using a single length of underground cable
- Keep earth stakes at least 2m away from any mains power
- In an urban area install additional earth stakes every 30m
- In rural areas install additional earth stakes every 100m.

DON'T:

- Connect more than one energizer to an earth stake
- Connect your energizer earth to ESKOM or TELKOM's earth stakes
- Allow the earth system to touch any part of a building
- Connect the earthing system to water pipes
- Insert earth stakes where they can be tripped over
- Use unlike metals e.g. Copper to Galvanized, as this will cause electrolysis.

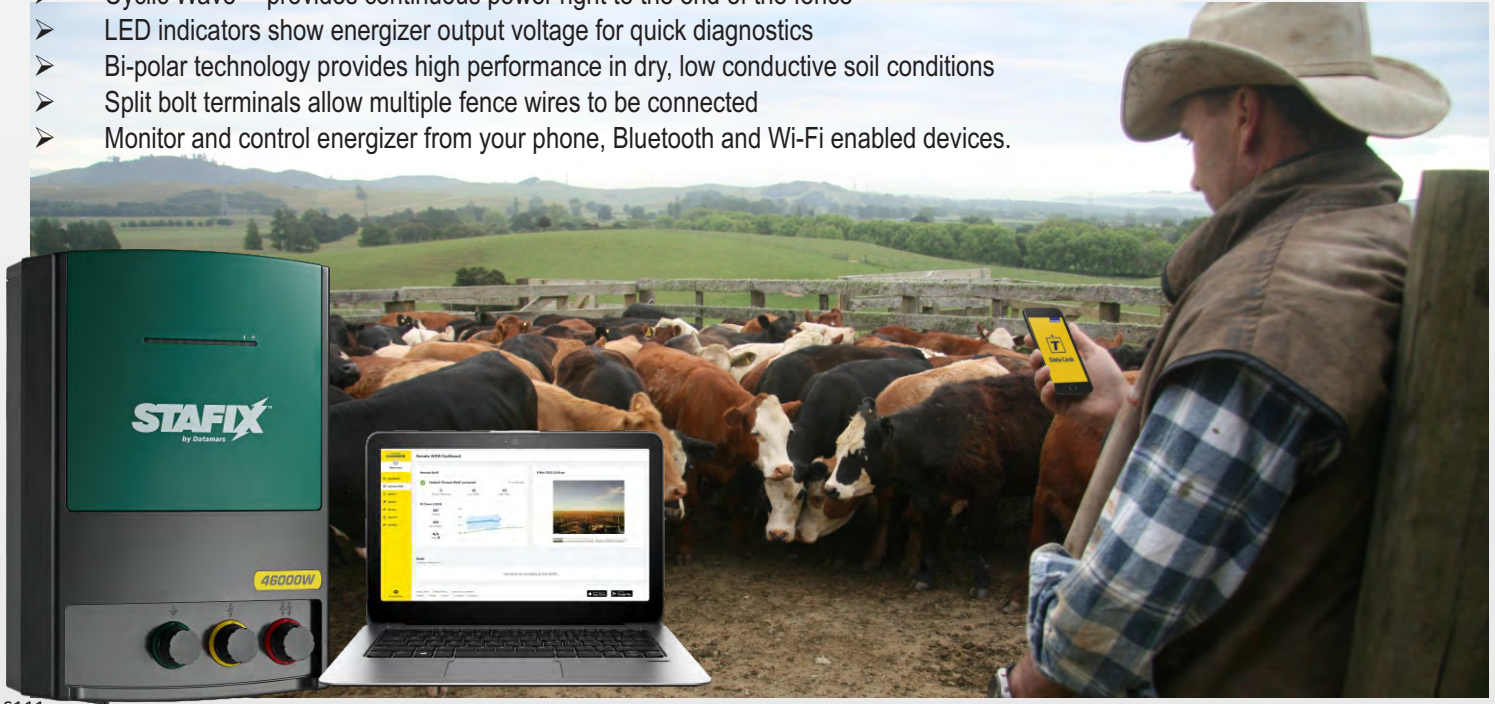
STAFIX AGRICULTURAL & GAME ENERGIZERS

Stafix M46 Energizer

The New Stafix 46000W Mains Energizer replaces the Stafix M36 in the Stafix Range. The Stafix 46000W is not only a great performing energizer 20% more powerful than the M36 it replaces, but also offers farmers an intuitive interface. With Bluetooth and Wi-Fi compatibility, the Datamars Livestock Farm App provides the ability to monitor and control the energizer from a phone.

Features:

- Cyclic Wave™ provides continuous power right to the end of the fence
- LED indicators show energizer output voltage for quick diagnostics
- Bi-polar technology provides high performance in dry, low conductive soil conditions
- Split bolt terminals allow multiple fence wires to be connected
- Monitor and control energizer from your phone, Bluetooth and Wi-Fi enabled devices.



S111

Stafix Cyclic Wave Energizer

Stafix energizers are the result of two decades of intense research and development as constant improvement and innovation is the company's philosophy. Stafix's team of highly qualified engineers are encouraged to push the boundaries of traditional design in order to produce something special for our customers.

The M63R is testament to this philosophy. Incorporating high power, remote on/off switching capability and patented new technologies, it is without equal when it comes to long fence capability.

This commitment to technological excellence is not confined to this flagship energizer alone. The same outstanding engineering and distinctive styling has been applied across the comprehensive range of energizers, all of which deliver quality and performance unique in their class.

Mains powered



S141

Stafix Cyclic Wave Energizer Specifications

Model	Stored Energy	Max Output Energy	Input Voltage	Open Circuit	500 Ohm Load	100 Ohm Load
M63R	98 Joules	63 Joules	220V	Up to 9,500V	Up to 9,000V	Up to 8,500V
M46	68 Joules	46 Joules	220V	Up to 9,500V	Up to 9,300V	Up to 8,900V
X18i	23 Joules	18 Joules	12V/220V	Up to 9,300V	Up to 8,800V	Up to 5,500V
X12i	16 Joules	12 Joules	12V/220V	Up to 9,200V	Up to 7,800V	Up to 4,900V
X6i	10 Joules	6 Joules	12V/220V	Up to 9,500V	Up to 6,700V	Up to 3,100V
X 3	4.2 Joules	3 Joules	12V/220V	Up to 11,400V	Up to 6,200V	Up to 2,300V
X 2	2.8 Joules	2 Joules	12V/220V	Up to 11,000V	Up to 5,900V	Up to 2,100V
X 1	1.5 Joules	1 Joules	12V/220V	Up to 9,850V	Up to 5,300V	Up to 1,850V

STAFIX AGRICULTURAL & GAME ENERGIZERS

Stafix X-Series 'Cross Over' Energizers

Stafix's cutting-edge development philosophy led to the innovative Stafix X1, X2, X3, X6i, X12i and X18i 'cross over' range of energizers. These multi-powered energizers can be either high-performance Mains Powered units or robust 12V Battery Energizers.

All-in-All it offers More Power and Greater Versatility at a Lower Price.



For more information on our Game Management Range visit our website for the full

PRACTICAL GUIDE TO GAME FENCING

All X-Series Energizers Have:

- Indicator lights which show output voltage and battery conditions
- Adjustable pulse speed and improved battery conservation
- Day/night sensors for superior livestock and predator control
- Easy mounting on a wall, fence post or fence wire
- Battery lead sets and fence lead sets
- Power adaptors for mains powered installations.

Intelligent X6i, X12i and X18i Features in Addition to the Above:

- Earth Monitoring allowing user to identify earth system problems
- Backlit LCD screen displays output voltage, battery voltage and earth voltage
- Remote ready
- Half voltage terminal enables bi-polar operation that ensures performance in exceptionally low conductive soil areas and allows farmers to reduce the fence voltage if required
- Cyclic Wave™ technology to give a cleaner more efficient pulse, resulting in more voltage at the far end of the fence line.



Style

The smooth, clean lines of Stafix Energizers make them easy to install and even easier to use. Multi-fit options on the rear and large front-mounted terminals are just what you need.

Safety

Stafix energizers are designed to meet stringent international and local safety standards for electric fence energizers. The units comply with the following standards: IEC SANS 60335-2-76 amendment 1 2000 SA, Australia, IEC for Europe and cULus for North America.

Strength

Intelligent design and robust construction from new super-tough plastics give years of trouble free service.

Low Interference

The Cyclic Wave™ technology produces minimum levels of electromagnetic interference, well within the international standard requirements. This can make a substantial difference to the amount of interference experienced on nearby telephone and radio communication lines.

JVA AGRICULTURAL & GAME ENERGIZERS

JVA Mains/Battery High Power LCD Energizers

The NEW MB8, MB12 and MB16 IP Energizers[®] have 8, 12 and 16 Joules output energy respectively and can now be controlled from anywhere in the world using your mobile phone App. The energizers have a LCD display to show fence voltage and Stored Joules. All these newly styled energizers include an audible warning if there is a serious fault on the fence and Auto-Sync[™] technology, all of which help keep your fences safe. These universal Mains/Battery powered energizers give you the added option of running on 12V should you not always have 240V available. Please note 12V units can be powered only from mains with a 12Vdc plug-in transformer.

JVA LCD Range



JVA LCD Energizer Range Features:

- Mains powered
- Battery powered
- Digital control
- Smooth Wave shape
- Power on demand
- LCD showing Kv and Stored Energy
- Ant and moisture protection
- UV stable enclosure
- Overload indication (Audible and Visible)
- Lightning protection
- Reverse battery protection
- Self-resetting fuse
- Solar capability
- Low battery indication
- Over discharge battery protection
- Battery life maximization
- Battery voltage measurement
- Power adaptor included
- Audible alarm
- Bi-Polar output
- 2-year warranty.

	MB 8	MB 12	MB 16
Stored Joules	11J	16J	22J
Energy Output	8J	12J	16J
Power Consumption at 12.5Vdc	0.9 A	1.25 A	1.6 A

JVA MB Mid-Range Battery and Mains LED Energizers

The MB1.5, MB3 and MB4.5 Electric Fence Energizers deliver between 1.5 and 4.5 Joules output energy per pulse. Their innovative design means you can have versatile portable power from a 12V battery when needed, or run it from 240Vac mains electricity where that is available. Optional JVA Solar Kits and external batteries are available.



JVA LED Energizer Range Features:

- LED Energizer and fence status indicator
- Large easy to use fence terminals
- O-Ring sealed case for ant and moisture protection
- Lightning protection
- Battery leads with large easy to connect clips
- Front panel On/Off switch
- Easy to mount on wall with 2 screws
- Approved to Safety Standards
- UV stable enclosure
- 2-year warranty.

	MB 1.5	MB 3	MB 4.5
Stored Joules	2J	4J	6J
Energy Output	1.5J	3J	4.5J
Power Consumption at 12.5Vdc	0.15A	0.3A	0.5A



JVA AGRICULTURAL & GAME ENERGIZERS



JVA Solar Energizers

JVA offers a range of Solar Powered, Electric Fence Energizers which are ready to operate straight out of the box! A reliable built-in rechargeable battery and integrated solar panel means JVA Solar Energizers are totally portable, with no need for extra batteries and hardware. Just slide the energizer onto a support post, attach to the fence and switch it on.



For more information
on our Agricultural Range
visit our website for the full
JVA AGRICULTURAL BROCHURE



JVA Solar Energizer Features:

- Quality crystalline solar panel and internal battery
- Front panel On/Off switch and LED pulse indicator
- Low Battery indication
- Large easy to use fence terminals
- Easy mounting on top of a Y-standard or U-bolt to a pole
- Sealed for ant and moisture protection
- On the SV5 and SV10 a LCD shows fence voltage, stored energy and battery voltage
- Auto-Sync technology for safer fences
- Internal battery included.

	SV2	SV5	SV10
Stored Joules	145mJ	650mJ	1.1J
Energy Output	120mJ	500mJ	0.8J

JVA Portable Energizers

Perfect for temporary electric fences, strip grazing, horse riding events, holding paddocks or just keeping pets out the garden, these portable units are easy to use yet pack a kick big enough to hold your animals where you want them.

These are the safest of electric fence energizers with output energy limited to a fraction of the maximum allowed by law. JVA Energizers have patented DC/DC inverter technology which minimizes battery usage while increasing reliability.



JVA Portable Energizer Features:

- Mains or Battery powered
- Digital control
- Compact design
- Sealed for ant and moisture protection
- UV stable enclosure
- Basic lightning protection
- Power surge protection
- Reverse battery protection
- Self resetting fuse
- Solar capability
- Battery life maximization
- Internal battery included.

JVA Pet100 Energizer Features:

- Mains or Battery powered
- Compact design
- Sealed for ant and moisture protection
- UV stable enclosure
- Basic lightning protection
- Power surge protection
- Reverse battery protection
- Self resetting fuse
- Solar capability
- Battery life maximization.



JVAPET

	RSG1	PET100
Stored Joules	145mJ	130mJ
Energy Output	120mJ	110mJ

2-Year Warranty

All JVA Energizers carries a 2-year warranty against faulty workmanship and components but excludes Acts of Nature (i.e. lightning and flood damage) or malicious damage to the unit or faulty application.

JVA JUMBO ENERGIZER

The JMB series is the most powerful and feature rich electric fence energizer JVA has manufactured to date. This continues JVA's push for technical superiority in the area of Monitored Electric Fencing and IP Energizers®. While the JMB energizers were specifically designed for game parks and exclusion fencing, they are also well suited to any large permanent electric fencing application. The JMB series generates up to a remarkable 46J of stored energy, currently the world's most powerful battery powered energizer.

A monitored electric fence reduces maintenance by reporting whenever there is a fault and by allowing you to check the fence from wherever you are using the Internet.

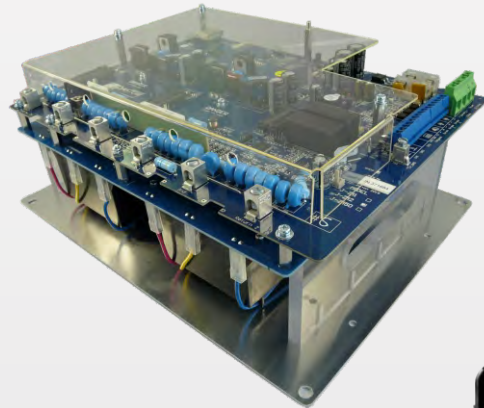
The JMB series introduces the JVA Virtual Keypad. This allows you to monitor, control and program the energizer from your Wi-Fi enabled smart device (cell phone, tablet or laptop). The JMBs can also be controlled and monitored with a wired JVA 4-Line Keypad supplied with the unit.

JVA Jumbo Energizer Features:

- Combined electric fence energizer and monitor
- Power or Loop Monitor depending on model
- Virtual Keypad via your Wi-Fi enabled device (phone, tablet or laptop)
- Distant Fault Detection (DFD™) technology
- High powered (up to 46J stored)
- Mains or 12V battery powered (mains via separate 24V plug pack)
- Lightning protection on all fence connections
- No mains inverter required to run on solar and battery
- Power on demand, i.e. it generates the power only required for the fence conditions
- Able to be controlled and/or monitored through multiple options
- Built-in 1Amp backup battery charger
- 1 Siren and 2 Strobe 12V outputs for stand-alone security installations (switched 12V DC)
- On/Off switch
- Programmable relays.



For more information on our Jumbo Range visit our website for the full JVA JUMBO RANGE BROCHURE



24/7 Fence Information available via GSM or Wi-Fi



Virtual Keypad Programming via Smart Device when in proximity to the Jumbo



JVA JUMBO ENERGIZER

JMB ZM50

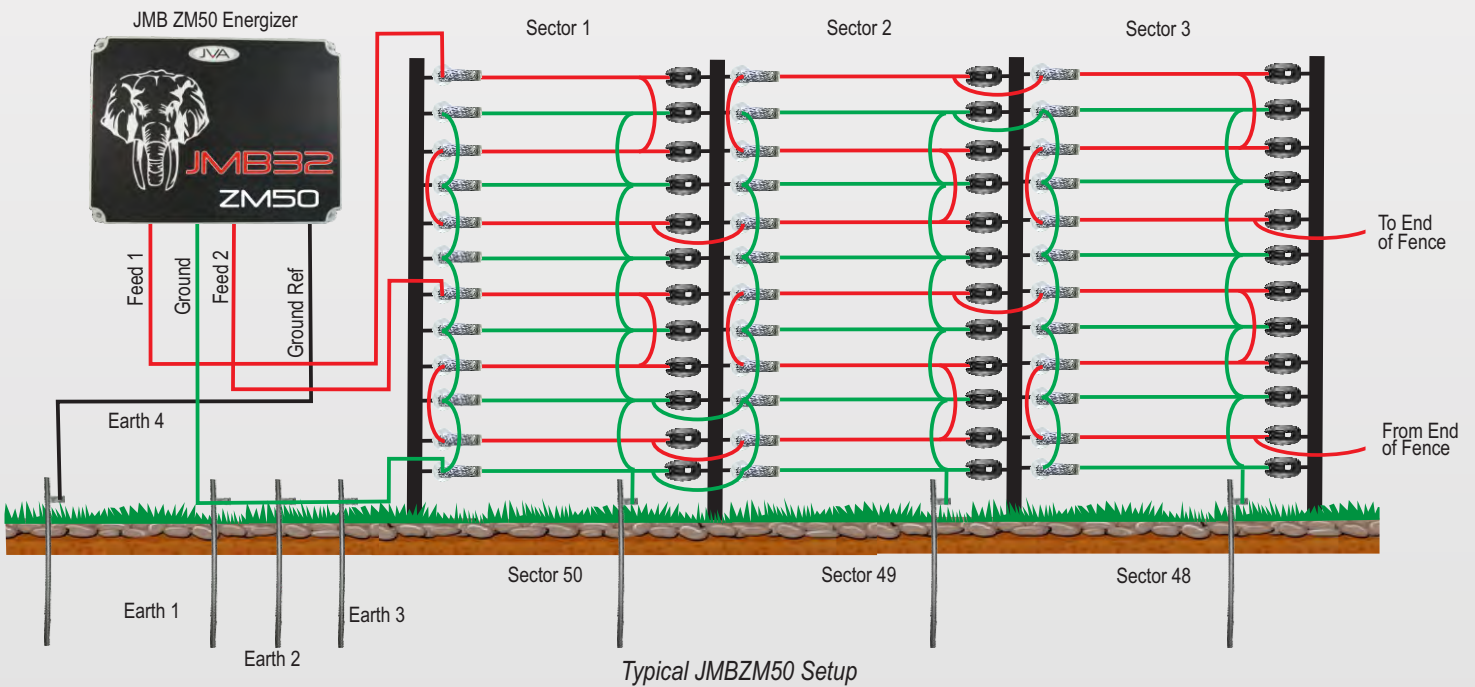
The JMB ZM50 contains our patented Loop Monitor with Distant Fault Detection (DFD™). The loop, or loops of live wires may run down and back on the same fence or all the way around a property. While previous fence loop monitors suffered from a range limitation of approximately 10km of fence or 30km of wire, DFD™ has greatly increased this range.

Features:

- Can split a single fence in up to 50 sectors
- Can report the position of a fault as a percentage of overall fence length
- Short sectors can be defined accurately using JVA sector dividers
- ELV (Extra-low Voltage) open circuit detection.



Live: Series Wired – Ground: Parallel Wired



JVA Jumbo Range Specifications

Model	Stored Energy	Output Energy	Zones	Sectors	Input Voltage	Power Peak
JMB32ZM1	46	32	1	0	12/24V	3.6A at 13.5V DC
JMB32ZM2	2x23	2x16	2	0	12/24V	3.6A at 13.5V DC
JMB32ZM50	46	32	1	Up to 50	12/24V	3.6A at 13.5V DC
JMB25ZM1	36	25	1	0	12/24V	2.8A at 13.5V DC
JMB25ZM2	2x18	2x12.5	2	0	12/24V	2.8A at 13.5V DC
JMB25ZM50	36	25	1	Up to 50	12/24V	2.8A at 13.5V DC
JMB16ZM2	23	2x8	2	0	12/24V	2.5A at 13.5V DC
JMB8ZM1	11.5	8	1	0	12/24V	1.8A at 13.5V DC
JMB10ZM2	14	2x5	2	0	12/24V	2.0A at 13.5V DC
JMB8ZM50	11.5	8	1	Up to 50	12/24V	1.8A at 13.5V DC

Solar Recommendation 32 Joule Units	Area Table 6 Hours Sun	350W	200Ah Battery
Solar Recommendation 25 Joule Units	Area Table 6 Hours Sun	300W	200Ah Battery
Solar Recommendation 8 Joule Units	Area Table 6 Hours Sun	150W	100Ah Battery

STAFIX PORTABLE ENERGIZERS

Stafix AN90

The AN90 is the most powerful and versatile strip grazing unit available in its class, powering up to twice the amount of fence as most competing strip grazers. With the option of 4 x 'D' size torch batteries or an external 12V battery, the AN90 provides flexibility for all farm conditions.

- 0.12J maximum output energy
- Up to 7,500V output voltage
- Two pulse speed options
- Pulse indicator light
- Clips directly onto galvanized wire or poliwire, tape or braid for strip grazing
- Available as a single unit or complete with mounting stand
- Stand doubles as an earth stake



JVA Pet Kit

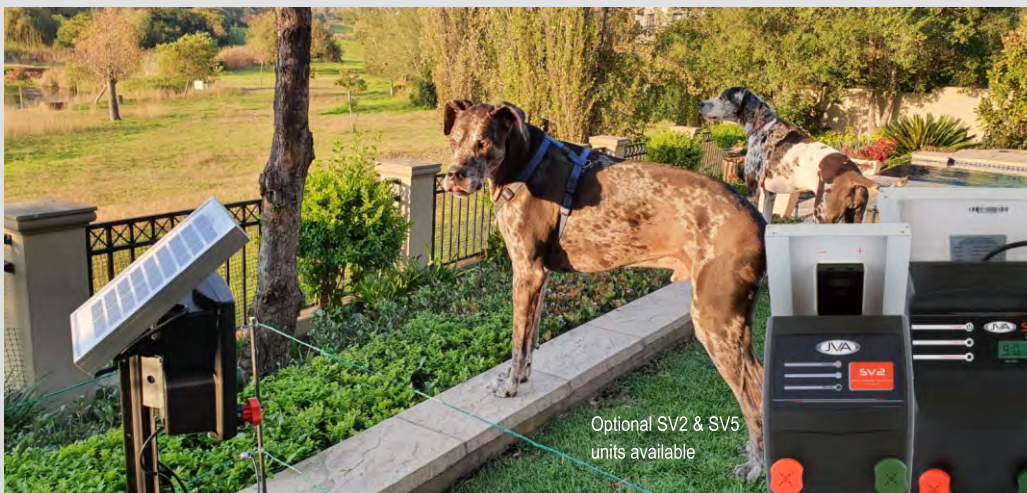
The JVA Pet kit has the option of being supplied with the JVA Pet 100 Energizer or the SV2 Solar Energizer. The Pet100 energizer has the option of being mains or battery powered. The SV2 gives you off the grid solar charging and the versatility of having your energizer positioned anywhere on the fence line and no need for a 220V power source. For larger dogs and longer distances, pet electric fence kits can be made up by using strip grazing accessories and energizers.

JVA Pet Kit includes:

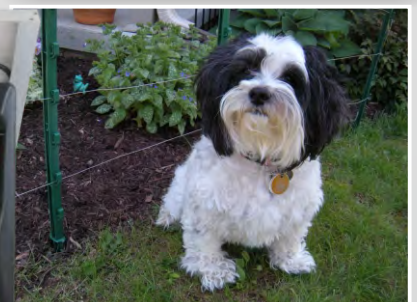
- 1 x Energizer
- 8 x Fibreglass Poles (8 x 850mm)
- 1 x Fence Wire (200m)
- 1 x Earth Stake
- 1 x Warning Sign
- 24 x Springs
- 6 x 10mm Ferrules
- 10m HT Soft Cable.



Sufficient for 100m of 2-strand fence JVA PET100 complies with SANS 60335 – 76 standards



Optional SV2 & SV5 units available



PET CONTROL

Anti-Bark Dog Collars

These Anti-Bark collars create a safe, slight discomfort to a pet that is causing disturbance by barking continuously and unnecessarily. The first barks receive an audible 'beep' and if not heeded, a static stimulus deters the barking.

The collars are available in two models:

Anti-Bark Collar — Econo

- Economical battery powered deterrent collar
- Well priced one-size-fits-all design
- Non-waterproof
- Training modes: beeper and static stimulus (unit beeps with first 3 barks and then stimulates only on the fourth, giving the dog an audible warning beep before changing to static stimulus mode)
- 7 intensity levels for a wide variety of dog dispositions
- 7 levels of sensitivity (to adjust for background noise and growling)
- Easy to test the functionality and sensitivity by simply blowing on the unit and hearing a beep
- Supplied with light testing tool to check the stimulus



NWT758

Anti-Bark Collar

- Rechargeable
- Waterproof
- Vibration Mode (V) warning prior to the stimulation
- 7 intensity levels (1-7) for a wide variety of dog dispositions (to adjust for background noise and growling)
- Multi-Colour LED Battery Life Indicator
- Supplied with Light Testing Tool to check the shock
- CE/ROHS approved



NWT743

Warning: Do not use the product if your dog is prone to aggressive behavior or under 4kgs in weight.



NTP16

Extra Collar
Available (NTP16C)

Underground Control Dog and Cat Fencing System

- The closer your dog gets to the buried boundary wire, the more intense the shock will become.
- A warning sound will be issued first, then a shock stimulus after 4–10 seconds. If your dog continues to move closer to the boundary, the shock stimulus will intensify.
- The system allows you to control precisely the width of the signal field.
- Should your buried wire ever break, a loud sonic alarm will sound accompanied by a flashing light.
- The faster your dog is moving, the quicker the higher level of shock intensity is increased.
- The transmitter is protected from power surges caused by lightning strikes.
- There is no limit to the number of collars it can control. Add as many collars as you like to contain as many animals as you have.
- It has a range of up to 5000 square metres (over 1.2 acre).



For more information
on our Pet Management Range
visit our website for the full
JVA PET MANAGEMENT BROCHURE





STRIP GRAZING



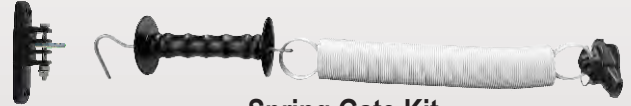
Ultra Heavy Duty JVA Geared Value Reels

The heavy duty galvanized steel frame structure with glass fibre reinforced nylon bobbin makes this reel tough for the hardest conditions. Available in 1:3 geared ratio. (One rotation of the handle gives three rotations of the spool.)



JVA Volt Meter Fault Finder

The JVA Fault Finder is a 3-in-1 tool designed specifically for the rapid location of faults on an electric fence line



Spring Gate Kit



Tape Gate Kit



Bungy Cord Gate Kit

- Consists of multi-stranded latex core and UV resistant sheath, for easy, quick assembly of electric gates
- 4 stainless steel wires for maximum conductivity
- Wires cross over ten times per centimetre for maximum shock exposure
- Standard length 3.5 – 7m



CODE	DESCRIPTION	HEIGHT
E103 - 1.2m	Earth Stake Galvanized Reinforced Bar	1.2m
S903	Galvanized Reel Stand with chain can support 1 – 3 reels	1.2m / 1.5m
DK15	Ridgeback Dropper	1.5m
S922	Pigtail Dropper — 6mm galv spring steel with strong crimp foot	1.2m / 1.5m
Y24JVA/Y3JVA	JVA Y-Standard	2.4m / 3m
H101	HD Tread-In — sturdy stirrup foot design with fittings for tape and Poliwire	1.5m
S921	Tread-In with fittings for Poliwire, Polirope and Politape	1.2m
S907	Galvanized Camp Temporary Corner Post	1.2m / 1.5m
EM109200	Euronet Electric Fence Netting for sheep and goats, 50m rolls — ideal tool to overnight your flock to keep them safe from jackal	0.9m / 1.2m

STRIP GRAZING



Poliwire

An economic choice for temporary fencing, featuring stainless steel conductors and UV stabilized yarns; available in white or orange in 200m or 500m rolls



S9110

S912W

Ultra Heavy Duty Value Reel

The heavy duty galvanized steel frame structure with glass fibre reinforced nylon bobbin makes this reel tough for the hardest conditions 1:1 ratio



S912



S792

JVA Ezi-Hook Handle

- Use as a live hook OR an insulated hook in temporary electric fencing OR as a gate break

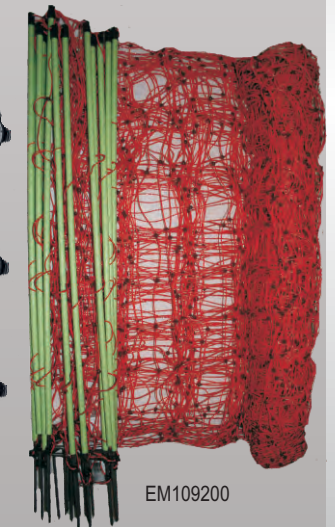
- Designed to wind easily back through pigtails

Lockable Cut-Out Switch

A handy fence tool allowing the section of fence to be switched off for maintenance or fault finding



S712



EM109200

Euronet Electric Fence Netting for Sheep

- Ideal tool to safely overnight your flock, keeping them safe from jackal and improving pasture management
- Euronet is available in 50m rolls and 900mm or 1060mm heights
- The posts are very stable and have galvanized double-spiked tread-ins on the bottom



S903

Value Reel and Stand

- The galvanized value reel holder can be attached to a stand
- Ideal for temporary and movable horse camps
- The reel holds 100m/200m of 40mm/12mm tape or 500m of poliwire
- The reel has a ratchet for superior tension control



S219

6mm and 8mm Poliropo

(6mm/ 8mm wide/200m rolls)
Poliropo is also suitable for second stranding a 40mm tape permanent fence or making electric gates



H111

Horse Post Insulator
Insulator designed to fit over all common steel Y-posts



UGS

Spring Gates

Available in Galvanized Steel or Powder-Coated White. Used for 3,5m cattle or horse gates



DK12

DK15

DK18

Ridgeback Dropper

The Ridgeback Dropper is a light, vertical stave in a fence, used to separate the wires of a wire fence.



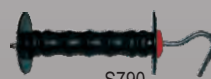
N688

Screw-On Insulator

Can be attached at any point along a dropper to support an electric wire

Heavy Duty Compression Gate Break Handle

- Strong robust body
- Positive non-slip grip
- High tensile, heavy-duty spring compresses under tension, preventing over stretching
- Fully galvanized



S790





STRIP GRAZING



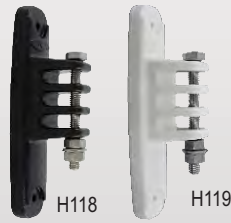
Centre Pivot Gate

Allows free movement of centre pivot wheels through electrified fence camps



1- and 3-Way Activator Plate

Used in conjunction with end/corner strain and gate handle, to complete the current when the gate handle is connected



JVA Corner Strain Insulator

- This robust, unique, versatile, easy-to-install, multi-faceted strainer/corner insulator can be nailed or stapled to a wooden strainer post or pop-riveted onto a metal strainer post
- It has 3-way straining capabilities and is ideal for corners and angles



Intermediate Corner Insulator

This robust, unique, versatile, easy-to-install corner insulator can be nailed or stapled to a wooden strainer post or pop-riveted onto a metal strainer post



12mm or 40mm Tape Buckle

Used to attach tape to strainer insulator and in electric tape gates



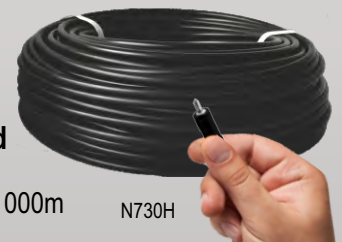
Combi Tensioner

Hot-dipped galvanized



Maxi Tensioner

Strong Nylon quad securing tensioner



HT Cable – Hard

Available in: 50m
100m, 200m and 1000m



Y-Standard

UV Stabilized Plastic



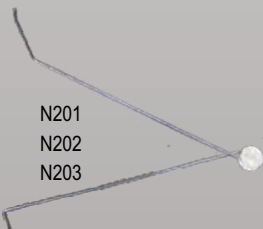
Nail-On

UV Stabilized Plastic



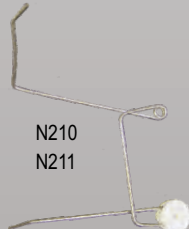
Plastic Jumbo Strain

UV Stabilized Plastic



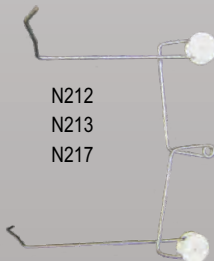
Single Offset

Available in: 225mm,
350mm and 450mm



Double Offset

Available in:
225mm and 350mm



Triple Offset

Available in: 225mm
and 350mm straight or
150mm/225mm angled



12mm or 40mm Politape

(12mm wide/200m rolls)
Ideal for temporary subdivision of camps or for the second strand on a permanent 40mm tape fence



Braided Wire

High tensile, low resistance: available in 1.2mm, 1.5mm and 2mm Galvanized, Stainless Steel or Aluminium
1.2mm - 135m/kg

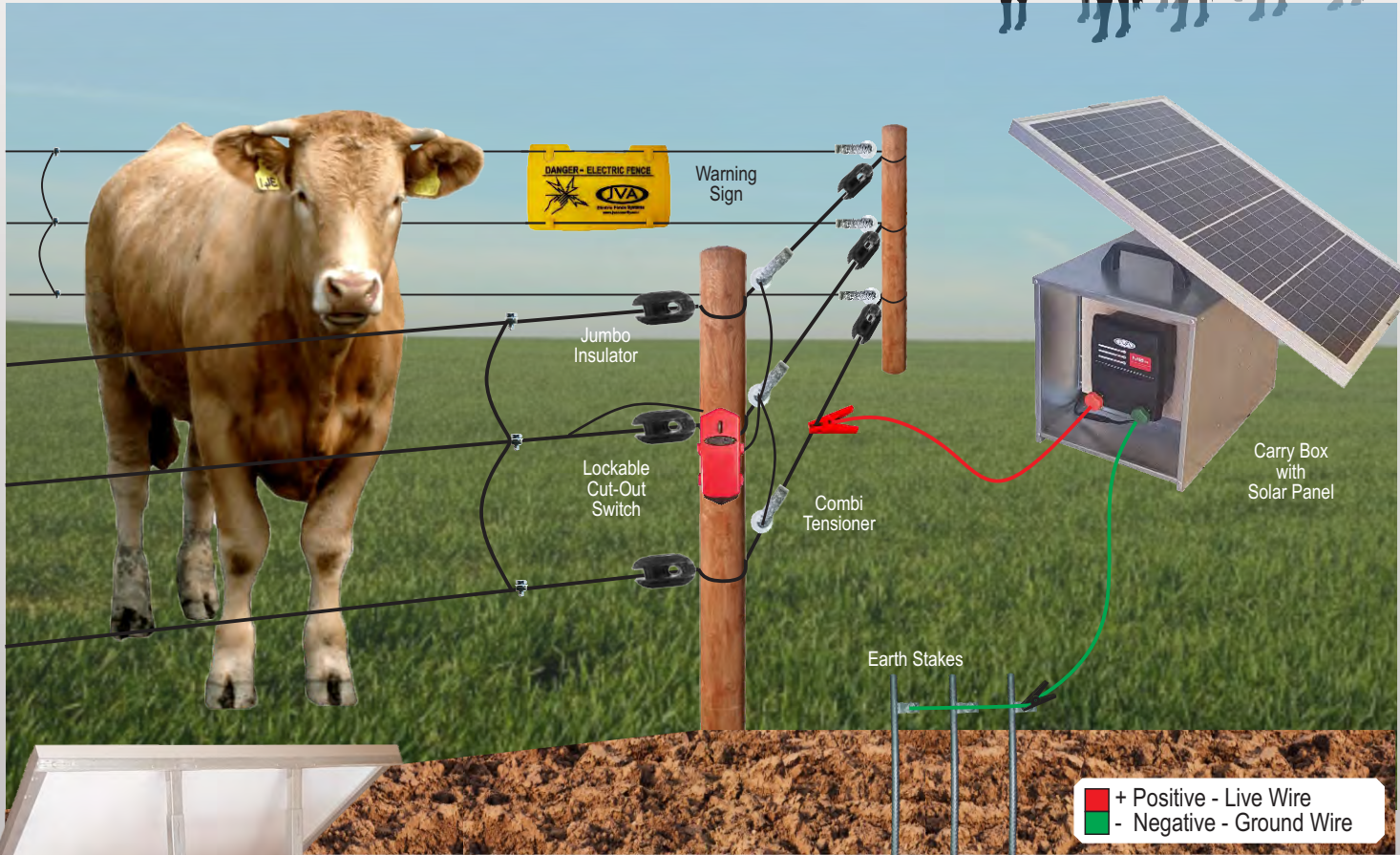


High Strain Steel Wire

Full range available in Light or Double Galvanized Steel
2.24mm 50kg 1650m
2.00mm 50kg 2000m

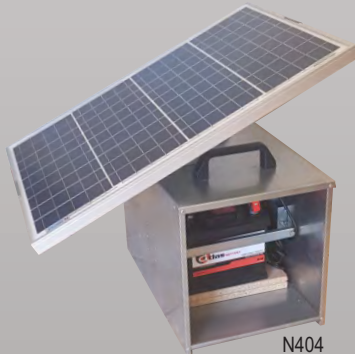


STRIP GRAZING



Shock Box with Top Solar Bracket

A large permanent 'live' Energizer Station with space for an MBXL Energizer and up to 2 x 100 AH batteries



Carry Box with Adjustable Bracket for Solar Panel

The Galvanized Carry Box (N406) with the option of adjustable solar mounting (N404), offers a quick and easy setup in the field for temporary fences. The MB Energizer and Battery is protected from the elements up to 50 Amp Hours but still easy to access and transport.

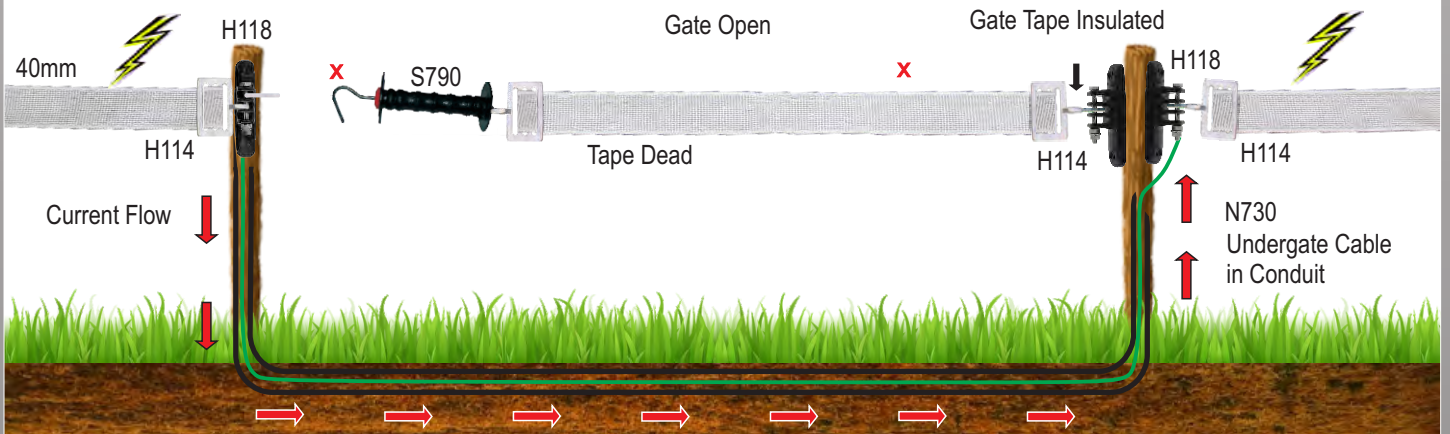


JCOX032

Lead Joiner

Ready made 1m Crocodile Lead Sets for easy connections.

Tape Gate



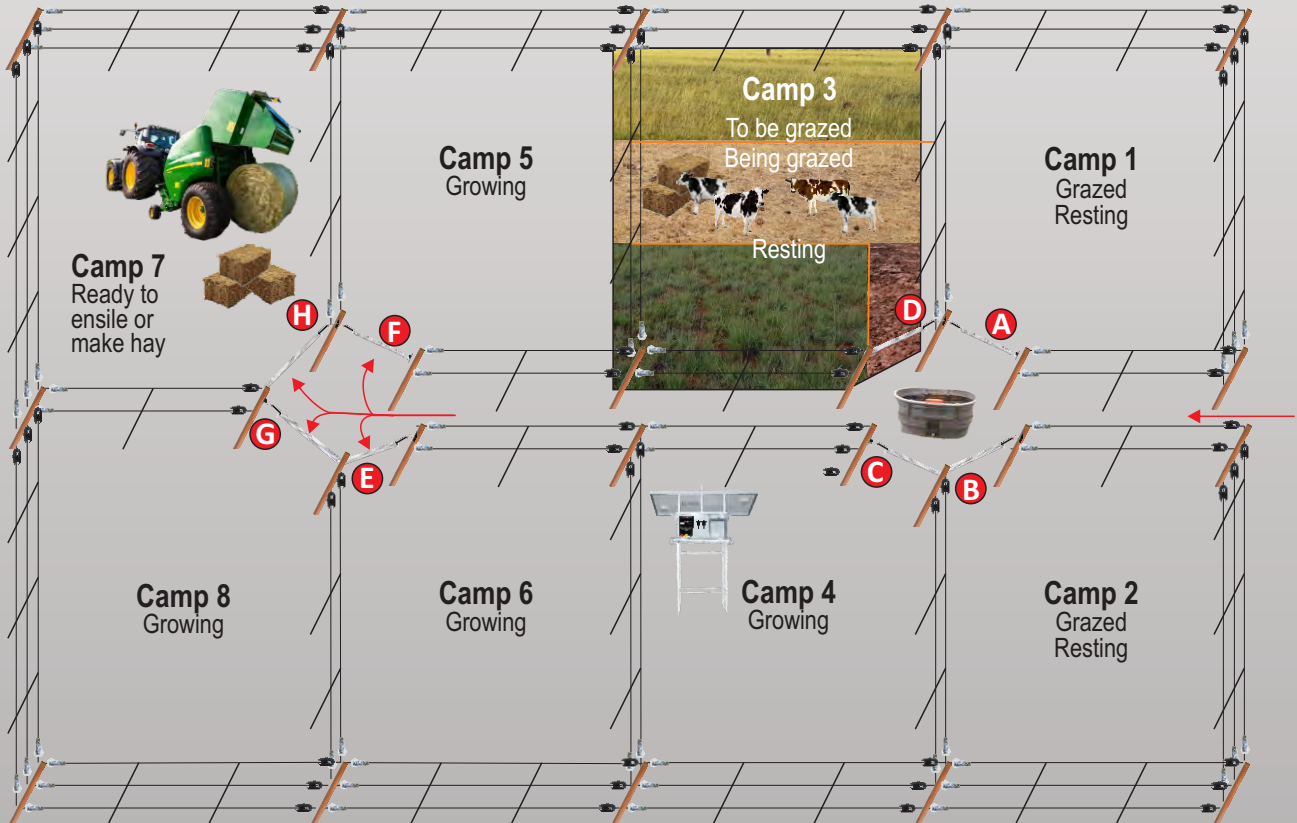


CONTROLLED STRIP GRAZING LAYOUT

Layout Explanation: The area to be controlled/strip grazed is ring-fenced with a 3-strand permanent electric fence, or if already fenced with a conventional fence, an off-set wire can be attached to this fence. Internal camps are fenced with 2 strands of permanent electric fence. The area to be strip grazed can then use a single strand of portable poliwire fencing which simply taps off the subdividing electric fences. The whole system can be powered by a single high-powered JVA MB16 located in the centre of the layout. Gate ways are spanned using spring/tape gates (A-H) for flexibility. Water troughs can be located in the centre walkway. Controlled grazing principles do not apply only to expensive planted irrigated pastures but can, and should, be applied to the grazing management of natural veld as well. Below are examples of high-density, quick rotation, grazing on natural pasturage (veld).



For more information on How to Profit from Pasture visit our website for the full PRACTICAL GUIDE TO STRIP GRAZING BROCHURE



An evenly, well grazed, natural pasture (veld)
Note: No unpalatable tufts left



A camp recovering during the rest period
Note: Thickening of the tufts and better coverage

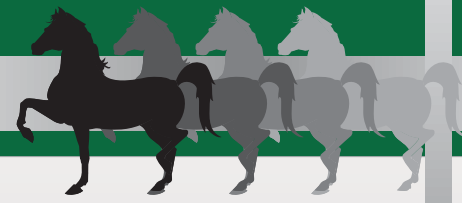


Sheep and cattle being intensively grazed in semi-desert conditions (Karoo/South Africa)
Note: (UHDQGS) Ultra High-Density Quick Grazing System

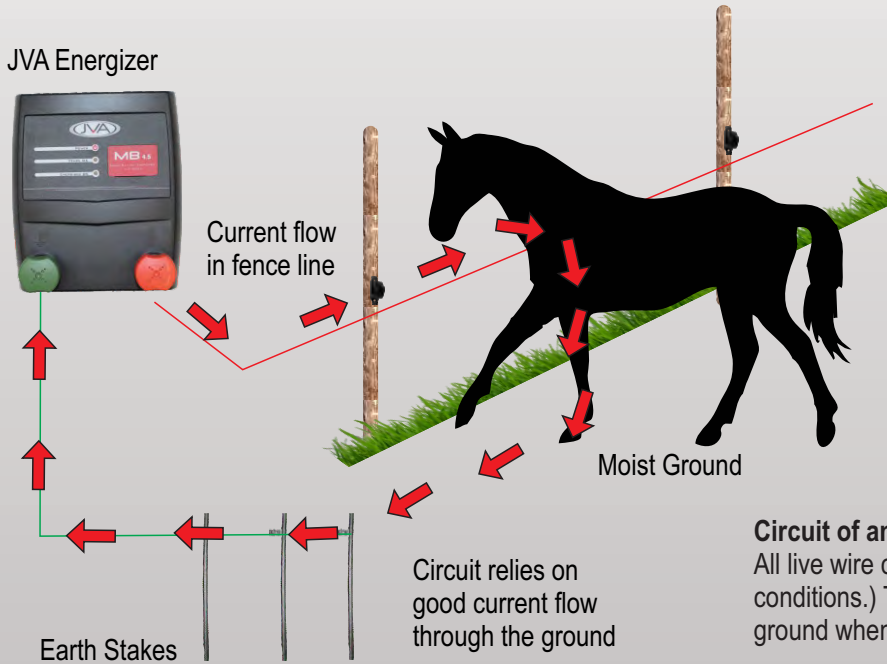


Animals ready to be moved onto un-grazed pasture
Note: Heavily grazed background & after a two-year rest period, the lush growth in the foreground in this very dry area

CIRCUIT OF AN ELECTRIC FENCE



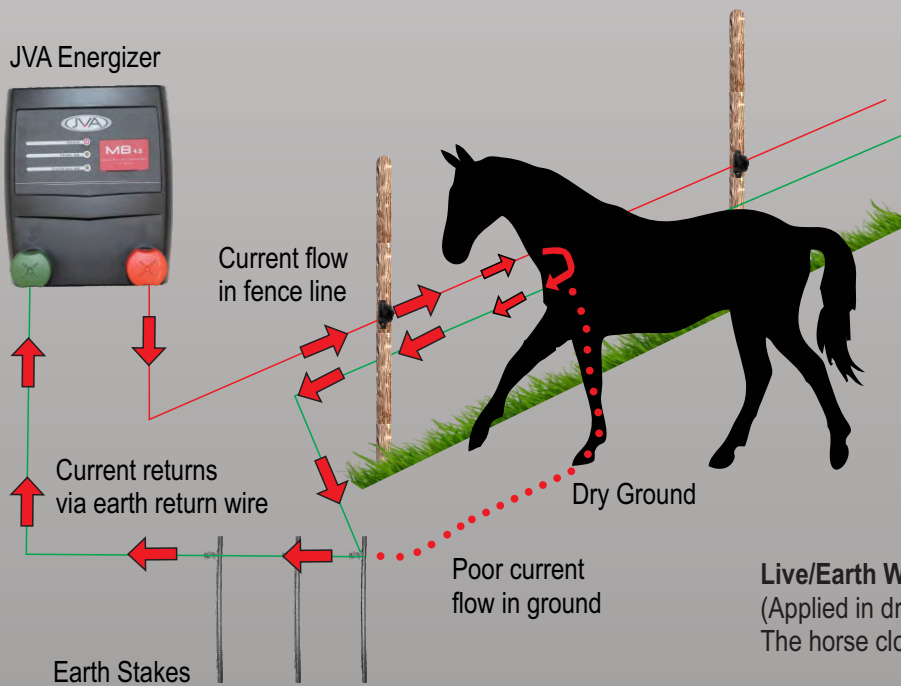
All Live Wire Configuration (Applied in moist ground conditions.)



Circuit of an Electric Fence

All live wire configuration. (Applied in moist ground conditions.) The circuit is closed between the live and the ground when the horse makes contact with the live wire.

Live/Earth Wire Return Configuration (Applied in dry ground conditions.)



Live/Earth Wire Configuration

(Applied in dry ground conditions.) The horse closes the circuit between the live and earth wire.





EQUESTRIAN FENCING



Pivot Gate

Allows free movement of centre pivot wheels through electrified fence camps



S922

Pigtail Standards

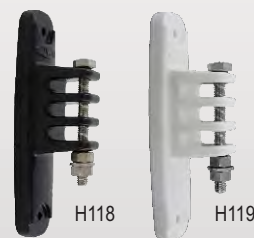
- Durable crimp foot design
- Large foot for ease of placement
- 6mm spring steel
- Ideal for strip grazing cattle



H100

Intermediate Horse Tape Insulator

- This insulator can either be nailed or stapled to wooden posts or it can be pop-riveted to metal posts
- The intermediate horse tape insulator is suitable for both the 40mm and 12mm tape as well as the Polirope.



H118

H119

JVA Corner Strain Insulator

- This robust, unique, versatile, easy-to-install, multi-faceted strainer/corner insulator can be nailed or stapled to a wooden strainer post or pop-riveted onto a metal strainer post
- It has 3-way straining capabilities and is ideal for corners and angles



H101

S921



H115

JVA Horse 3-way activator plate

Used in conjunction with end/corner strain and gate handle, to complete the current when the gate handle is connected



H117

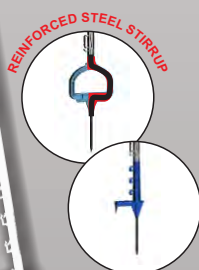
Activator Clip



H124

Intermediate Corner Insulator

This robust, unique, versatile, easy-to-install corner insulator can be nailed or stapled to a wooden strainer post or pop-riveted onto a metal strainer post.



REINFORCED STEEL STIRRUP



H116

12mm Tape Buckle

Used to attach tape to strainer insulator and in electric tape gates



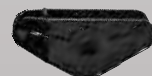
H104

40mm Tape Buckle

Used to attach tape to strainer insulator and in electric tape gates



N770P



N786

Combi or Maxi Tensioner

Used to tighten 12mm Politape



N218B

N218W

N218G

40mm Horse Tape (40mm wide/200m)

Available in white, green or brown, these highly visible UV stabilized tapes are ideal for electric fencing permanent or temporary horse paddocks.

Heavy-Duty Plastic Tread-ins

- Stafix plastic tread-ins are ideal for temporary fencing and can be used with plastic tapes, wire or rope
- Each tread-in has positions for 12mm or 40mm politape or 8mm poliropo or poliwire
- The tread-ins are available in 1.2m (cattle and sheep) and 1.5m lengths (horses)



S216O

S216W

12mm Politape

(12mm wide/200m rolls)

Ideal for temporary subdivision of camps or for the second strand on a permanent 40mm tape fence.

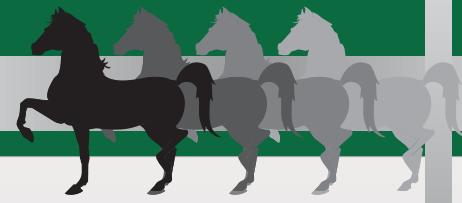


H106

Tape Joiner

An aluminium buckle used to join tape





Poliwire

An economic choice for temporary fencing, featuring stainless steel conductors and UV stabilized yarns; available in white or orange in 200m or 500m rolls



Screw-On Insulator

Can be attached at any point along a dropper to support an electric wire



Ridgeback Dropper

The Ridgeback Dropper is a light, vertical stave in a fence, used to separate the wires of a wire fence.

JVA Ezi-Hook Handle

Multi-purpose handle used in temporary fencing as an insulated hook



Spring Gate Kit



Tape Gate Kit



Bungy Cord Gate Kit

- Consists of multi-stranded latex core and UV resistant sheath, for easy, quick assembly of electric gates
- Four stainless steel wires for maximum conductivity
- Wires cross over 10 times per centimetre for maximum shock exposure
- Heavy duty gate components included
- Standard length 3.5 – 7m



Heavy Duty Compression Gate Break Handle

- Strong robust body
- Positive non-slip grip
- High tensile, heavy-duty spring compresses under tension, preventing over stretching
- Fully galvanized



Value Reel and Stand

- The galvanized value reel holder can be attached to a stand
- Ideal for temporary and movable horse camps
- The reel holds 100m/200m of 12mm/40mm tape or 500m of poliwire
- The reel has a ratchet for superior tension control



Horse Post Insulator

Insulator designed to fit over all common steel Y-posts



Spring Gates

Available in Galvanized Steel or Powder-Coated White. Used for 3,5m cattle and horse electric gates

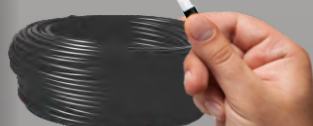


6mm and 8mm Polirope

(6mm/ 8mm wide/200m rolls) Polirope is also suitable for second stranding a 40mm tape permanent fence for making electric gates



- N734S - 50m
- N730 - 100m
- N733S - 200m
- N732S - 1000m



HT Cable Soft, Slimline

Flexible and easy to work with Available in 50m, 100m, 200m and 1 000m

- N734H - 50m
- N730H - 100m
- N733H - 200m
- N732H - 1000m



HT Cable — Hard

Strong and robust, ideal for under gates Available in 50m, 100m, 200m and 1 000m

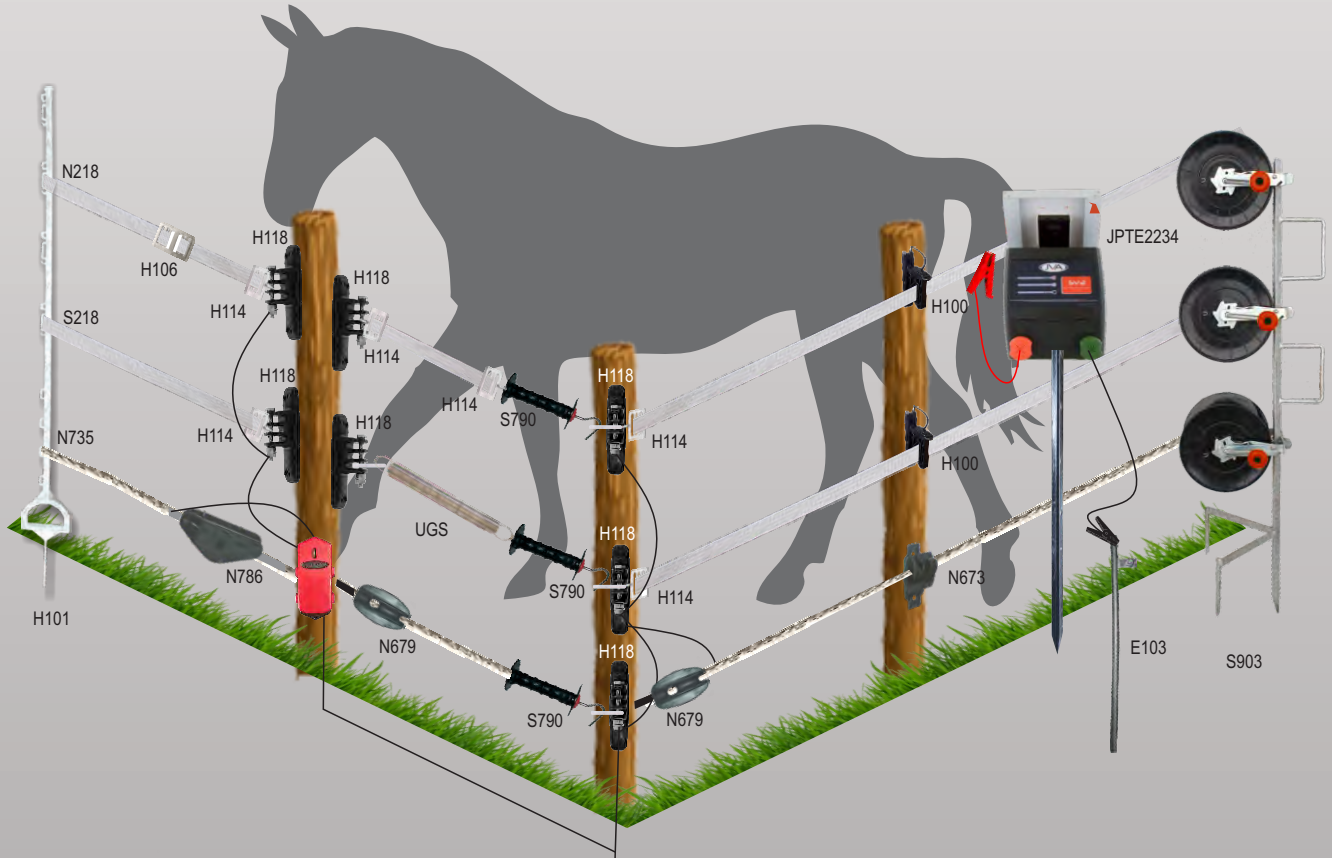
EQUESTRIAN FENCE DESIGNS

How Far will an Energizer Power?

The energy output of the energizer is determined by its joule rating. The higher the joule rating the more powerful the energizer. Equestrian tapes are composed of braided plastic tape interwoven with stainless steel wires to produce a conductive ribbon tape. The thinness of stainless steel strands, plus the physical properties of stainless steel, result in the tape having a very high resistance. Equestrian fences are generally wired in parallel to reduce this fence line resistance. For this reason, we recommend choosing an energizer based on fence length rather than the amount of tape. Having a network of paddocks also helps reduce the fence load as the energizer now has multiple paths through which the energy can flow.



For more information on our Quality Equine Range visit our website for the full PRACTICAL GUIDE TO HORSES AND PONIES BROCHURE



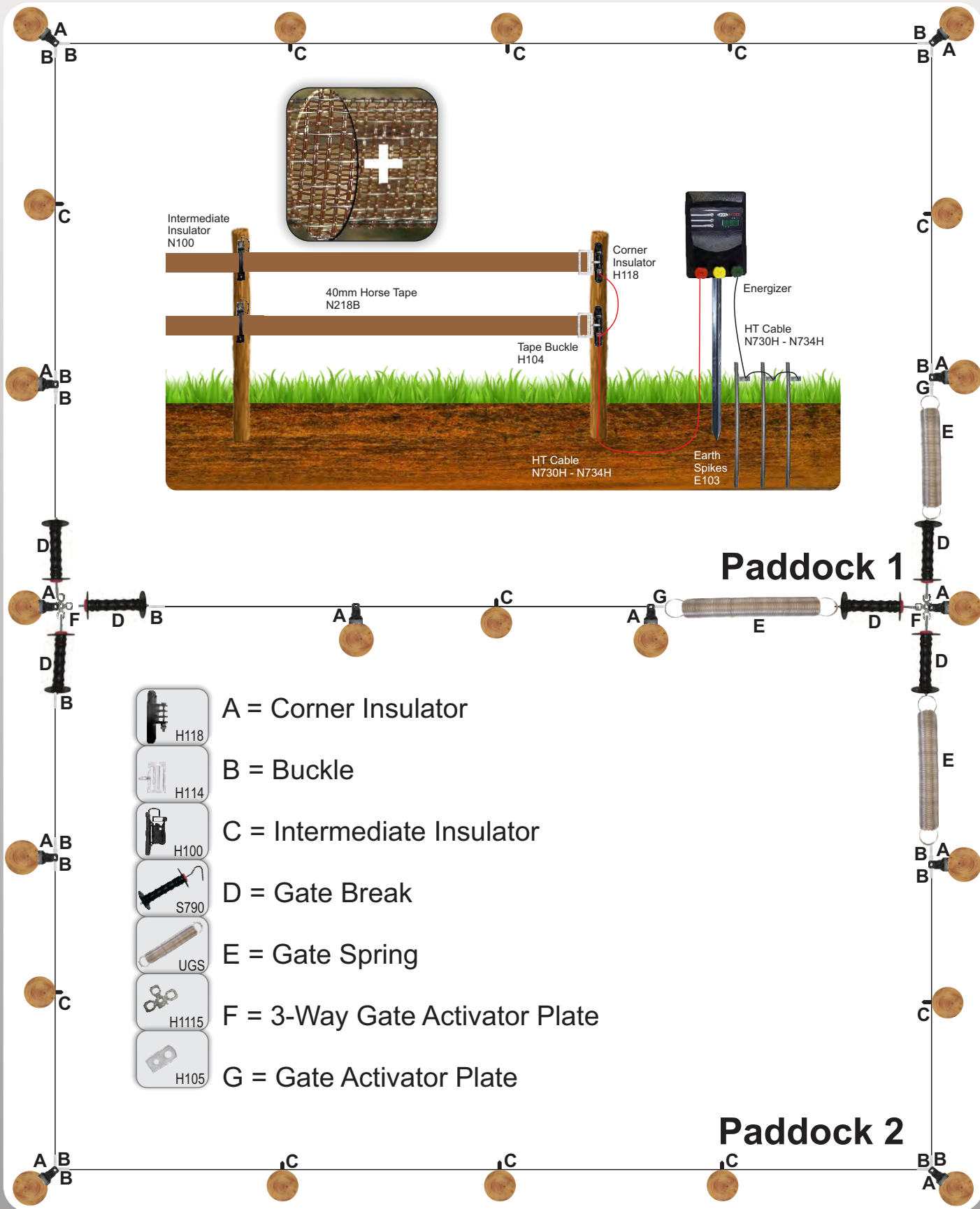
Quality Portable Paddock Kit
A robust easy to set up 6m x 6m Paddock. The Kit is ideal for hard or soft ground and consists of the following:

- 1 x Value Reel with 25m 40mm Horse Tape
- 1 x Reel Stand with Gate Activator
- 1 x Gate Handle and Buckle
- 3 x Corner Posts
- 4 x Robust post mounting pegs
- 4 x 1.5m Pig Tail Tread-Ins
- 4 x Guy Ropes
- 4 x Tent Pegs
- 1 x Carry Bag.

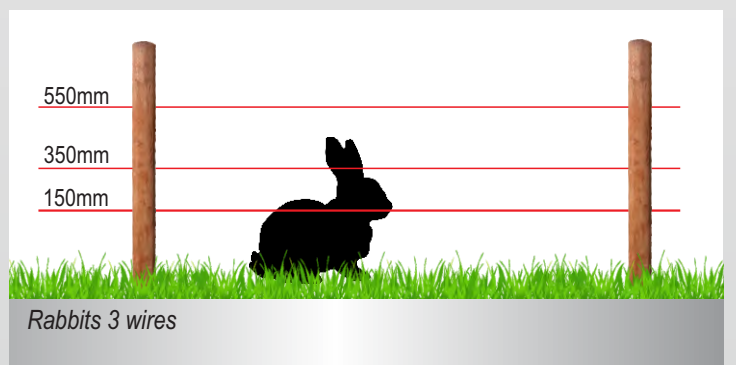
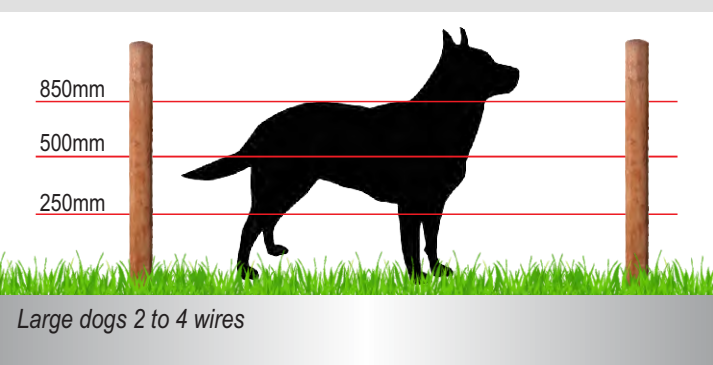
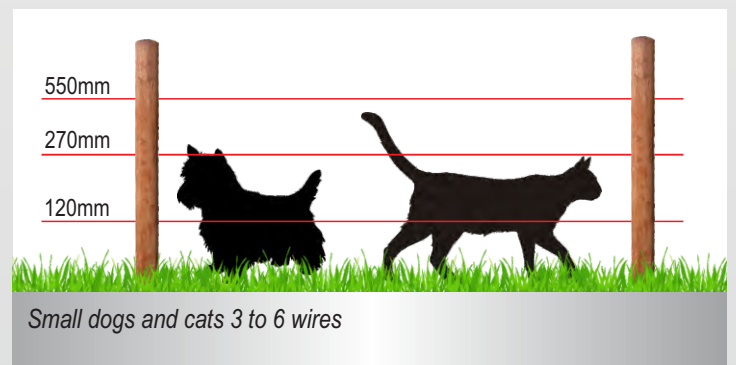
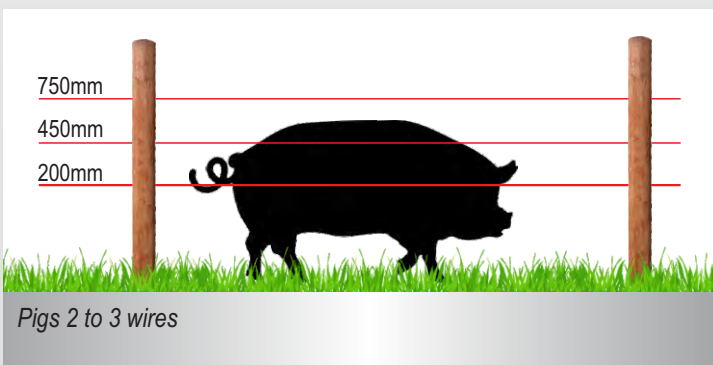
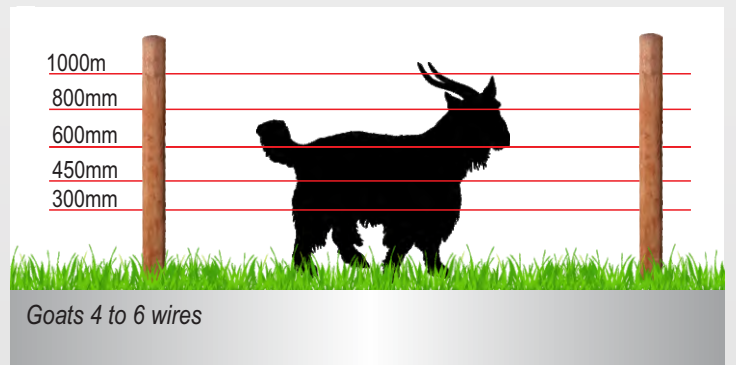
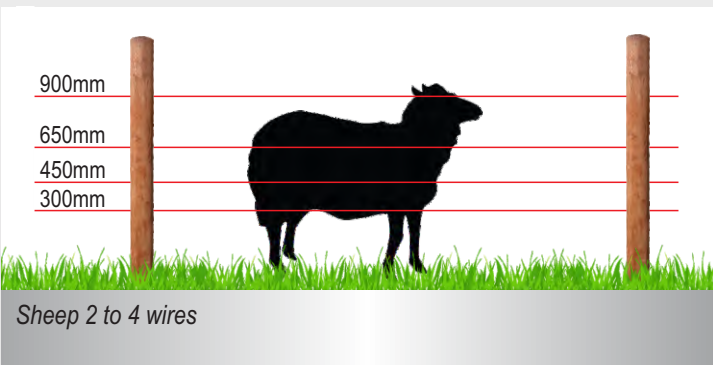
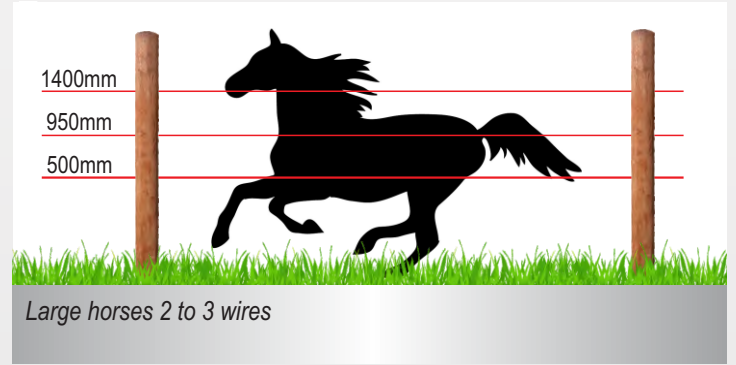
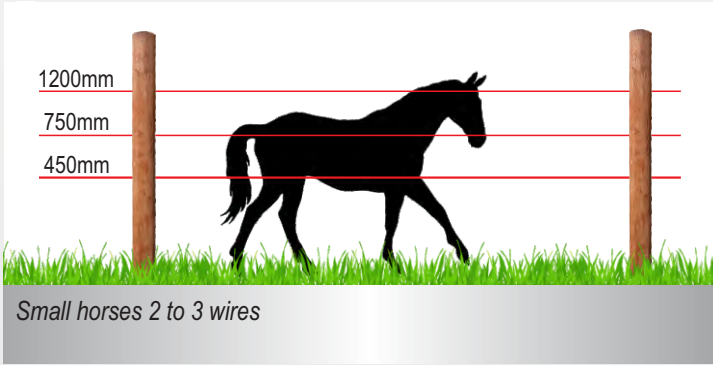
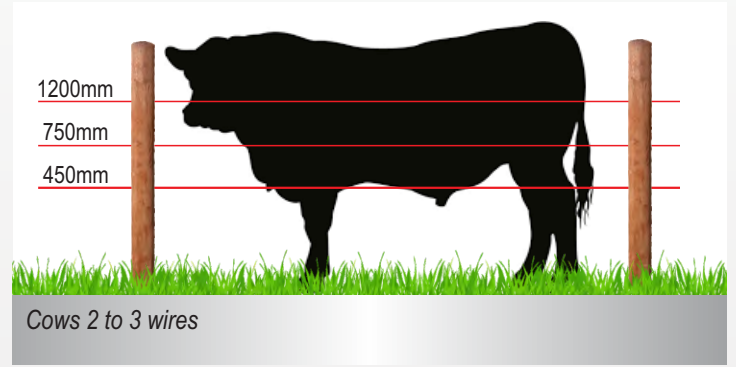
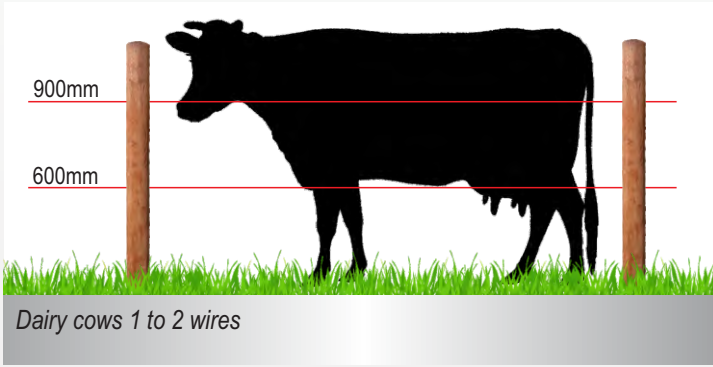
Recommended Energizer SV2



PADDOCK SCHEMATIC



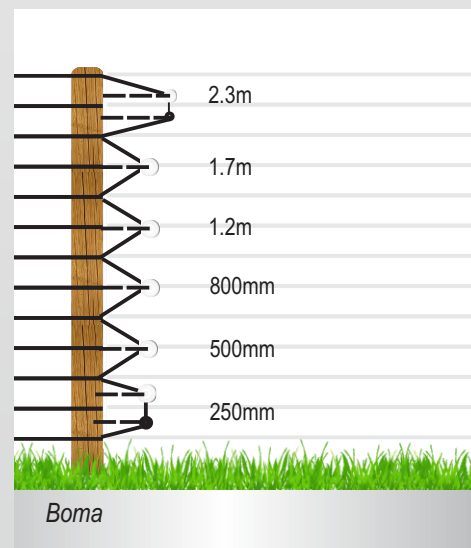
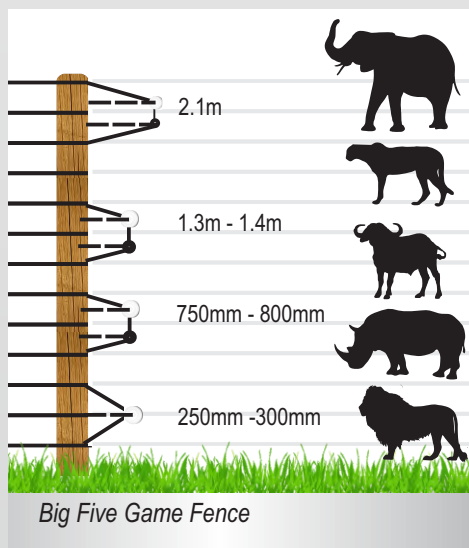
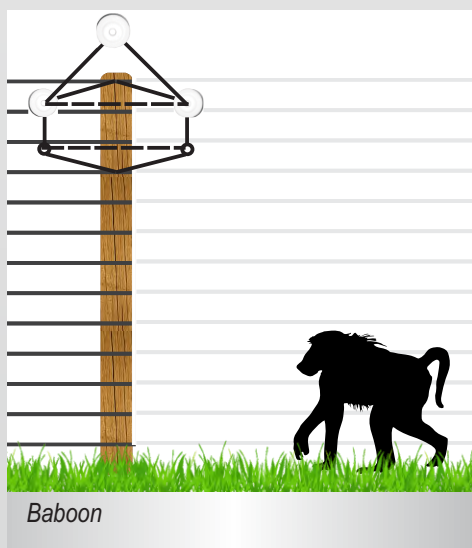
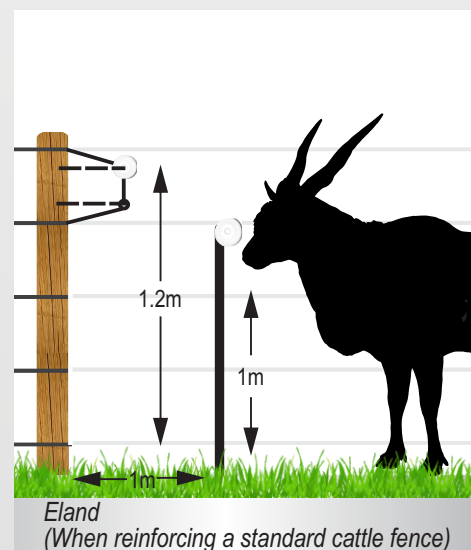
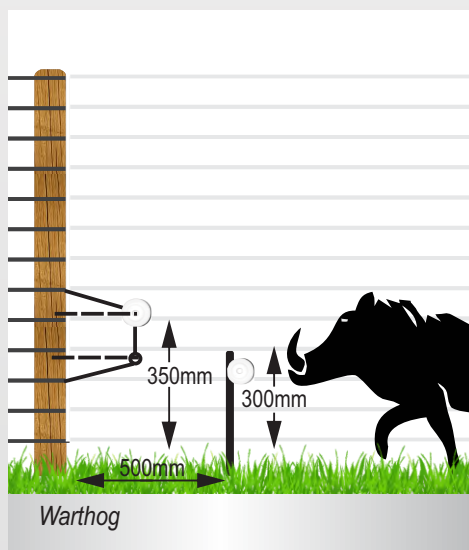
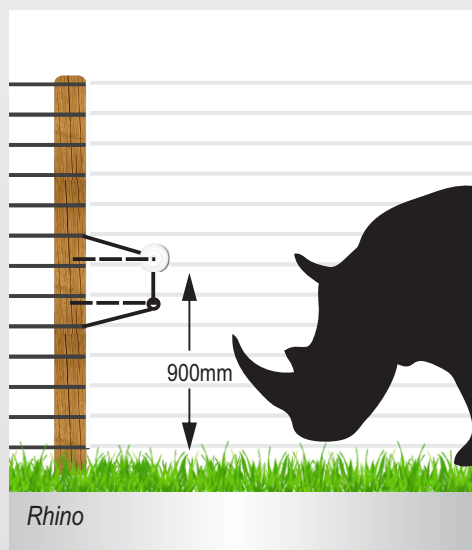
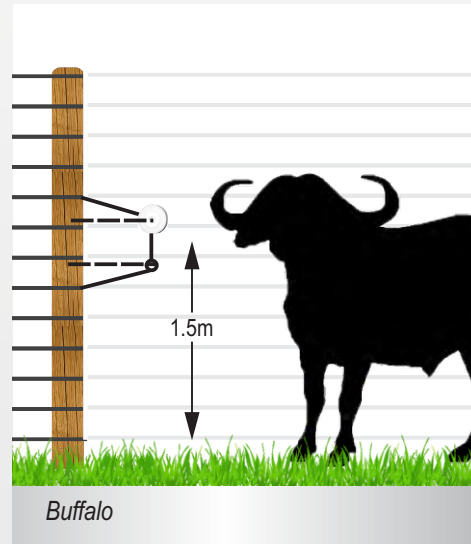
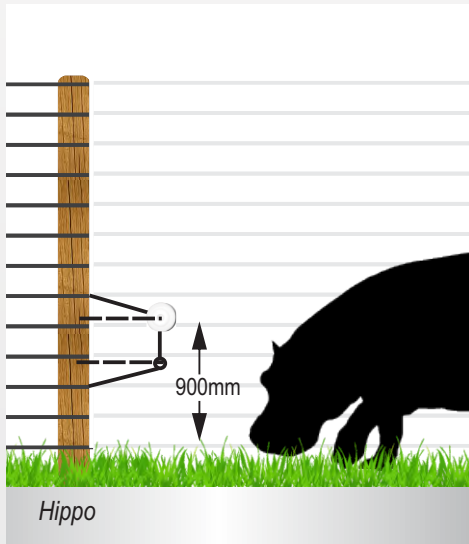
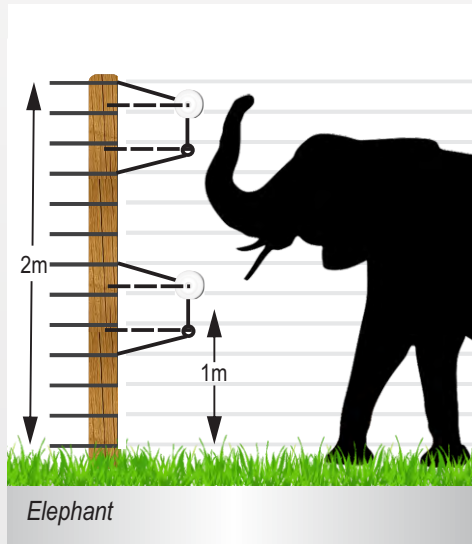
ELECTRIC FENCE HEIGHTS AND WIRE SPACING — AGRICULTURE



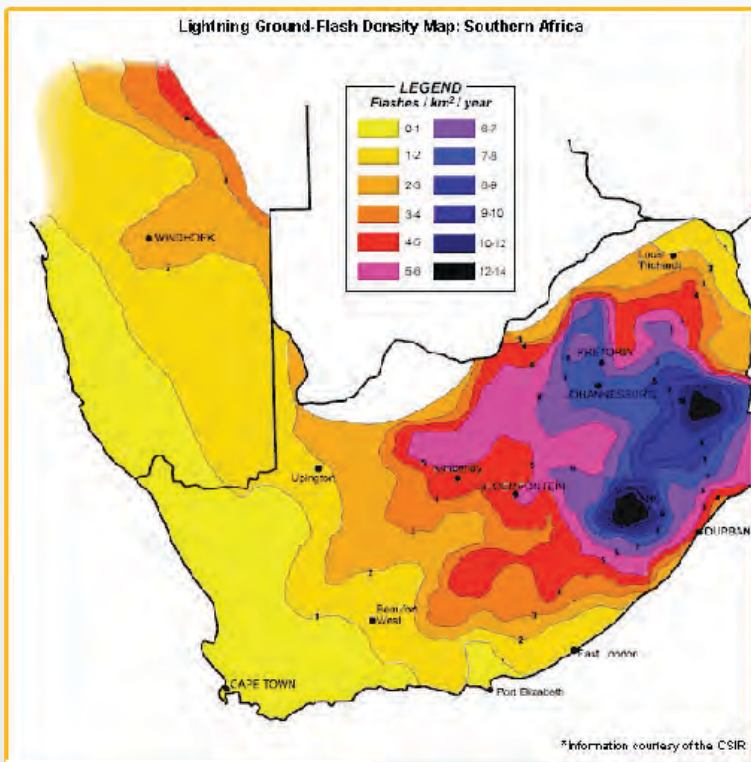
ELECTRIC FENCE HEIGHTS AND WIRE SPACING — WILDLIFE

Wildlife Fence Designs

When designing an electric fence for wildlife control, consider what the fight or flight reaction of the animal one is controlling will be when it makes contact with an electric fence i.e. fight would require a sturdier fence. Also consider their natural response to fences in general, i.e. are they burrowers (porcupine, warthog, wild pig, etc.) blunderers (hippo, buffalo, etc.) jumpers (impala, kudu, eland, etc.) or climbers (monkeys, baboons, leopards, etc.) As a general rule of thumb a live wire should be at nose or chest height to the animal you wish to control.



LIGHTNING AND SURGE PROTECTION



Lightning is the most powerful and most destructive 'natural enemy' of electric fences and while one can take precautions against it, no lightning protection kit will totally guarantee protection against a strike. It will however considerably help reduce the risk and damage to an energizer.

220V Under/Over Voltage Protection Plug

220V Mains Surge Switching Protection Plug. It completely protects electronic equipment by temporarily disconnecting the mains supply when over, or under voltage is detected.



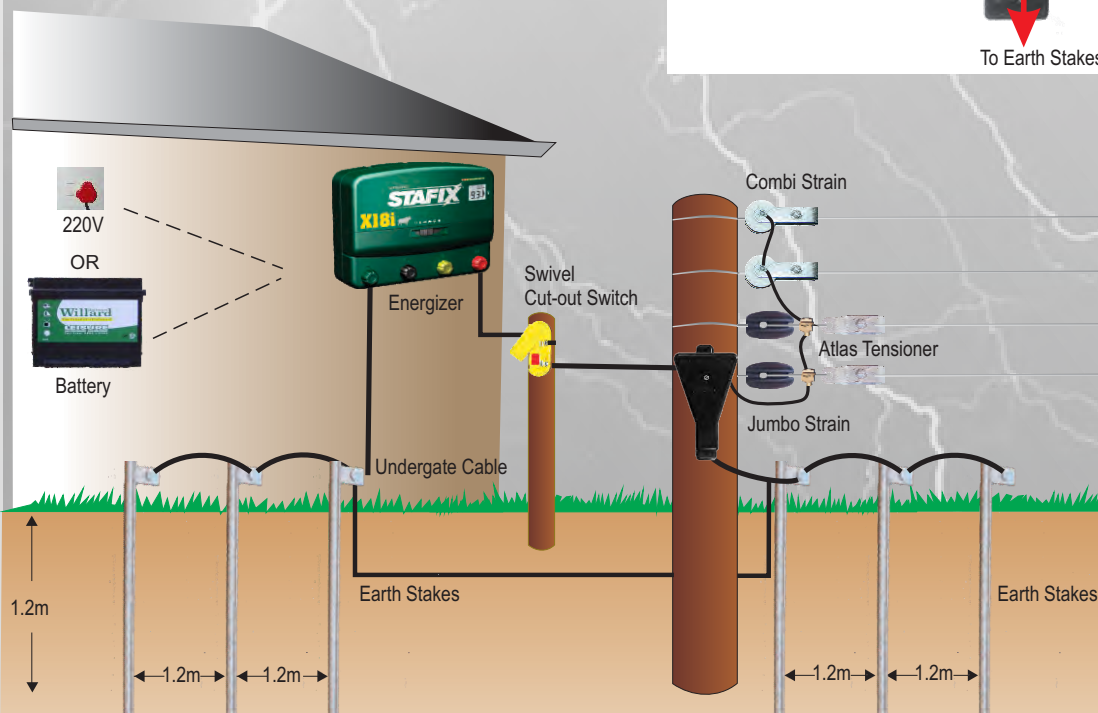
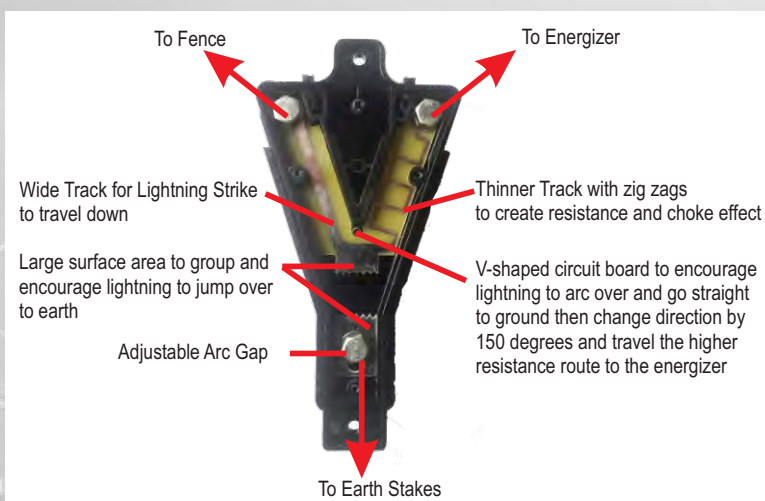
C016

Electric Fence Protection Kit (220V, HV Out and HV Return Protection)

All-in-one HV and 220V surge protection system. The system will protect both the output and the return HV circuit on an electric fence.



C002
C020



LIGHTNING AND SURGE PROTECTION

JVA Fence Line Lightning Diverter

The unique, V-shaped, JVA Electric Fence Lightning Diverter is fully SANS 10222-3 compliant and is ideal for incorporation into lengthy agricultural and wildlife fences in areas where lightning is problematic.

Features:

- Ideal for installations on long fence lines
- Adjustable Choke and Arc Gap built into one diverter
- Large protected terminals
- Unique V-shape favours lightning's preference for shortest, straight line route to ground
- SANS 10222-3 Complaint (20KV Protection and Terminal Touch Protected)
- Waterproof design for external installation.



Cover OFF



N720JVA

Cover ON

JVA Dual Lightning Diverter

AT LAST, a lightning diverter that can handle both the Feed-Out and Return circuits of a monitored security fence! Also, its Two-Stage protection can withstand a lightning surge of up to 2000 Amps, limiting the voltage return to the energizer to an acceptable 15kV. This Dual-Channel Diverter is ideal for any JVA Security Energizer, especially on security fences in areas experiencing high lightning intensity.

Features:

- Feed and Return wiring protection
- Affordable sacrificial security component
- Only one Diverter required for most installations
- Provides a highly visible indication of a lightning surge
- Large sturdy terminals for solid undergate wiring
- Dust resistant design and cover for internal use only.

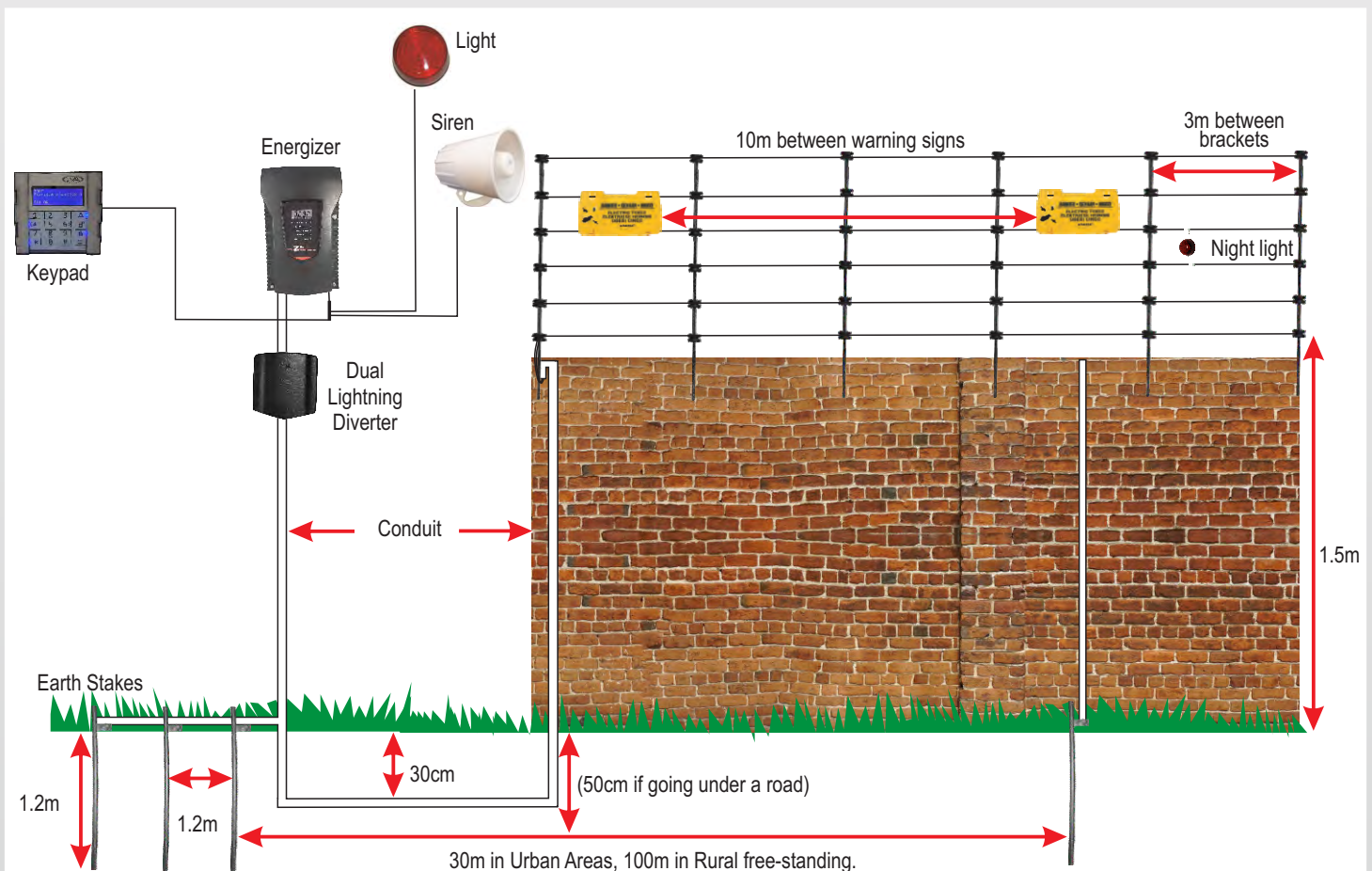


Cover OFF



JPTE0231

Cover ON



SOLAR ACCESSORIES

Solar Panels

Stafix solar panels utilize premium polychrystalline cells secured in heavy-duty aluminum frames. Polychrystalline panels provide superior efficiency conversion of sunlight to electrical current, resulting in faster charging of batteries. A full range of solar panel sizes from 20 watt to 450 watt are available.



Minimum Requirement for Solar Recommendation		
Panel	Charge / Hour	Charge for 6 Hours
20 Watts	1.5	9 Amp
50 Watts	3.6	21.6 Amp
85 Watts	6.2	37.2 Amp
100 Watts	7.3	43.8 Amp
140 Watts	10.2	61.2 Amp
150 Watts	10.9	65.7 Amp
370 Watts	27	162.2 Amp
450 Watts	32.8	197.3 Amp

Enclosures



DMC430W



GSB800



GSB300



EN005
EN006
EN008
EN010
EN011
EN012
EN013

Shock Boxes and Cabinets

A Shock Box is a lockable steel cabinet containing the energizer system. When the energizer is activated via an insulated key switch, the whole box becomes part of the high voltage system, reducing the likelihood of tampering and theft. Shock boxes can be supplied in medium and large sizes and in pole-mount or stand-mount.



N402



N403

SOLAR POWERED SYSTEMS

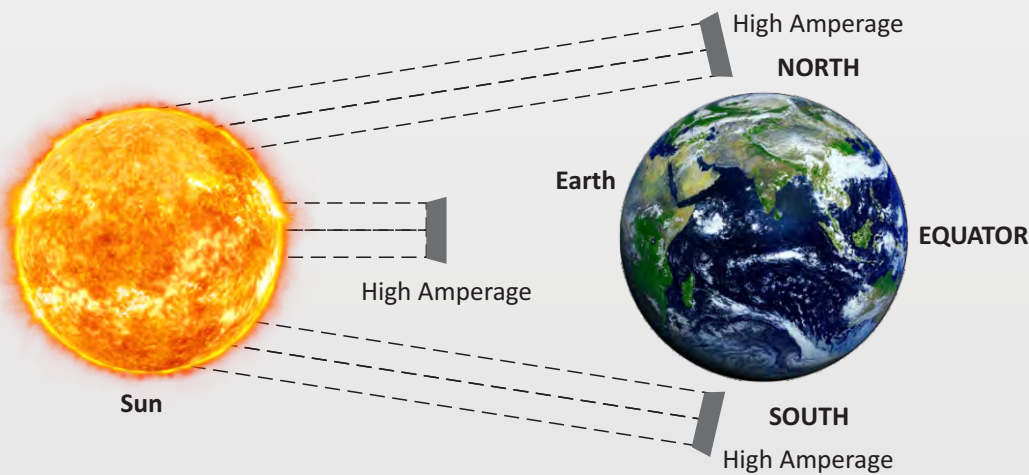
Solar powered energizers are ideal for remote areas without ESKOM power and where the regular servicing of the batteries are difficult. The solar panel draws energy from the sun and converts this energy into electricity which charges the battery. The energizer then draws its power from the battery. Because the solar panel draws its energy from the sun, it requires a regular amount of sunlight.

Location

Situate the solar system at the center of the fencing system away from any shade. Face the panel towards the equator (true north). Angle the panel towards the equator at the angle of latitude + 30 degrees. Protect the panel and energizer from animal damage by erecting an electric fence around the system.



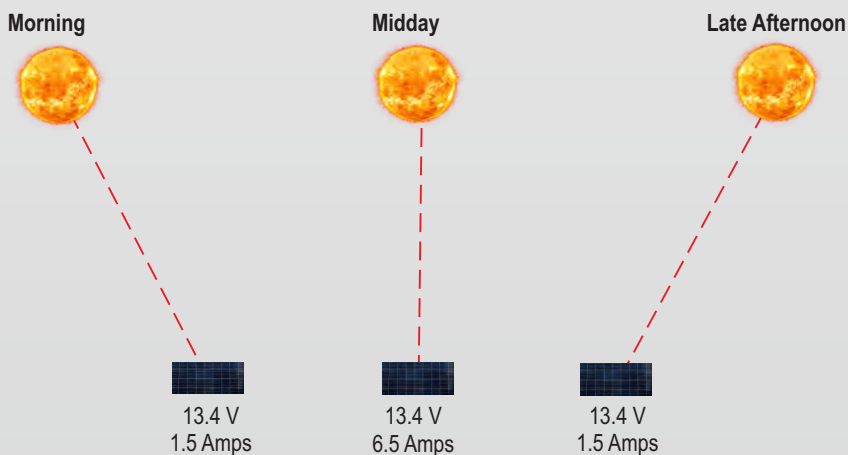
Solar Angle



Normally work on degree of latitude + 30 degrees. By placing the panel at an angle the maximum sunlight is captured.



Daylight Hours



Average Daylight hours are calculated for different areas of the globe, enabling you to calculate the expected overall amperage a panel will generate during the day. For South Africa, this is normally between 4 and 6.5 hours a day.



ELECTRIC FENCE TESTERS AND MONITORS



S304

Remote Control Fence Compass

The Remote Control Fence Compass is a 3-in-1 tool designed specifically for rapid location of faults on an electric fence. In addition to its built-in volt and current meters, it also includes remote control technology for long distance energizer control.

- On/Off switch enables user to turn any Stafix Mains R-series energizer on or off from anywhere on the fence-line
- Large back lit LCD for use in all light conditions
- Display shows the current, voltage and current direction simultaneously
- Displays the previous current reading to compare values
- Audible current indicator
- Cordless design means no ground probe is required
- Integrated belt clip with robust impact and water resistant case
- Replaceable 9V battery, giving up to two years of trouble-free use
- Low battery warning system

Fence Compass

The Fence Compass is a 3-in-1 tool designed specifically for the rapid location of faults on an electric fence.

- Built-in volt and current meters
- Easy to see in all light conditions, even in the dark
- Easy to see which way the current is flowing
- No need to change modes
- Indicates current readings without your needing to look at the screen
- Gives plenty of advance warning that the battery needs replacing
- Caters for even the biggest energizers
- Positive location gives more accurate and steady current readings
- Can be used in all weather
- Is made to withstand the agricultural environment
- Commonly available battery that is easily replaced by the user



S303

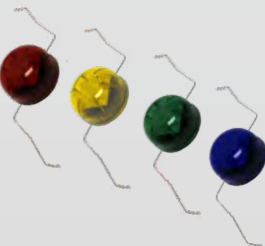


JVABEEP

JVA Fence Beeper

Economical keyfob tester, which, when held in close proximity to a working electric fence, responds with a loud beep.

- When held in close proximity to a live wire on a fence, the beeper will emit a 'beep' indicating power on the fence line.
- Ideal for knowing if a fence is on or off before making contact with it



N704R
N704Y
N704G
N704B

Fence Flashing Lights

This simple flashing LED is inexpensive and connects to the fence between the live and earth wire.

- The LED will flash each time the energizer pulses
- The LED is clearly visible at night
- Continuous monitoring — no reset required
- Sealed weatherproof unit — no maintenance or batteries required

JVA Fault Finder

The JVA Fault Finder is a 3-in-1 tool designed specifically for the rapid location of faults on an electric fence-line.

- Waterproof and impact resistant case
- Simple to use, one-touch operation
- Clearly indicates the direction of the fault
- Leads you quickly to the fault on the fence
- Digital readings show the voltage and current
- No wires or clips means no tangles or shocks
- Uses a standard 9V battery
- Low battery indicator
- Backlit Screen



A301

ELECTRIC FENCE TESTERS AND MONITORS

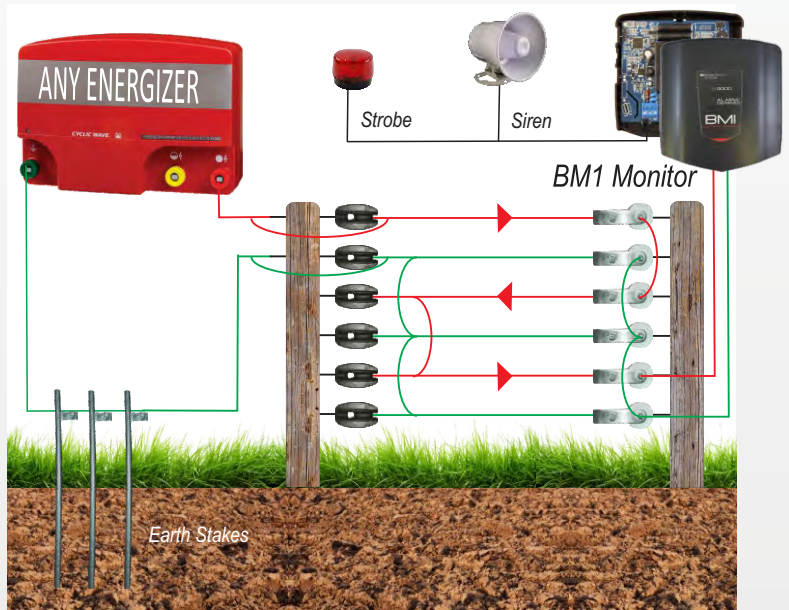
JVA BM1 High Voltage Fence Monitor



JVA BM1

The BM1 (1 Zone) is a basic electric fence monitor. It provides an alarm when your electric fence is cut or shorted or the energizer has been turned off. When connected to the end of the fence (return wire) the BM1 can monitor one complete circuit (zone) of electric fence.

This monitor can be powered from a 12V power supply, or a 12V battery. If you need the monitor to operate during a power failure, consider using a 12V lead acid battery that is being kept charged from a battery charger or solar panel. The BM1 is intended for use with pulsed type electric fence energizers with output voltages of 10kV or less. The energizer should conform to IEC60335.2.76 or similar.



Series Wired Fence Line

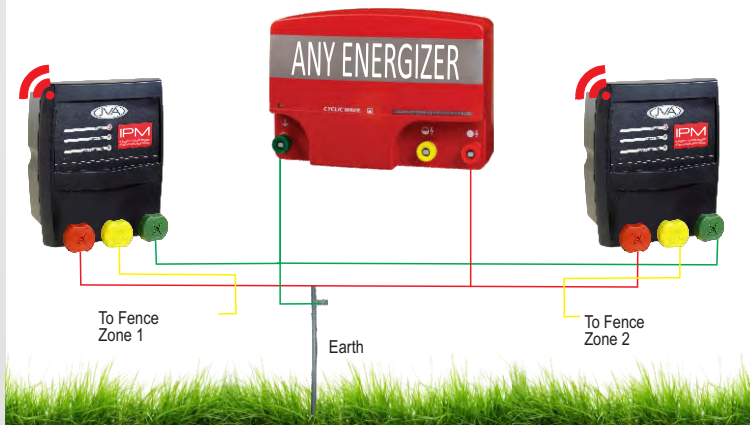
JVA IPM High Voltage Fence Monitor and Switch

The JVA IP Monitor is an Internet-connected electric fence monitor and switch. Using the free IP Energizer Controller App, it allows you to instantly see the status of your configured electric fence from anywhere in the world, switch the fence on and off, and even alerts you should fence voltage or current go beyond configurable thresholds. It works with any energizer and has built-in Wi-Fi technology, making connection a breeze.

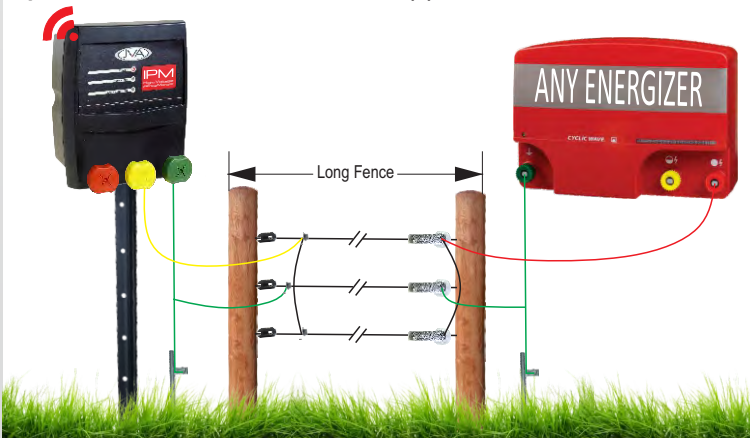


JPT0256

Option 1: Monitor the start of the fence(s)



Option 2: Monitor the end of the fence(s)



Features:

- Mains or 12V Battery operation
- Built-in Wi-Fi for direct internet connection
- Can use 3G/4G cellular network with a separate modem/hotspot
- High power internal relay
- Works with any energizer up to 36 Joules
- Start-of-fence or end-of-fence monitoring
- Can break a large fence system into separately controlled and monitored zones
- UV stable enclosure
- O-ring sealed case for ant and moisture protection
- IP Energizer Controller App available for iPhone and Android.

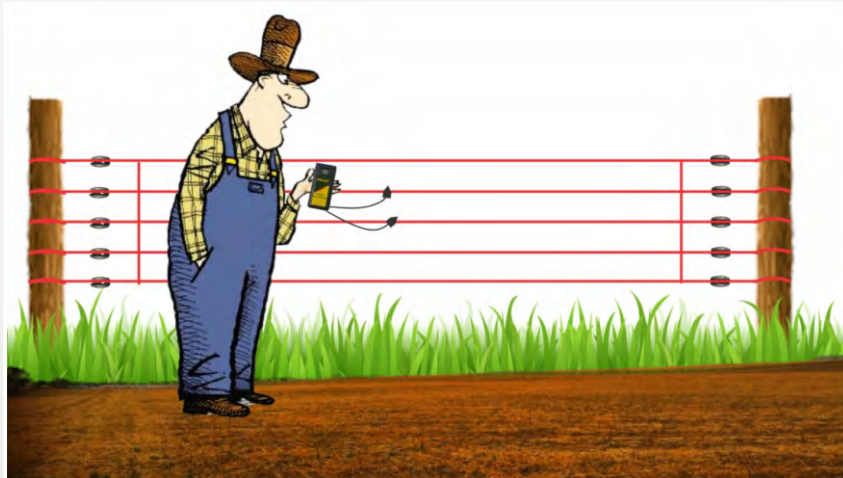


FAULT FINDING CHECK LIST

Reduced Voltage

It is important that agricultural and wildlife electric fences operate at peak performance so that the animals do not lose respect for them. A voltage in excess of 3,000 volts is recommended for domesticated livestock and 6,000 volts for wildlife.

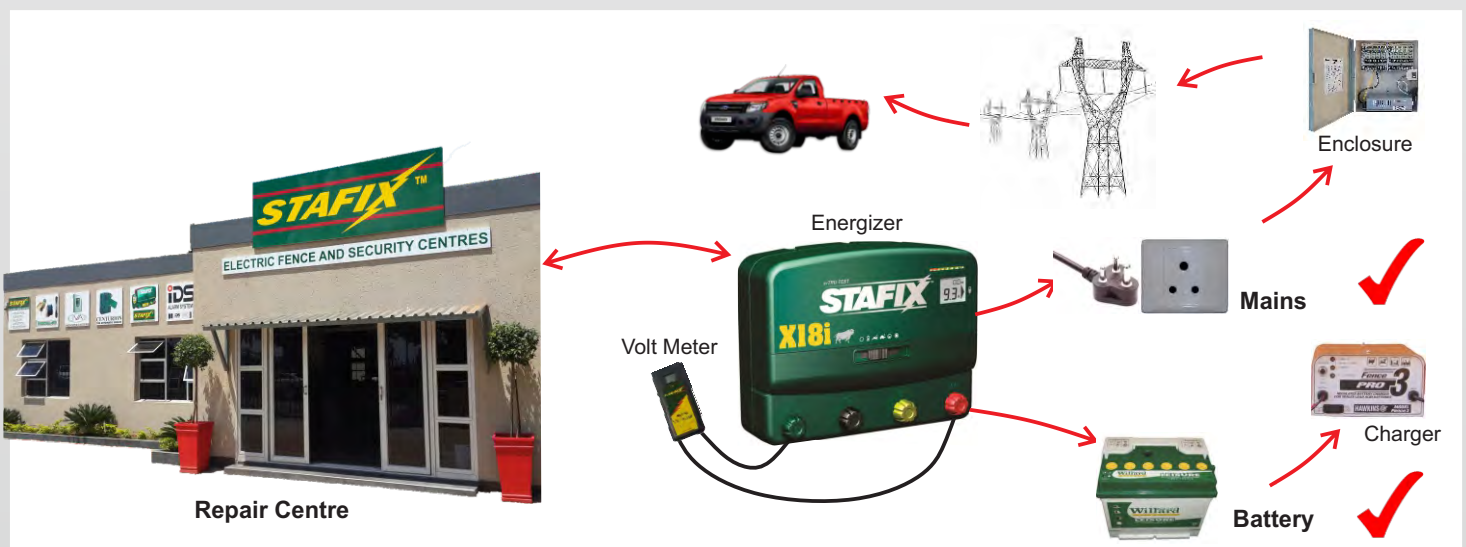
9.0 kV	✓✓✓✓
8.0 kV	✓✓✓
7.0 kV	✓✓
6.0 kV	✓
5.0 kV	?



4.0 kV	??
3.0 kV	???
2.0 kV	✗
1.0 kV	✗✗
0.0 kV	✗✗✗✗

Reduced voltage on a fence line can be caused by a number of factors. To determine the cause take the following steps:

1. Disconnect the energizer from the fence and, using a Digital Volt Meter (DVM), take a reading across the terminals. If a low or zero voltage is recorded, the energizer is probably faulty.
2. However, before taking the energizer to your service agent to repair, make sure that the power supply to the unit is working. If it is a mains powered unit, check that the unit is plugged in and there is mains power available. If it is a battery unit, check the battery voltage (anything below 12 volts is flat) and that the float charger, solar panels and regulator are working.
3. If the energizer is working, reconnect it to the fence line and check your earthing system. Check that connections to the earth electrodes have not corroded and that the electrodes themselves are sound. (See earthing page 3.)
4. Check whether the lightning diverter has been damaged and is causing a short.
5. Disconnect the fence from the lead-out and check the voltage at the end of the lead-out to the fence line.
6. If all the above are operational, then using a DVM or Directional DVM, check the fence line faults. In the planning stage, cut-out switches should have been installed at strategic points thereby enabling one to cut off sections of fence line. If a section is switched off and the fence starts working again, the fault is along the cut off section.
7. Always check voltages on either side of a gateway to ensure that the underground cabling has not been damaged.
8. When walking the fence line looking for faults, look out for broken or twisted wires, heavy competition from vegetation, bad connections or corroded joints, cracked insulators, fallen branches or trees, stray wires on the ground making contact with the fence line or cut-out switches left open.



FAULT FINDING CHECK LIST

Induction

Induction is the phenomenon whereby electricity is transferred from an electrified wire to a non-electrified wire or steel framework e.g. a gate, without their actually touching each other. To avoid shocks from this induced electricity, simply 'short out' the offending object by attaching additional earth electrodes to the item. Poor earthing during the construction stage of a fence line can also result in metalwork within buildings becoming live.

TV, Radio and Telephone Interference

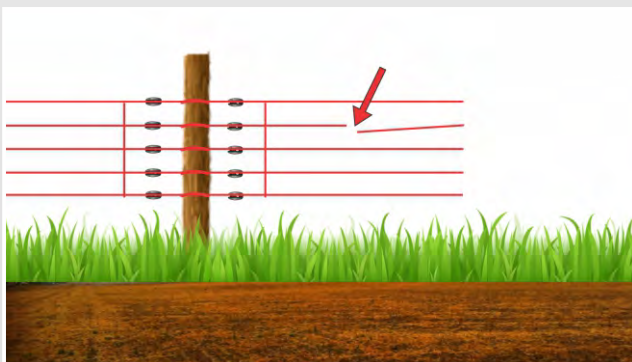
EMF Interference: Poorly constructed and inadequately earthed fences can cause TV, radio or telephone interference. Shorts on a fence line running parallel to telephone lines will cause clicking on the phone line. Also, poor pulse shapes emitted from non-compliant energizers will cause TV and radio interference. This is one of the reasons why it is important to use only energizers that have been tested and comply with IEC SANS 60335-2-76.

Fence Hygiene

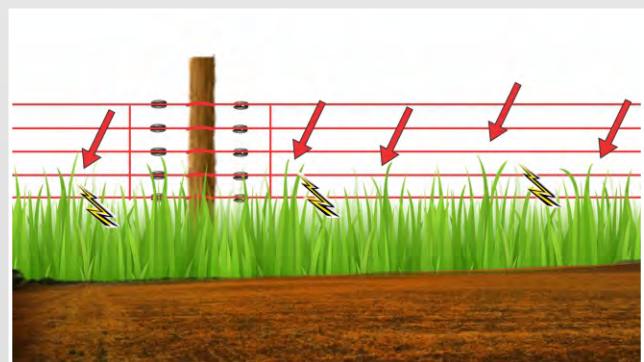
To ensure that the power for your electric fence system is where you want it, namely on your fence line, apply the following fence hygiene tips:

- Clean fence lines: Keep fence lines clear of vegetation; use a good weedicide where practicable; heavily overgrown fence lines will drain power from the fence line.
- Joins: Ensure annually that all joints are well clamped; check and tighten them during the heat of the day in mid-summer.
- Earthing: The importance of good earthing cannot be overstressed; check periodically that the stakes have not deteriorated and that the clamps, attaching the earth wire from the energizer to the earth stakes, are tight and in good condition.
- Good housekeeping: Keep the fence line clear of old wire, tin cans, corrugated iron, and barrels; animals may knock them onto the fence line and cause shorts; do not stack articles against an electric fence.
- Power on: Always leave the energizer switched on; where charging facilities are being used ensure that the power supply is always on and the batteries are not allowed to run down.
- Authorised operator: Personnel operating the system should be trained and should have a good understanding of the principles of electric fencing and fault finding.

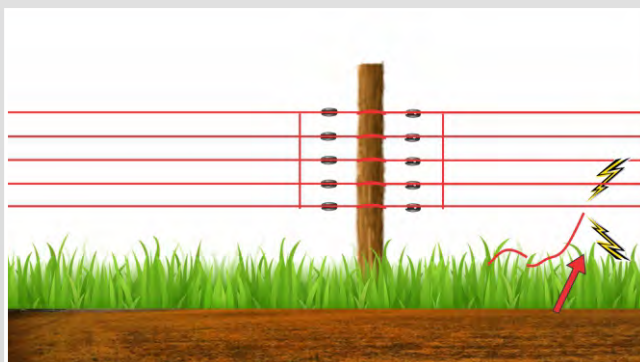
Common Faults



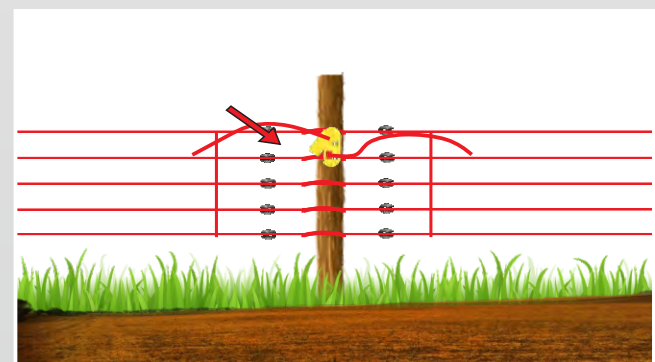
Broken or Twisted Wires



Very heavy competition from vegetation



Stray wire making contact with the fence or ground



Cut-out switch left open

JVA SECURITY ENERGIZERS

JVA Z11 & Z13 Economy Security Energizers



The JVA Z11 and Z13 Single-Zone Security Energizers are the entry level energizers in the Z-Range. They are manufactured to meet customer demand for a simple, no-frills, economical unit for small, domestic, commercial and industrial sites. The units are fully compatible with the Z-Range keypad and when wired up to a keypad, are fully programmable. All Z-Range energizers, with the addition of a Wi-Fi Board can be fully controlled from a mobile phone.

Features:

- 1-Zone Security Fence Energizer
- Single zone monitor
- Single gate facility
- Earth monitoring facility
- 3 Joules maximum output energy
- Energizer supplied with secure Key Switch Operation
- Compliant with IEC SANS 60335-2-76
- Diagnostic mode
- Keypad programmable.



JVA Z14, Z18 and Z114 Security Energizers



The JVA Z-Range of One-Zone Security Energizers with LCD displays are top-of-the-range energizers meeting all requirements from the basic home security fence to fully integrated high profile installations. These energizers have LCD displays showing *Feed and Return* voltages, battery condition and fence programming settings.

The units are fully compatible with the Z-Range keypad and when wired up to a keypad, are fully programmable. The energizers can be networked with other Z-Range energizers to synchronize pulses and become a multi-zone group for larger sites where many zones are required. These energizers can be controlled via a PC or by up to 3 individual keypads, or 1 keypad controlling up to 14 Z-Range energizers.

Features:

- High-Voltage, Single-Zone Fence Monitor triggers alarm when live wires are tampered with
- Earth Wire Monitor triggers alarm when the earth wires are tampered with
- LCD Voltage Feed and Return Display
- Gate Monitor input to monitor the gate
- Dynamic Voltage Monitoring minimizing arcing and false alarms while maximizing power and battery life
- 4, 8 and 14 Joules maximum output energy respectively
- Compliant with IEC SANS 60335-2-76
- Built-in Lightning and Surge Protection
- Up to 24-Hour Monitoring in the event of a power failure
- High and low power options
- Energizer supplied with secure Key Switch Operation
- Diagnostic Mode
- 2 Standard Fully Programmable Relays plus option for 3 more on request
- Keypad Compatible – Use a Z-Range Keypad
- Programmable to Bi-polar or Standard
- Pulse Synchronization in group mode
- Anti-tamper option programmable on request
- Internal Battery Backup in case of power failure.

JVA SECURITY ENERGIZERS

JVA Z25 and Z28 Security Energizer



The JVA Z25 and Z28 Dual-Zone Security Energizers with LCD displays are top-of-the-range high power energizers, ideal for installations where better zone identification is required. The Z25 and Z28 can meet all requirements from longer wall-top fences to industrial and high profile installations.

JVA Z28 Energizer Features:

- High Voltage, Dual-Zone Fence Monitor triggers alarm when live wires are tampered with
- Earth Wire monitor triggers alarm when the earth wires are tampered with
- LCD Voltage Return Display for both zones
- Gate Monitor inputs to monitor the gates
- 2.5 - 5 Joules maximum output energy per zone
- Compliant with IEC60335-2-76
- Built-in Lightning and Surge Protection
- Internal Battery Backup in case of power failure
- High and low power options
- Dynamic Voltage Monitoring minimizing arcing and false alarms while maximizing power and battery life
- Energizer supplied with secure key switch operation
- Diagnostic Mode
- Optional extra Relay Board on request – total 4 relays
- Keypad Compatible – Add Z-Range Keypad
- Up to 18-Hour Monitoring in the event of a power failure
- Pulse Synchronization.

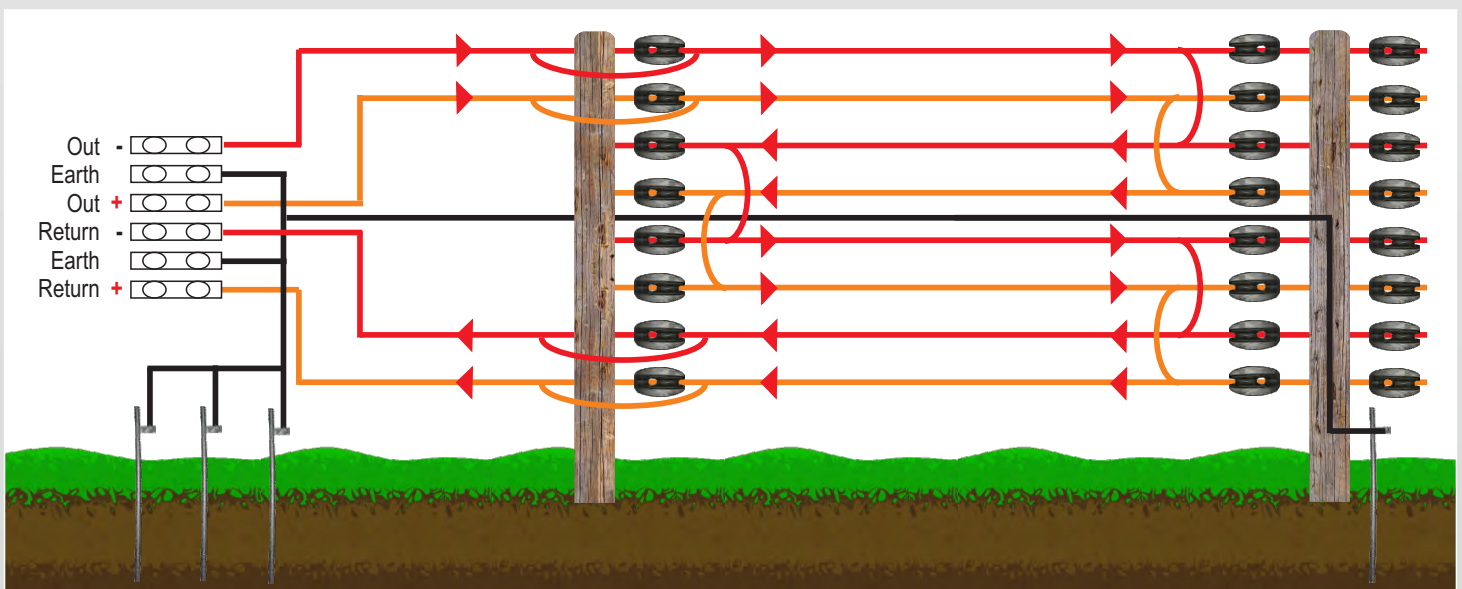
The energizer has an LCD display showing return voltages for each zone, battery condition and fence programming settings. The unit is fully compatible with the optional Z-Range Keypad and when wired up to a keypad is fully programmable. The energizer can be linked with other Z-Range Energizers to synchronize pulses and become a multi zone group for larger multi zone sites. The Z25 and Z28 can be controlled by a PC or up to 3 keypads, or 1 keypad can control up to 14 Z-Range Energizers.

What is Bi-POLAR fencing?

The JVA Z14, Z18 and Z114 Energizers can be programmed to Bi-Polar mode. This gives rise to the question: What is Bi-Polar Fencing and what exactly are the benefits of this wiring configuration?

A Bi-Polar fence is an all-live wire fence. A Bi-Polar energizer has the ability to pulse synchronized positive and negative pulses down alternate wires of the same fence line. So, instead of having alternate live and earth wires on the same fence line, one now has one wire with a positive pulse and one wire with a negative pulse. This means that all the wires on the security fence are live with the exception of the open true-earth wire in the fence grid, should one be included.

A reading taken between the positive pulsing or negative pulsing live wires and the earth, will give half the voltage of a normal live/earth configuration. However, when one touches both the positive and negative pulsing wires, one will receive the 'full monty'. The big plus factor of this configuration is that, by reducing the voltages to each wire, one helps eliminate the annoying and often difficult-to-eliminate arcing experienced in coastal or dusty areas.



JVA SPECIFICATIONS

SPECIFICATIONS	Z11	Z13	Z14	Z18	Z114	Z25	Z28
Stored energy	3J	5J	6J	12J	17J	2x4J	2x6J
Maximum Output energy	1.8J	3J	5J	8J	14J	2x2.5J	2x4J
Output voltage maximum	10kV	10kV	10kV	10kV	10kV	10kV	10kV
Output voltage LCD display	Keypad	Keypad	✓	✓	✓		
Return voltage LCD display	Keypad	Keypad	✓	✓	✓	✓	✓
Backup time maximum	24hrs	24hrs	18hrs	18hrs	16hrs	16hrs	14hrs
Ext 16VAC transformer	✓	✓	✓	✓	✓	✓	✓
Battery volts	12V	12V	12V	12V	12V	12V	12V
Battery capacity	7Ah	7Ah	7Ah	7Ah	9Ah	7Ah	7Ah
Pulse frequency	0.8hz	0.8hz	0.8hz	0.8hz	0.8hz	0.8hz	0.8hz
Pulse width	0.3ms	0.3ms	0.3ms	0.3ms	0.3ms	0.3ms	0.3ms
Alarm delay	*	*	*	*	*	*	*
Siren time out	*	*	*	*	*	*	*
Bi-Polar capability			✓	✓	✓		

* Programmable by keypad

RECOMMENDED SERIES WIRE LENGTH	Z11	Z13	Z14	Z18	Z114	Z25	Z28
1.2mm SS	0.6km	0.8km	1km	1.5km	2km	2x0.6km	2x1km
1.6mm SS	1.2km	1.4km	1.6km	2km	2.5km	2x1.2km	2x1.6km
2mm SS	1.8km	2.1km	2.4km	3.3km	3.6km	2x2km	2x2.4km
1.2mm braided galvanized	2km	3km	4km	8km	10km	2x2.5km	2x4km
2mm braided galvanized	2.5km	3.5km	5km	8km	10km	2x3km	2x5km
2.24 galvanized HSS	3km	4km	6km	10km	14km	2x3.5km	2x6km
1.6mm aluminium wire	6km	8km	10km	20km	25km	2x6km	2x10km

DIMENSIONS	Z11	Z13	Z14	Z18	Z114	Z25	Z28
Size (height, width, depth) mm	300x190x115	300x190x115	300x190x115	300x190x115	300x190x115	300x190x115	300x190x115
Weight (without battery)	2.0kg	2.0kg	2.1kg	2.4kg	3kg	2.2kg	2.4kg

POWER CONSUMPTION	Z11	Z13	Z14	Z18	Z114	Z25	Z28
Average current draw	500mA	500mA	550mA	1000mA	1200mA	900mA	1000mA
Peak current draw	600mA	600mA	750mA	1200mA	1400mA	1100mA	1200mA

All energizers in the Z-Range can be used in a Multi-Zone Network

JVA SPECIFICATIONS

SOLAR PANEL SPEC	Z11	Z13	Z14	Z18	Z114	Z25	Z28
Recommended battery	50Ah	50Ah	50Ah	105Ah	105Ah	105Ah	105Ah
Solar panel	60w	75w	75w	100w	120w	100w	120w
Solar regulator	10A	10A	10A	10A	20A	10A	10A

Solar panel calculations based on an installation in Johannesburg, South Africa.
Location-specific recommendations available on request.

WARRANTY	Z11	Z13	Z14	Z18	Z114	Z25	Z28
2-year warranty	✓	✓	✓	✓	✓	✓	✓

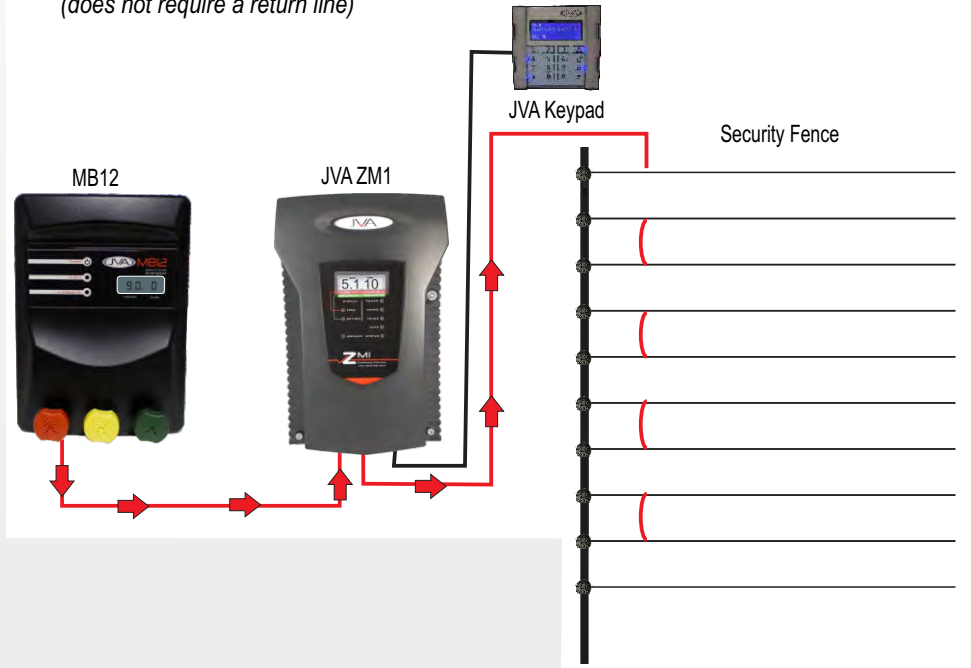
CERTIFICATION	Z11	Z13	Z14	Z18	Z114	Z25	Z28
Compliant (IEC60335-2-76)	✓	✓	✓	✓	✓	✓	✓

FEATURES	Z11	Z13	Z14	Z18	Z114	Z25	Z28
Fence monitor	✓	✓	✓	✓	✓	✓	✓
Gate (aux.) monitor	✓	✓	✓	✓	✓	✓	✓
Low voltage monitor	✓	✓	✓	✓	✓	✓	✓
Siren driver	✓	✓	✓	✓	✓	✓	✓
Strobe driver	✓	✓	✓	✓	✓	✓	✓
Armed response	✓	✓	✓	✓	✓	✓	✓
On/Off reset key	✓	✓	✓	✓	✓	✓	✓
Remote control option	✓	✓	✓	✓	✓	✓	✓
Battery backup	✓	✓	✓	✓	✓	✓	✓
Keypad LCD optional	✓	✓	✓	✓	✓	✓	✓
Multi-Keypad compatible	✓	✓	✓	✓	✓	✓	✓
Keypad voltage display	✓	✓	✓	✓	✓	✓	✓
Keypad tamper alert	✓	✓	✓	✓	✓	✓	✓
Microprocessor	✓	✓	✓	✓	✓	✓	✓
Programmable	✓	✓	✓	✓	✓	✓	✓
Earth monitoring	✓	✓	✓	✓	✓	✓	✓
Security	✓	✓	✓	✓	✓	✓	✓
Software controllable	✓	✓	✓	✓	✓	✓	✓
Solar power option	✓	✓	✓	✓	✓	✓	✓
Number of zones	1	1	1	1	1	2	2
Multi-zone pulse sync	✓	✓	✓	✓	✓	✓	✓

JVA ZM1 FENCE MONITORING SYSTEM



An agricultural energizer transformed into a security system by addition of a JVA ZM1 Monitor (does not require a return line)



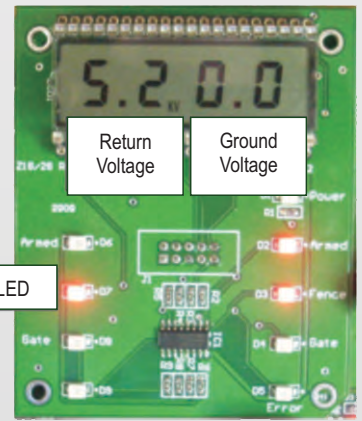
The ZM1 is designed to be coupled with any standard electric fence energizer (See *Limitations* below.), to power and monitor an electric fence. It can monitor large energizers, making it ideal on large agricultural, game and border security fences. The combination of the ZM1 and the energizer operates in the same way as a single JVA Z-Range security energizer, with the exception that the pulse power level of the energizer cannot be modified.

The ZM1 monitors the live feed line from the energizer to the fence. It determines if the fence is working properly by measuring the voltage and current, and thereby power flowing to the fence. As such, it does not require a return line from the end of the fence. This can represent a large saving on installation costs on new fences or make monitoring an existing fence possible if no return line was originally wired.

The ZM1 can, however, also monitor the return if that is desired. The ZM1 has many programmable options which can be adjusted using a JVA Z-Range keypad. By correctly setting the alarm threshold levels, it is possible to determine if a fence has been cut or shorted at any point.

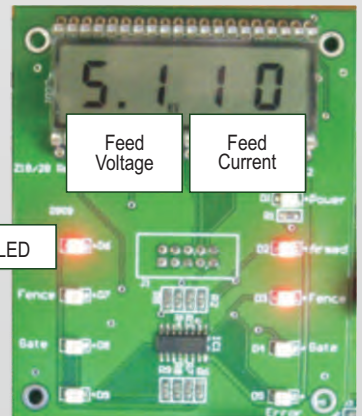
Features:

- Built into the wall-mountable Z-Range energizer enclosure
- Does not require a return line
- LCD current display (load)
- LCD earth voltage display
- LCD voltage display for out and return voltage
- Controllable and programmable via keypad with similar codes to the Z-Range
- Monitors fence voltage and current to trigger an alarm if current rises or voltage falls (load increases)
- Can be combined with any energizer, to produce a full-featured, security electric fence energizer/monitor
- Start and end of fence monitoring
- Able to be monitored via PC (using Z Control or Perimeter Patrol software)
- Run from 16Vac or 12V DC external source
- Built-in battery charger plus connection for alternate larger external battery and charger
- Controls 12V DC feed to energizer
- Can control a 220Vac energizer via external relay (not supplied), (12V coil, 240Vac rated contacts)
- Remote on/off or key switch
- Gate contact input
- Siren and Strobe switched 12V DC outputs
- 3 on-board relays with many programmable functions.



Return LED

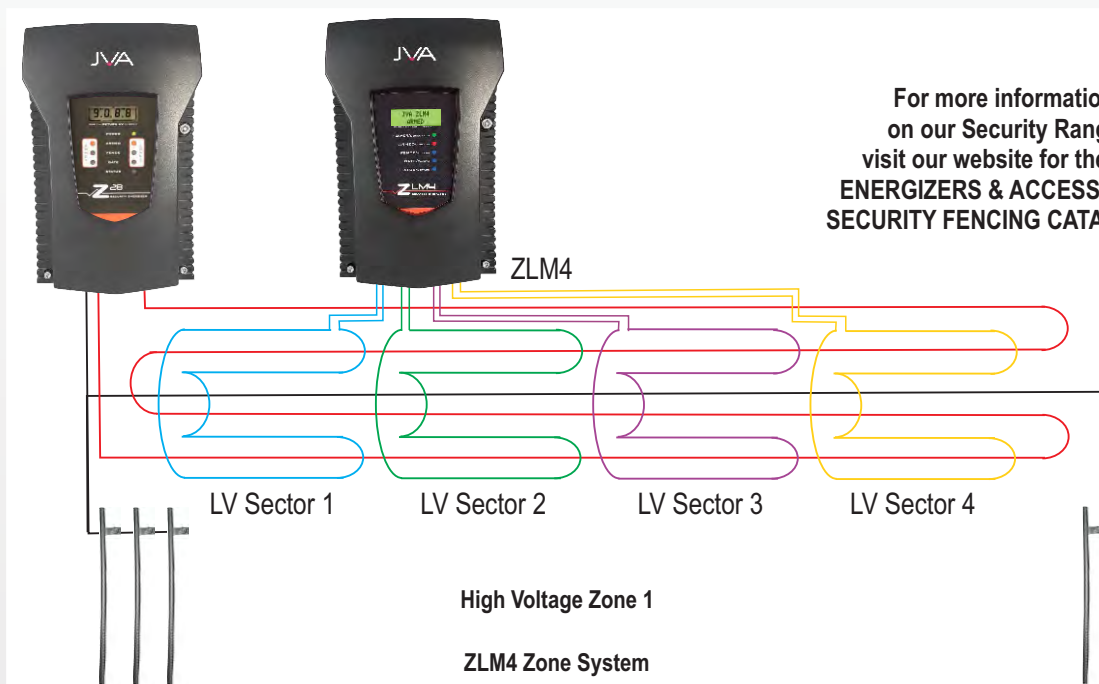
Input Readings



Feed LED

Output Readings

JVA ZLM4 LOW VOLTAGE MONITORING SYSTEM



For more information on our Security Range visit our website for the full ENERGIERS & ACCESSORIES SECURITY FENCING CATALOGUE



The ZLM4 is a 4-Zone, low voltage, electric fence monitor. The ZLM4 may be used by itself or in conjunction with a number of high voltage security electric fence energizers. The ZLM4 monitors up to 4 loops of fence wire, each up to several hundred meters long, to detect someone tampering with the fence by cutting or shorting the wires.

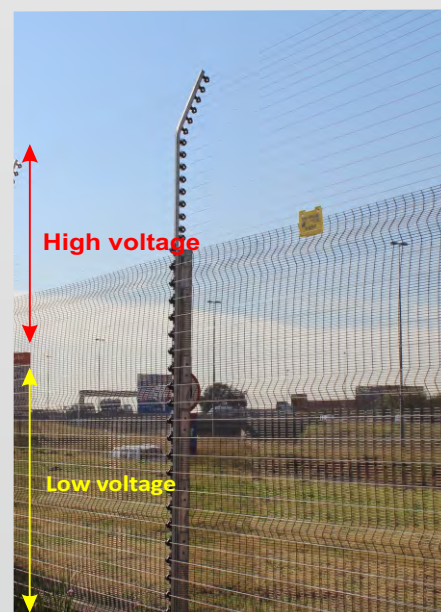
When used in conjunction with a high voltage electric fence energizer, the ZLM4 is wired to the non-energized earth wires on the fence. In this way, the ZLM4 can be used to split one high voltage zone into up to 4 low voltage monitored zones for improved targeting of the response to potential security breaches.

The ZLM4 is compatible with the JVA Z-Range energizers. It may be connected via a keypad bus network with other Z-Range devices to enable the whole group to be controlled via one keypad, or linked to a PC running JVA Perimeter Patrol software. The ZLM4 monitors a low voltage loop using intrinsically safe, isolated ELV DC. It employs a continuity check for detecting open circuits; DC voltage level sensing, to detect a short to ground; and pulse voltage sensing, to detect a short to a line powered by a high voltage fence energizer. The advanced features of this device allow the performance to be tuned to the fence and to the particular requirements of the site.

This is done by adjusting the device's programmable options. The ZLM4 will report an alarm on: detecting a low voltage loop cut (open circuit); shorted to ground (short); when high voltage from an electric fence energizer wire is shorted to the monitored low voltage loop; or when two low voltage loops short to one another (cross couple).

Features:

- Can be used to split a single security electric fence zone into up to 4 low voltage sectors
- Can detect a short, cut, or if the monitored wire is touching a high voltage wire
- Optional LCD display — displays which zone is in alarm and other information
- Controlled and programmed via a JVA Keypad with similar codes to the JVA Z-Range
- Able to be integrated into third party access control and security information management systems at a variety of levels
- Enables the construction of systems from economical key switch operation to complex PC controlled applications
- Runs from 16Vac or 12V DC external source
- Built-in Battery Charger for optional 7Ah back up battery
- Siren and Strobe switched 12V DC outputs for stand-alone operation
- 2 Control Inputs and 4 Relays with many programmable functions for low level integration with other systems
- Fence connections are fully isolated from power and IO as per relevant cause of IEC SANS 60335.2.76.



ZLM4 Used to Make Fence IEC 60335 / SANS 10222-3 Compliant

JVA ZM20 & ZM50 SECTOR FENCE MONITORING SYSTEMS



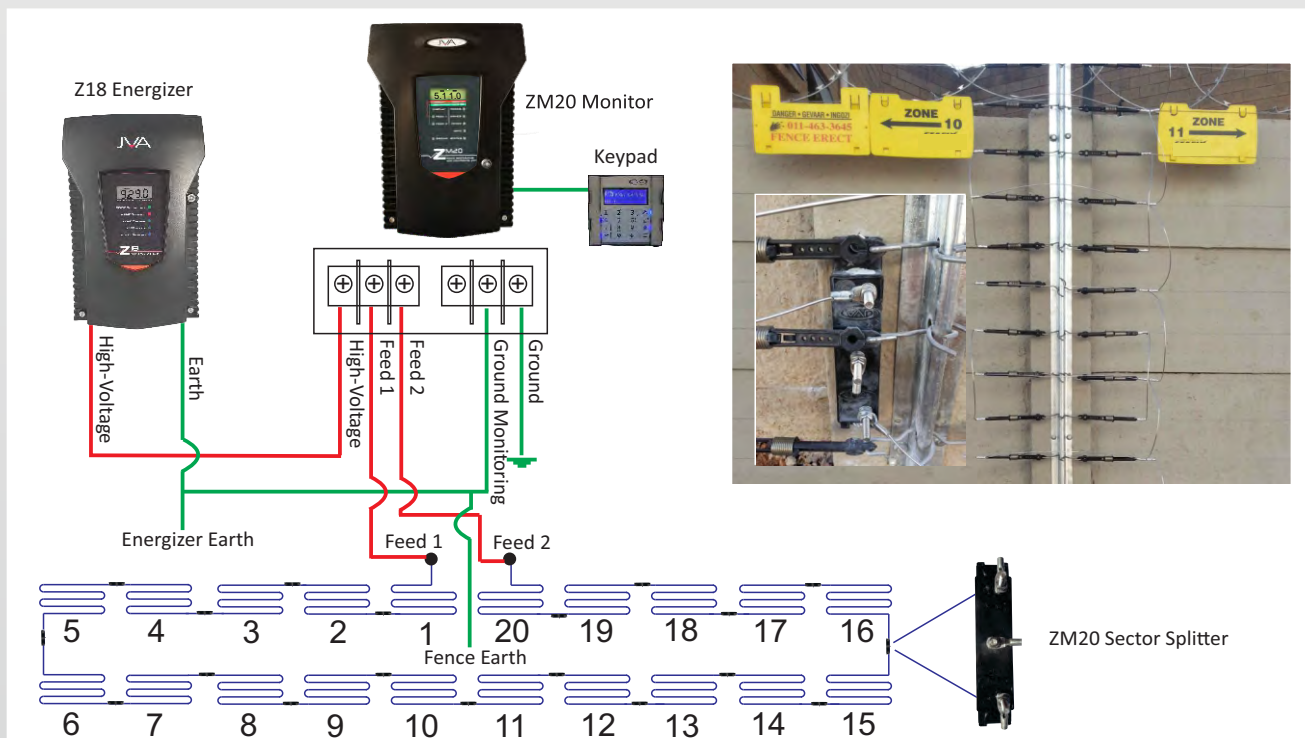
JVA ZM20 & ZM50 Monitors

The JVA ZM20 and ZM50 are advanced security electric fence multi-sector monitoring systems, enabling the partitioning of an electric security fence into 20 or 50 programmable sectors. This ensures accuracy in detecting the locality of a fault on the fence line which in turn allows for quicker targeted responses and/or better camera positioning.

These systems are ideal where multiple energizer placement at a site is not possible. A single energizer in one location can then partition a single high voltage zone into 20 or 50 manageable sectors.

Features:

- TCP/IP Connectivity with optional LAN Interface Board
- Reduces the cost of multi-zone systems
- Accurately divides a High Voltage Fence Zone into up to 20 or 50 Sectors
- Is able to be monitored via Keypad or a PC, using Perimeter Patrol Software, or any Web enabled device, with the addition of a JPAE212 Web Server. With e-mail, alarms are able to be integrated into third party security management systems at a variety of levels
- Dual HV Feed, increases deterrent and reduces the effect of a cut wire
- The JVA ZM Monitor can be powered by any JVA electric fence energizer
- Monitor 1 – 20 or 1 – 50 fence loops up to 8km wire length or maximum loop resistance of 1000 ohm
- 2 – 20 or 2 – 50 Programmable Sectors
- Cut or bridge alarm on sudden reduction in current
- 3 Programmable dry contact control relays
- Siren and Strobe switched 12V DC outputs
- Built-in charger and space for a 12V 7Ah backup battery.

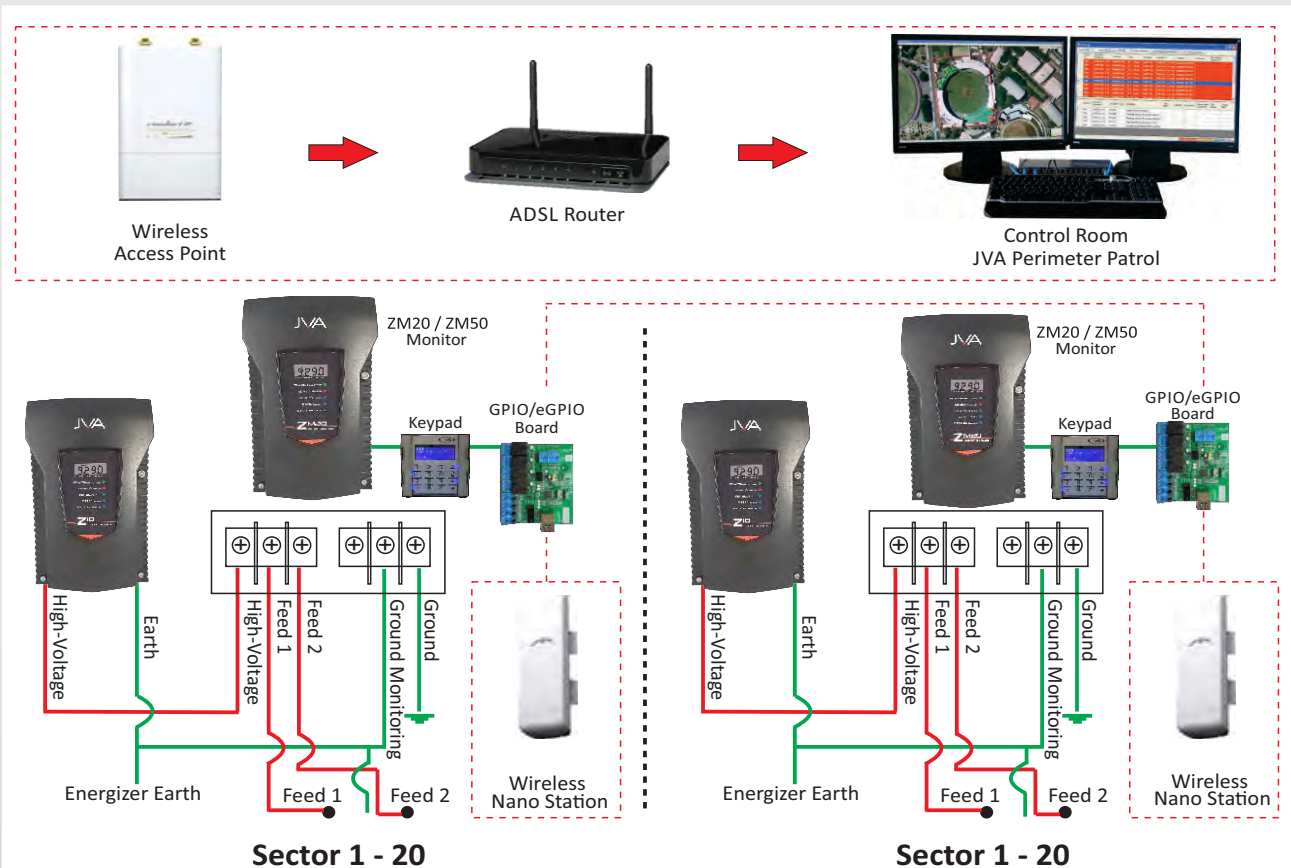


JVA ZM20 & ZM50 MULTI-ZONE, MULTI-SECTOR SYSTEMS

JVA ZM20 & ZM50 Monitors

On larger sites consisting of multiple networked energizer stations, the ZM20 and ZM50 can further divide the individual energizer zones into multiple sectors.

This improves detection as high voltage zones are broken up into smaller more manageable sectors. The energizer stations would then, through the LAN, (Local Area Network), be networked back to the control room to the PC Perimeter Patrol Management System. Through the use of a WAN, (Wide Area Network), the JVA High Level Interface (HLI) can further integrate the system into an offsite, multiple site, management system for a larger control centre set up.



JVA PERIMETER PATROL

JVA Perimeter Patrol

This Perimeter Patrol Software is ideal for a stand-alone system, where the user requires a visual representation of an electrified enclosure (mimic screen) and the ease of operation that a Windows compatible GUI application can provide. It can also be integrated into existing systems using RS232, RS485, Fibre Optic Cable, Wireless Communication and Local or Wide Area Network protocols. The JVA Perimeter Patrol Software Package enables one or more energizers to be monitored and controlled from a PC.

JVA Perimeter Patrol can be used quickly to view the status and voltages of electric fences and devices; alert and email the user when the fences, gates or other devices need attention; arm and disarm electric fences according to a custom schedule and remotely access electric fence systems. Icons representing the energized zones are positioned over an image of the site map. Status and voltage information from the various zones throughout the site are updated in real time from a remote or central location. The PC speaker or external *Input/Output* Interface Board can be used to generate an audible alarm.



Dual Screen Perimeter Patrol Setup

JVA Perimeter Patrol High Level Interface

The High Level Integration Program (HLI) allows the user to take control of multiple Perimeter Patrol Sites and display all the sites on one control room screen. This is ideal for offsite management. JVA HLI is a server which accepts incoming connections from multiple remote Perimeter Patrol sites and sends information back to them. In order to have high level integration, the JVA Range of devices must first be able to communicate with a JVA application such as a Perimeter Patrol running on a Windows based PC.

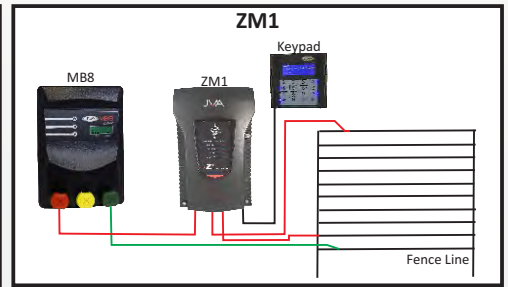
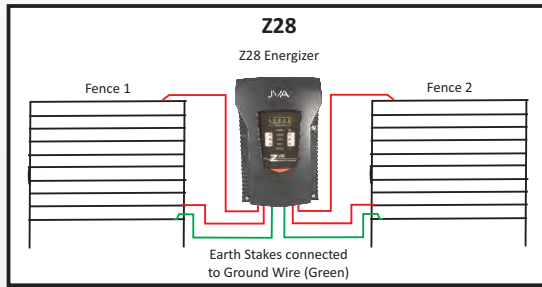
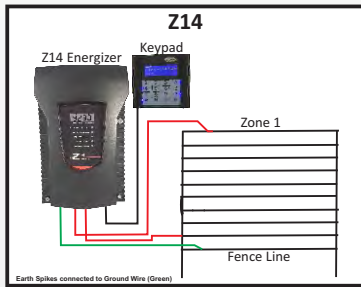
HLI Integration options available include a DLL based Software Developer's Kit (SDK) with documentation and basic control demo Windows Form application and OPC which will enable any third party OPC compliant GUI to access and control connected Z-Series devices. For the systems integrator, the DLL approach is the fastest and most flexible method of making live connections between their applications and JVA Z-Series's devices.

The JVA Perimeter Patrol High Level Interface (HLI) allows one to customize, monitor and control JVA Security Electric Fence systems from within one's own software environment. The software connects to the JVA Perimeter Patrol program over an encrypted TCP/IP Connection.

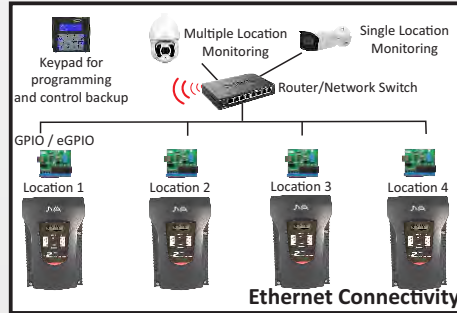
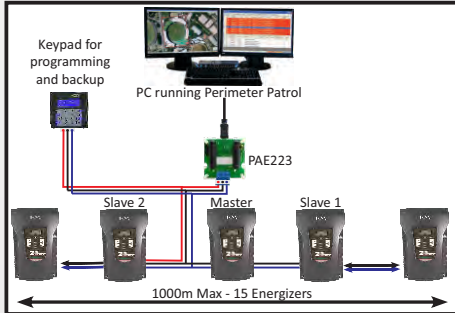


JVA MULTI-ZONE METHODS

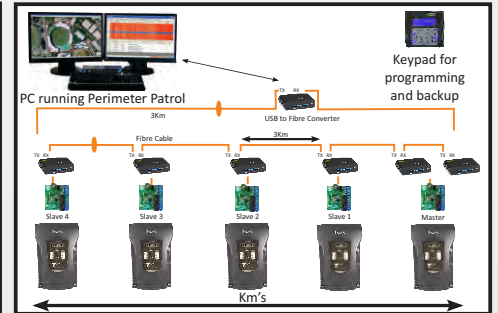
Basic High Voltage Stand-Alone Monitoring Options



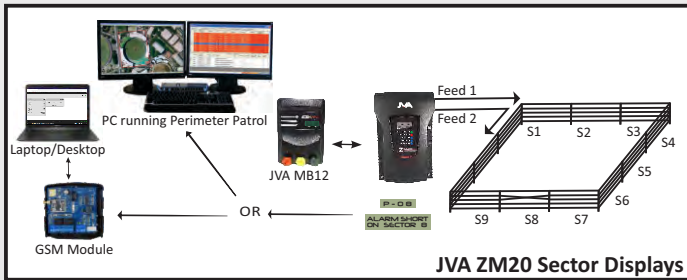
Networking



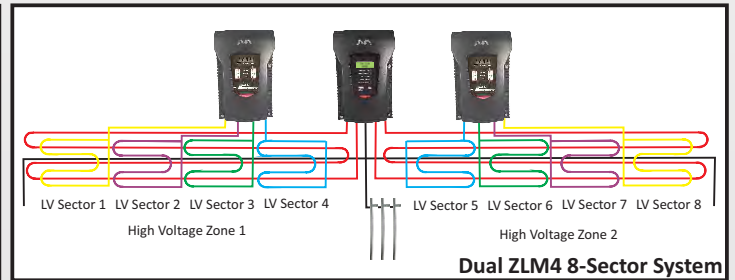
Fibre



Current Monitoring



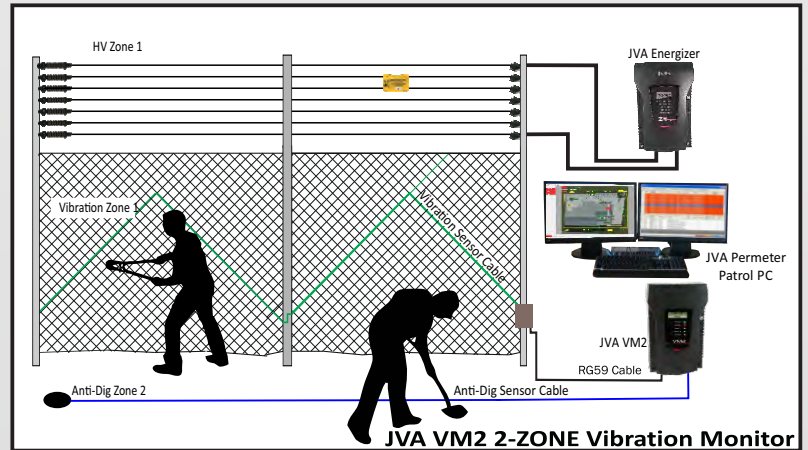
Low Voltage Monitoring



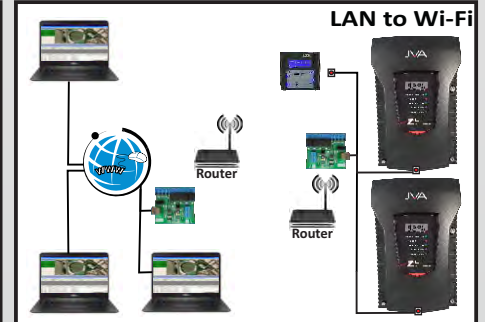
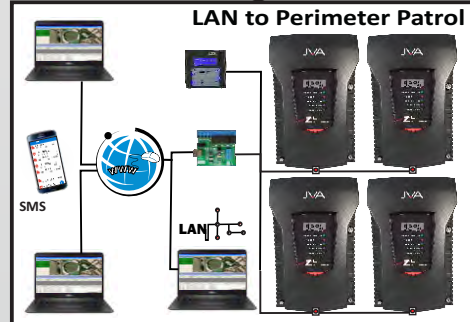
GSM or Wi-Fi Monitoring



Vibration Monitoring



LAN Monitoring TCP/IP



JVA PERIMETER PATROL INTEGRATION FUNCTIONALITY



General Purpose Input Output Board
 Monitors and Controls: 4 inputs, 4 outputs
 PIRs, temperature, pumps, water level, access control, beams, lights, gate control, camera integration

GPIO Board
eGPIO Board – TCP/IP



JPAE224 / JPAE248

Ethernet Adaptor Device
 Connected to single and multiple groups of energizers and monitors

TCP/IP Interface



JPAE212

Perimeter Patrol
 A powerful, flexible, intuitive user interface

Features Include:

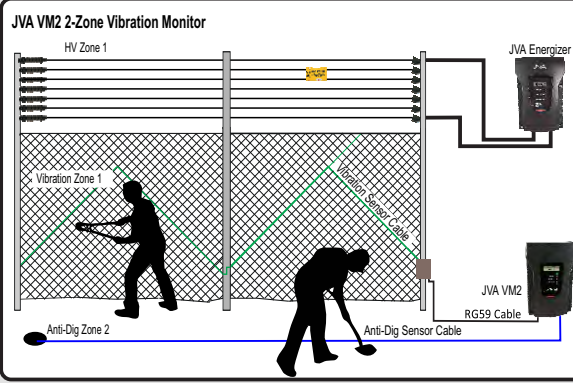
- User Authentication
- Remote Access
- Multiple Site Monitoring
- Event Logging/Archives
- High Level Interface API
- Cloud Backup
- Multiple user access levels
- Quick view screen
- Control on schedule
- Global Site Arm/Disarm
- Individual Arm/Disarm
- Export Event Logs
- Print Event Logs
- Built-in relay controller
- Integration
- Serial Comms
- Ethernet Comms
- Alarm Popups
- Map Zooming
- Custom URL (Hyperlink buttons)
- Server/Client configuration
- Alarm Escalation
- Graphical Log View.



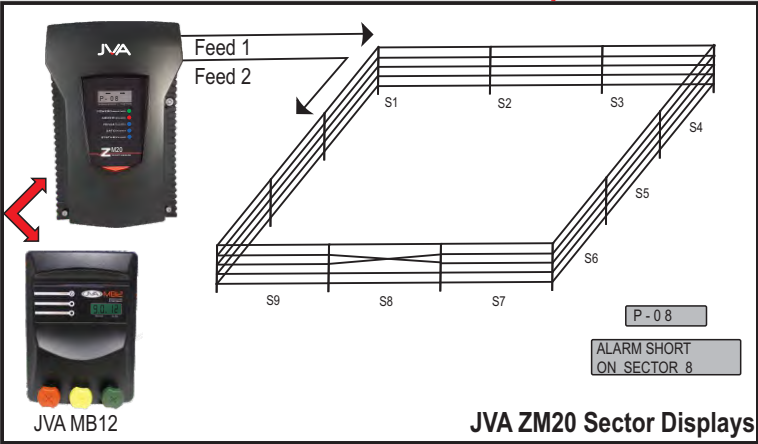
Radio Frequency Interface

Radio Frequency Interface
 Monitors and controls:
 2 inputs, 2 outputs
 Roboguards, PIRs, door sensors, beams, gates, etc.

Perimeter Patrol Management Software
 Real Time monitoring of
 Energizers, Monitors, Cameras, Access Control and Beams



JVA Vibration Detection
 2-Zone Perimeter Intrusion Detection System utilizing Microphonic Cable that can be used above and under ground
 Total distance of 300m per zone



JVA RFI Module

JVA Wi-Fi Gateway Module

Roboguard/RFI Integration

JVA PERIMETER PATROL INTEGRATION FUNCTIONALITY

Redundancy Solution Cloud Router®

The JVA Cloud Router® provides access to your electric fence and other devices in the field through GSM and Wi-Fi. Devices are linked to the Cloud Router® via Nimbus Gateways. The Cloud Router® Solution gives a complete alternate Cloud Based Software solution to run parallel to the onsite Perimeter Patrol system, giving a complete alternate offsite redundancy system.



Site Monitor (Remote)

Enables you to view multiple sites on a simple platform



Cloud Backup

Remote backup of configuration, maps, licence activation, data



Google Earth Integration

Google earth interface, Google Earth Map – import coordinates



HLI – High Level Interface

To enable remote site monitoring and customization



JVA Perimeter Patrol PC

Scada Integration

Customization of Sites

Integration with VMS



SDK Software Development Kit

Enables you to view multiple sites on a simple platform

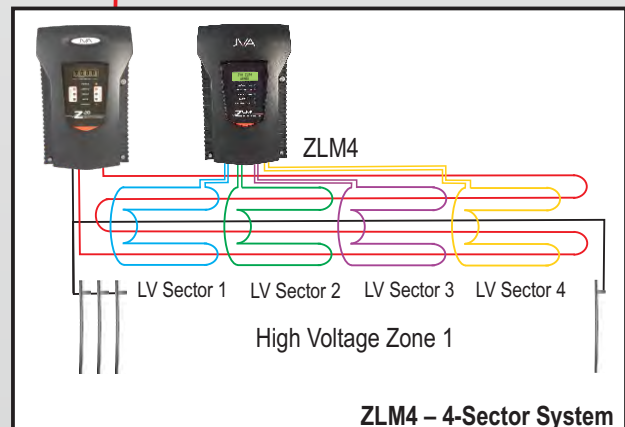
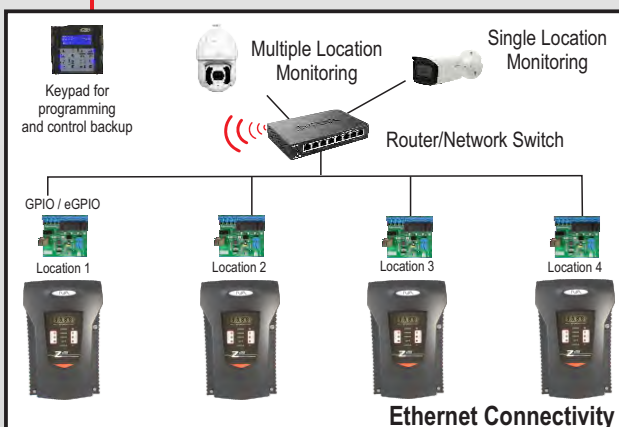
IOT – integration LoRaWAN – integration

TTN - The Things Network





Allows customization onto different platforms

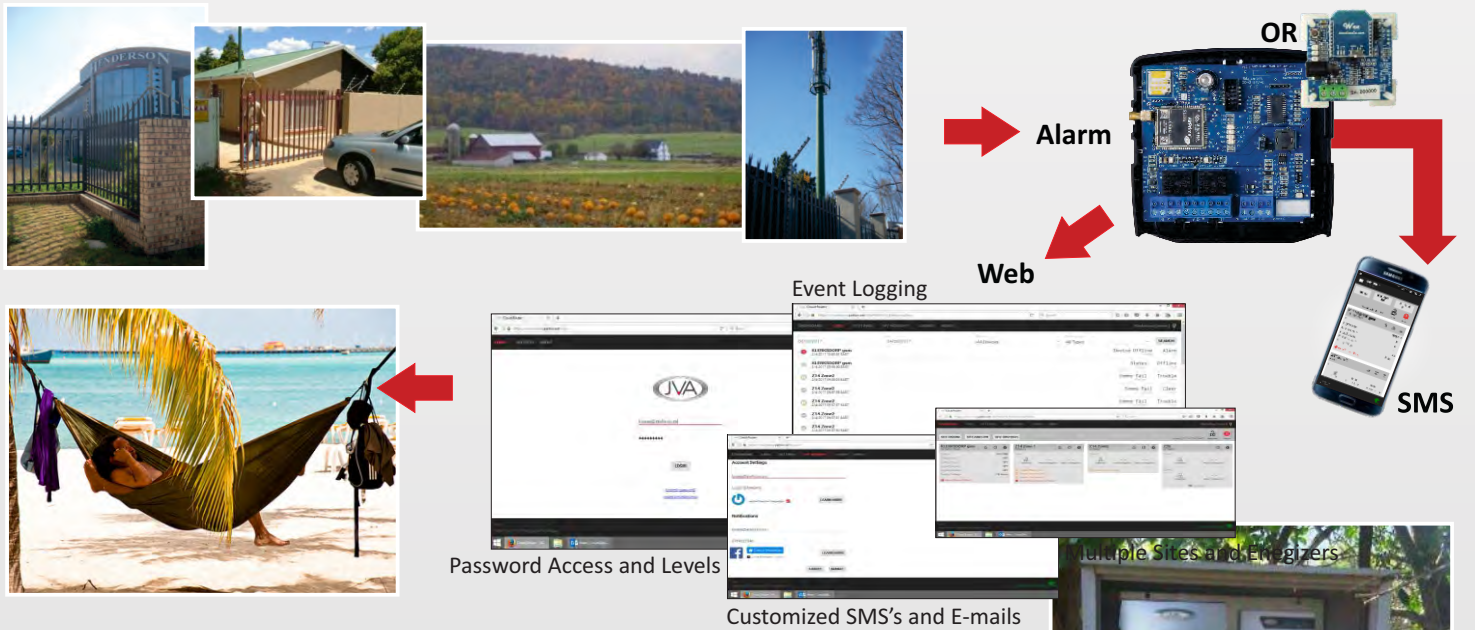
JVA Product Integration



JVA GSM CLOUD ROUTER

JVA's GSM and Wi-Fi module is compatible with all the JVA range energizers. The module is designed to interface seamlessly with JVA's own internet platform to allow the end user to monitor and control his electric fence energizer. More specifically, the end user may log in using his personal user name and password to configure the module to do the following:

<p>JVA GSM Module</p> 	<p>JVA Wi-Fi Module</p> 	<p>Real-Time Notifications. Monitor your sites history with the event log</p> <p>Get email and SMS notifications of alarms as and when they happen.</p>	<p>Site Sharing</p> <p>Share your sites with others, with user access controls</p>	<p>See the State of your Sites at a Glance</p> <p>The overview page shows you the overall armed state of your site and whether there are any active alarms.</p>
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Features:

- Real-Time Notifications – get email and SMS notifications of alarms
- Site Sharing – share your sites with others, with user access controls
- Monitor Site's History – easy search history of events and who had access
- Status of your sites at a glance – will tell you if a site is off line or whether there are active alarms
 - Power supply to energizer
 - Feed and return fence voltages
 - Tamper conditions
 - Gate statuses
 - Battery condition
- Clean, crisp, User Interface on all JVA Devices – displays information you need, whether on your mobile or desktop PC
- A single GSM unit can be connected to up to 14 Z- Range devices
- Two Output Relays (30V DC 8 amps) GSM Module
- Two Inputs – dry contact or active pull down, GSM Module
- Micro Sim Card required GSM Module
- Monthly subscription includes 50 free SMS's and free cloud usage
- There is a Cloud Router Free Pack which will allow a person to merely view a site; view a device
- There are 3 user levels, *Admin/Supervisor/User*
- By using a JVA ZM1, any energizer brand can be brought into the cloud management system.



JVA STANDARD & ANDROID KEYPADS

JVA LCD Menu Driven Keypad

The JVA Keypad is manufactured specifically for the JVA Z-Range of Energizers and Monitors. JVA has simplified functions by having one keypad to operate the full range of JVA Z-Range energizers and monitors from a simple home Z11 system, to a high profile multi-sector system such as the ZM50. The backlit LCD display gives the user, at a glance, all the information that may be required. The keypad displays out and return voltages, date and time, and can be fully customized with custom messages and names for zones and gates: *Front Gate/Back Fence*, etc. The easy-to-use, intuitive, Menu-Driven Interface makes programming and fence setup simple and quick.

Features:

- Easy to use, Menu Driven Interface; no need for manual when programming
- Backlit, 4-Line LCD providing important user information
- 500-Entry Event Log – know when and what occurred on your fence
- Battery backed, real time clock
- Controls, monitors and programs any Z-Range device
- Displays fence voltages, date, time and fence condition
- Simple 3-wire operation
- Battery voltage request display to energizer LCD
- Ability to customize zone and gate names
- 1 – 14 energizers can be controlled from one Keypad
- 1 – 3 keypads can control one energizer.



ZONE 1
Feed: 9.0kV Ret: 8.8kV
All OK

LCD Screen on Keypad

JPTE0240



JVA Android Keypad

The JVA Touch Screen Keypad is manufactured specifically for the control and management of the full range of JVA Z-Range Energizers and Monitors, from a simple home Z11 to a high profile multi-zone ZM50 system.

The seven inch screen gives the user, at a glance, or a touch all the information that may be required.

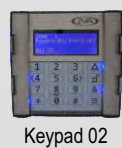


Features:

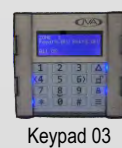
- New easy-to-use graphical user interface, touch screen keypad for the JVA Z-Range
- Provides a menu-driven programming interface for devices: each device can have its unique settings programmed from a drop-down list of possible values, with names and descriptions of each setting available, so installers will not need to refer to a manual to configure a device
- Provides a method of loading and saving site configurations, including device configurations, custom zone names and configurations, individual user permissions and more which means that ZM20 sector programming can be saved and recalled and common setups can be saved and quickly loaded into a new device
- Generates Maintenance Alarms when the site isn't correctly configured – alarms can be sent to a user via email or SMS by utilising the built-in Wi-Fi connection (version dependent)



Keypad 01



Keypad 02



Keypad 03



Unit 01



Keypad 01



Unit 01



Unit 02



Unit 03



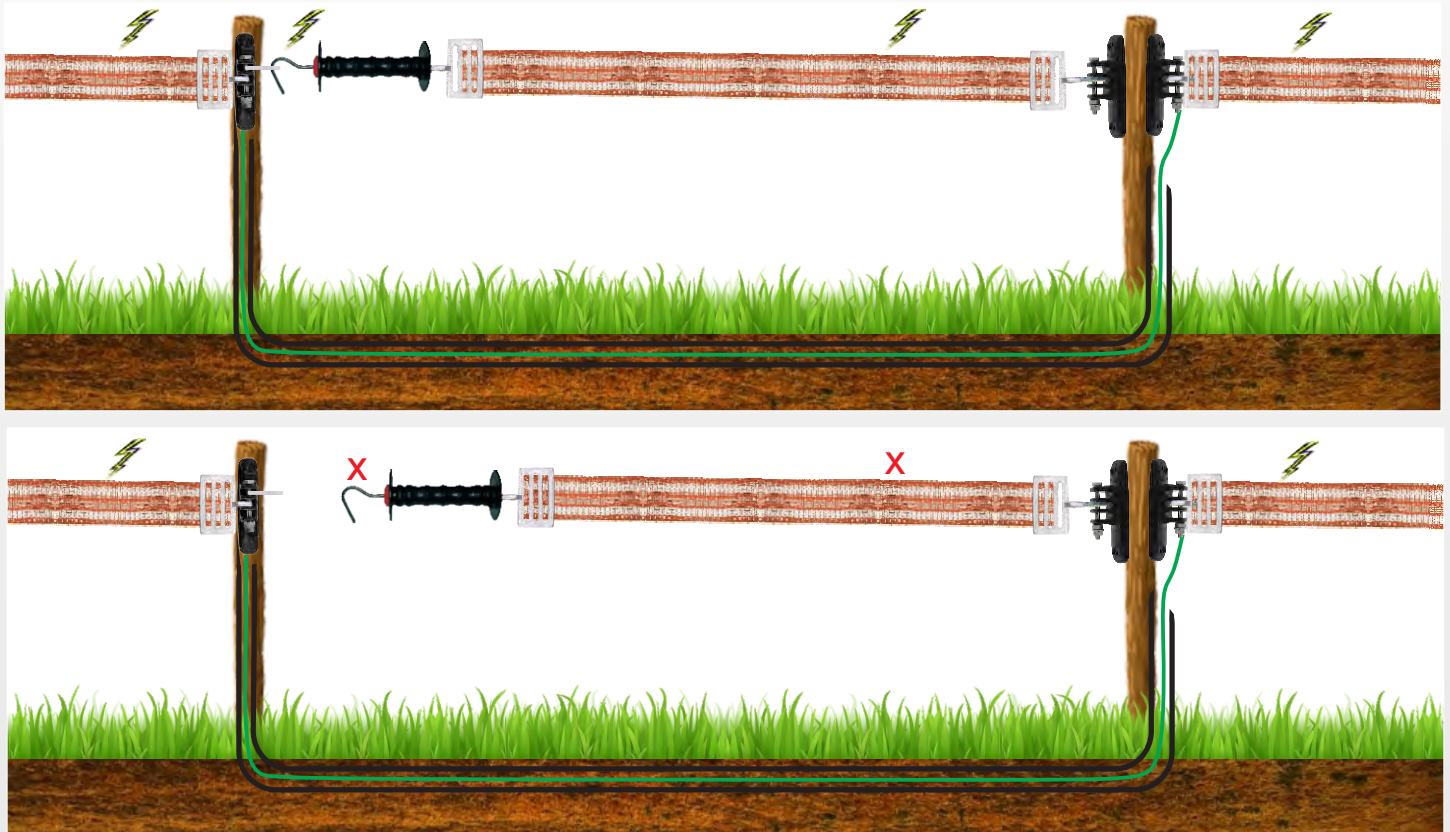
Unit 04



Unit 14

GATE CONTACT OPTIONS

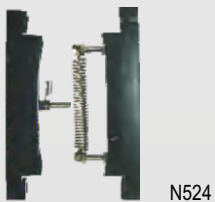
Agricultural Gate



Security Gate Options

Series Gate Contact (SANS 10222-3:2006 Compliant)

The level of security and the quality of the gate will determine the choice of gate contact.



Standard Parallel Gate Contact



Econo Series Gate Contact



Slide-Across Series Gate Contact



a. In-Line Series Gate Contact



b. In-Line Mounting Bracket

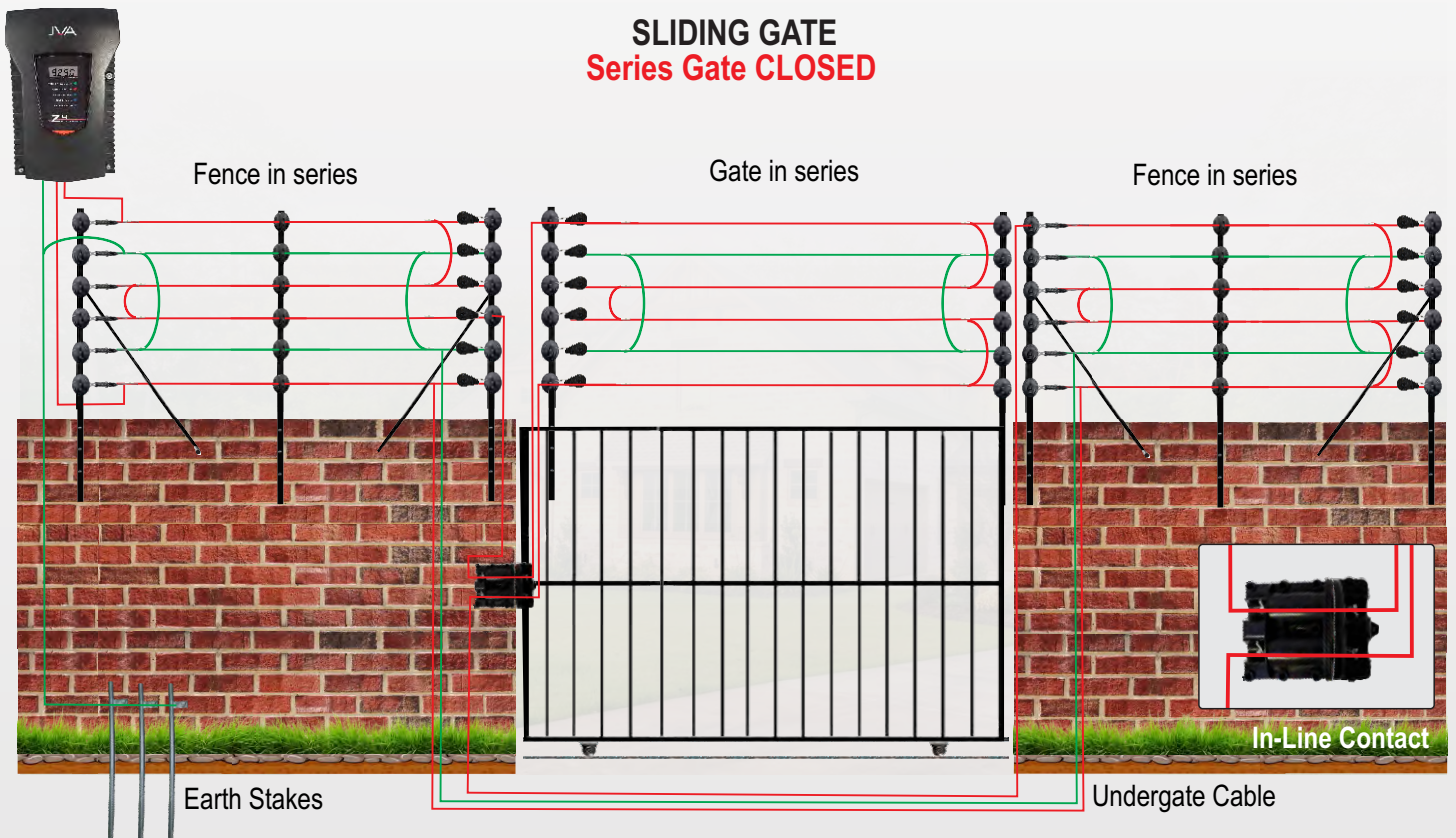


a+b. In-Line assembled Gate Contact

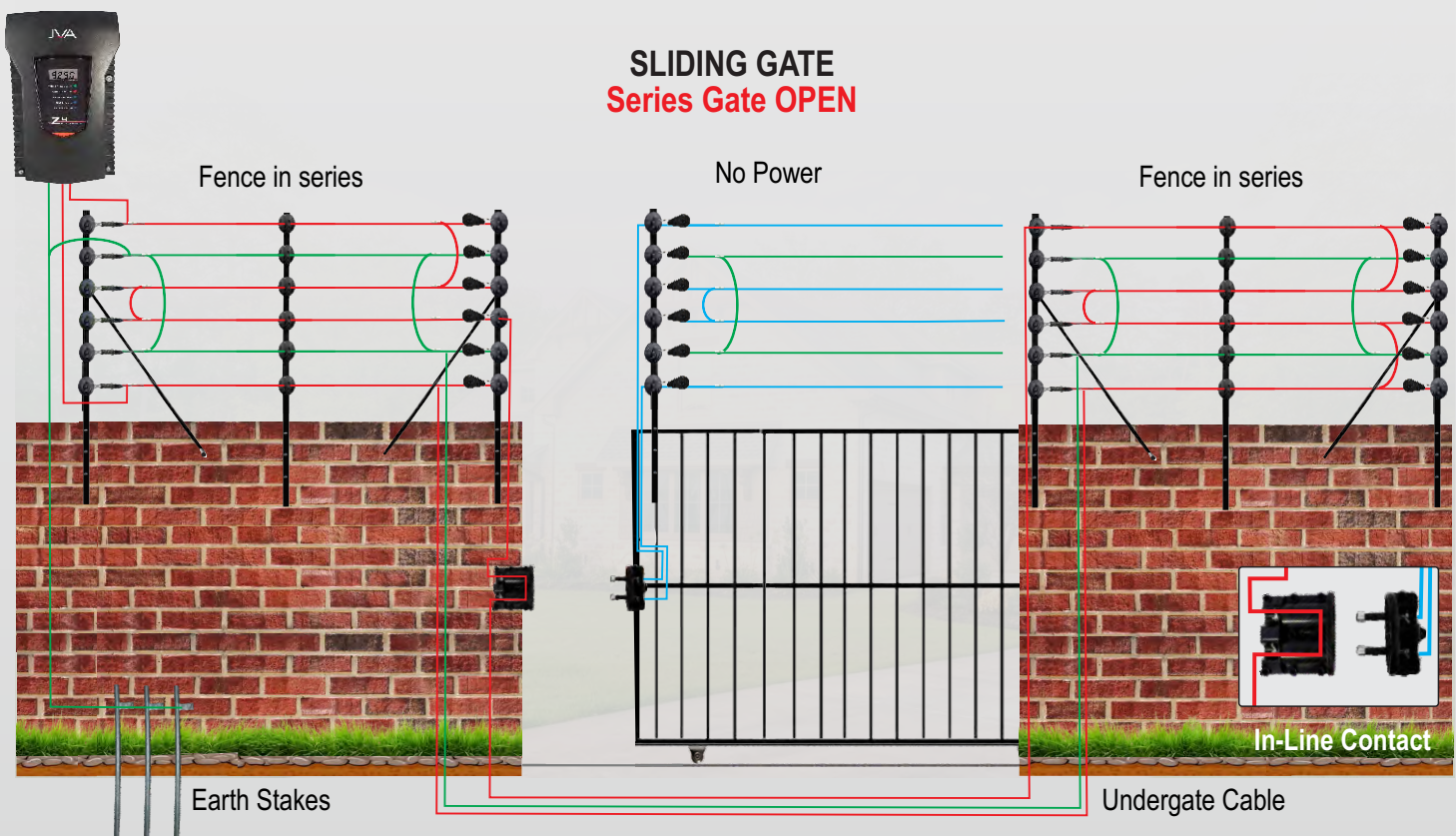


GATE CONTACT OPTIONS

The diagram below illustrates a gate-top fence circuit when the gate is CLOSED. Here the gate In-Line Contact enables the gate-top circuit to be an integral part of the over-all fence circuit. Cutting the wires or interfering with the gate will break the circuit and trigger an alarm.



The diagram below illustrates a gate-top fence circuit when the gate is OPENED. Here the current from the fence will pass through the gate contact and under the fence to complete the circuit and allow access.



To detect an intruder forcing the gate open, a Mag Contact linked to the energizer gate alarm, can be installed to monitor the gate status.

FREE-STANDING POLES, POSTS & STANDARDS



Electro Palisade

- As the name implies, this is palisade with a bite
- Custom built, hot-dipped galvanized, or painted palisade
- Specially designed insulators enable one to electrify and monitor the palisade fence

Weldmesh Panel

- Anti-climb and Anti-cut
- Transparent Wall for camera surveillance
- Corrosion resistant
- Easily installable
- Available in Black powder coating finish (other color options are made to order)
- Aesthetically appealing
- Meets or exceeds BS and SANS standard
- Available in various heights

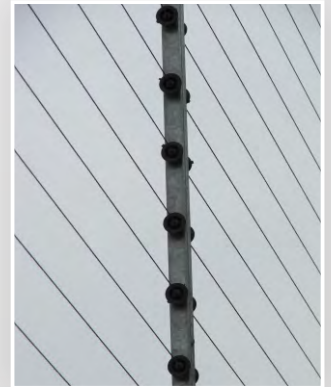


Trip Standard

- A trip standard is a short pole for supporting a live and earth strand a short distance away from a game fence in order to deter animals before they come into contact with the main electric fence.
- A trip wire should be placed strategically to stop problem animals such as warthogs before they storm the existing fence, or start digging through. Very useful for crawling game such as lions, pigs, cheetahs and wild dogs.
- Where lions cause the biggest problem, the fence can be adjusted by planting a 1.5m Y-standard, extended 900mm above ground level.

JVA Big Hole Y-Standard

- This strong, custom manufactured standard has larger holes punched through it to take the plastic Pop-Em and JVA Y-Standard insulator
- With the Pop-Em insulator, the wires run through the Y-Standard which makes it difficult to push them apart
- Available in 2.4m and 3m lengths and in black or galvanized



Rolled Profile Standard

- This lighter, hot-dipped, galvanized profile can be used with Pop-Em or Y-Standard insulators
- Supplied in 1mm or 2mm thick rolled steel
- Can be used to reinforce palisade, or as a light, intermediate, free-standing standard
- Available in 0.9m to 3m lengths



Conventional Fence Products

While Stafix Security Centres do not hold all types of conventional materials ex-stock, they can, should quantity warrant it, supply and deliver to site at very competitive prices, conventional fencing materials such as field fencing, Bonnox, mesh, ClearVu, barbed wire, standards, etc.

HOW TO STRAIN A CORNER POST

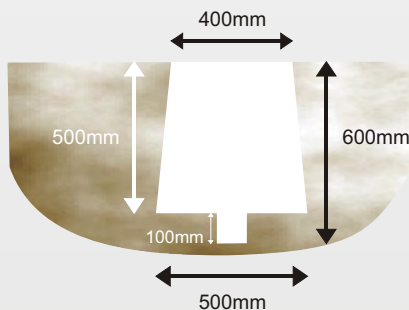
How to Strain a Corner Post

- Straining posts are the foundation of a good fence.
- Posts must be rigid & sturdy and well set into the ground and well anchored.
- The force of the wire tension of a 24-strand security fence can exert as much strain as 2.4 tons on the strainer pole. In cold weather this can rise to as much as 3.3 tons.
- Electric fence strain posts need to be positioned at every change in direction.
- Electric fence strain points must never be further than 100m apart.

The Perfect Strain Post

The ideal hole for a post should be 400mm x 400mm on the surface broadening downwards to 500mm x 500mm at the bottom, (soil dependent).

A small hole, the same diameter as the post and 100mm deep, should be dug in the centre of the bottom of the hole.



The post is placed in the small hole and held upright while a mix of cement, sand and stone, in the ratio of 1 : 2,75 : 4,25, is poured in and consolidated well.

The text book mix would be 50kg cement, 90ltrs sand and 140ltrs stone. In reality most installers use two bags of ready mix and a bit of filler such as bricks and stones.

The concrete must be built up slightly above the ground in a cone shape to shed rain water. Only after four days is the post really ready to be subjected to wire strain.

The advantage of the concrete base is that the tension is spread over a greater area and is directly transmitted to undistributed soil at the sides of the hole.

Note:

The post is placed in the small hole to allow moisture present in the pole to drain out into the earth.

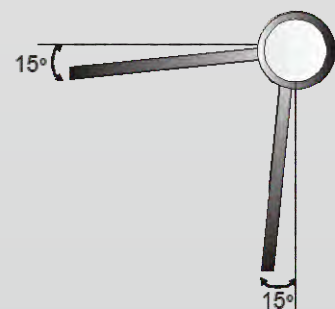


Straining Corner Posts

- All strain posts on an electric fence need a stay post on the sides from which wire is to be tensioned.
- Stay posts must always be inside the boundary to prevent the stay being used as a ladder.
- Traditionally, stay posts are placed at 180 degrees or 90 degrees to the strain post.



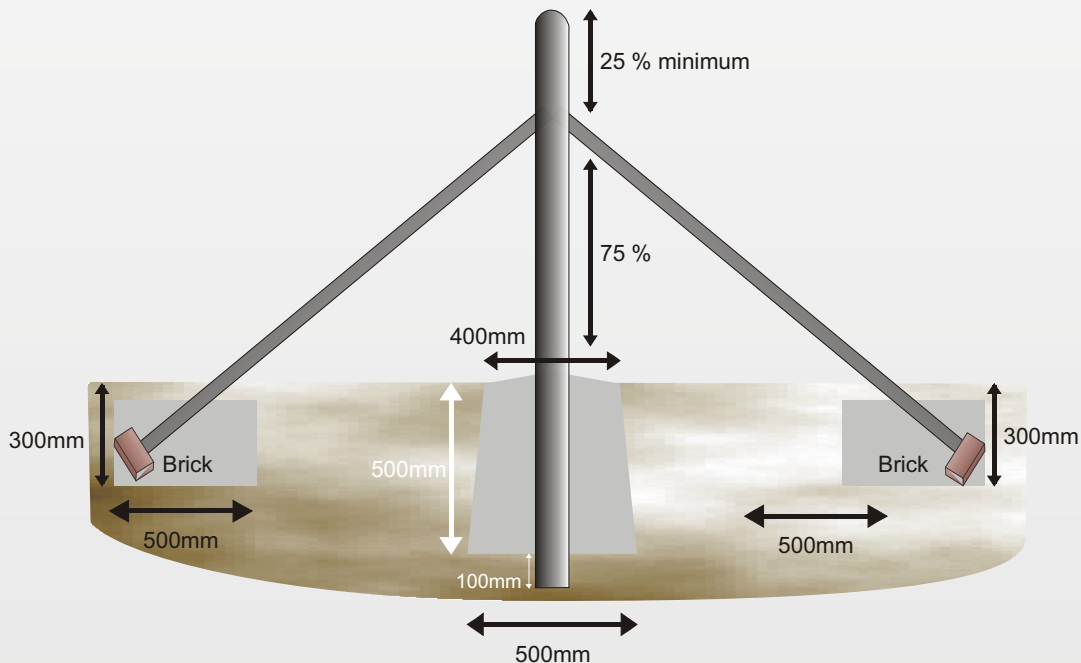
- With electric fencing, due to the live wires being tensioned off the strain post, the stay pole needs to be positioned at about a 15 degree angle inside the fence.



HOW TO STRAIN A CORNER POST

Straining Corner Posts (Continued)

- The stay should be positioned at least 25 percent of the distance from the top of the pole towards the ground. Any higher will cause the wires to pull the post out of the ground.
- A brick or stone can be used as a brace for the stay posts when concreting it into the ground.



Stafix Security Centres provide ex-stock galvanized 95mm x 2mm steel posts pre-drilled for your convenience with S-hook holes at 10cm intervals. The posts are provided in two designs, one for corners and one for straining in a straight line.



Corner Post

The corner posts have S-hook holes drilled at 90 degrees in order to take the corner.

Y023PD - 2.4m Double Hole
Y024PD - 3m Double Hole

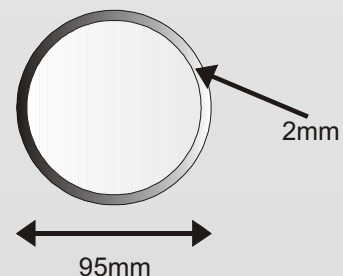


Intermediate Post

The intermediate straight line, straining posts have larger holes drilled only on one side of the post, to take two S-hooks.

Y023P - 2.4m Single Hole
Y024P - 3m Single Hole

The stronger the post, the better. It is not recommended to use a post thinner than 95 x 2mm for a full security fence. 50mm x 2mm posts are the minimum size recommended to be used as stay posts.



The galvanized posts will last much longer as the zinc withstands corrosion better than steel, forming a protective layer around the steel.

JVA COASTAL RANGE OF PLASTIC BRACKETS



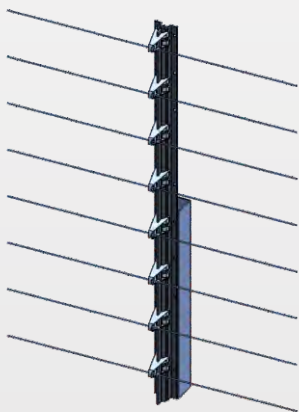
The JVA R&D team has solved one of the worst problems faced by home owners in coastal areas. Salt deposits on electric fences can lead to arcing and false alarms, not to mention rusting and failure of metal fittings. The solution is our new range of extruded and moulded plastic brackets.

These state-of-the-art extruded profile brackets can be used to reinforce palisade and are ideal for matching and reinforcing modern welded mesh ClearVu type fencing. The insulators clip into place easily and can be used with a variety of wiring configurations.

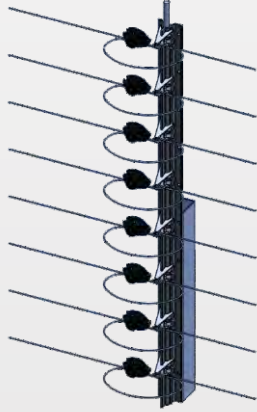


For more information on our Nylon Polymer Range visit our website for the full COASTAL BROCHURE

JVA Extruded Profile Standards



CODES: ALP4 – ALP30



CODES: ALP4C – ALP30C



JVA EPX Intermediate Profile

This bracket can be used as an intermediate post with the N902 Intermediate Insulator and N908 Pin fitted. It can also be used as a straining post in conjunction with N902S Strain Insulators and N908 Pins. When used as a strain post, it is recommended that the post be reinforced with one meter lengths of 10mm 304 grade, stainless steel inserts to strengthen the post further when under tension.

Available in: 4,6,8,10,18,21,24 and 30 wire spacings.

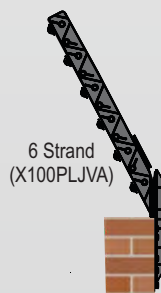
JVA EPX Corner 90° Profile

This bracket, used in conjunction with the N902 Corner Strain Insulator, is the ideal straining point for the inside of a 90° corner of a conventional, square-tube fence post. The post can be further reinforced with 1m x 10mm lengths of 304 grade, stainless steel rod.

Available in: 4,6,8,10,18,21,24 and 30 wire spacings.

Option 1

Mounted angled on the inside of a wall using the reverse mount bracket



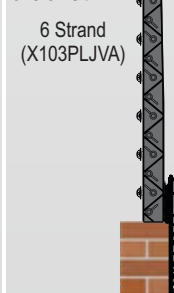
6 Strand (X100PLJVA)



Reverse Mount Bracket

Option 2

Mounted vertically on the inside of a wall using the reverse mount bracket



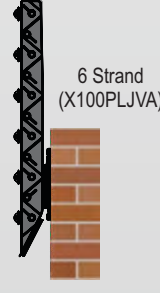
6 Strand (X103PLJVA)



Reverse Mount Bracket

Option 3

Mounted vertically on the outside of a wall using the small bracket



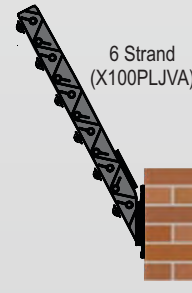
6 Strand (X100PLJVA)



Small Bracket

Option 4

Mounted angled on the outside of a wall using the small bracket



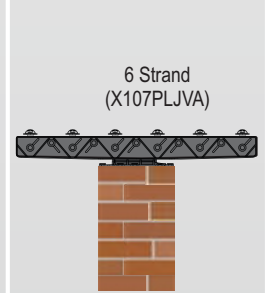
6 Strand (X100PLJVA)



Small Bracket

Option 5

Mounted horizontally on the top of a wall using the small bracket



6 Strand (X107PLJVA)



Small Bracket



Available in Strands:

	5	6	7	8	9	10
Option 1		x	x	x		x
Option 2	x	x	x		x	
Option 3		x	x	x		x
Option 4		x	x	x		x
Option 5		x	x	x		x

WALL-TOP BRACKETS & STAYS

Stafix Security Centres has a well-equipped, steel fabrication factory and powder-coating plant. These facilities enable us to, quickly and economically, manufacture our standard, or custom-designed, wall-top brackets. Wall-top brackets can be either hot-dipped galvanized or powder-coated, depending on a customer's requirements. Stafix Electric Fence and Security Centres can also custom manufacture aluminum or stainless steel wall-top brackets. Customized orders require approximately seven working days for completion. All Stafix Electric Fence and Security Centres hold a wide variety of wall-top fencing brackets in stock at all times.

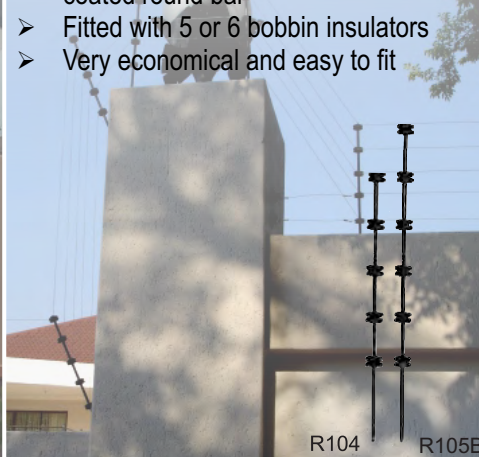
5 & 6 Wire PVC Round Bar

- 10mm PVC coated, electro galvanized round bar
- Available in black or white



5 & 6 Wire Round Bar

- 10mm HD galvanized or powder-coated round bar
- Fitted with 5 or 6 bobbin insulators
- Very economical and easy to fit



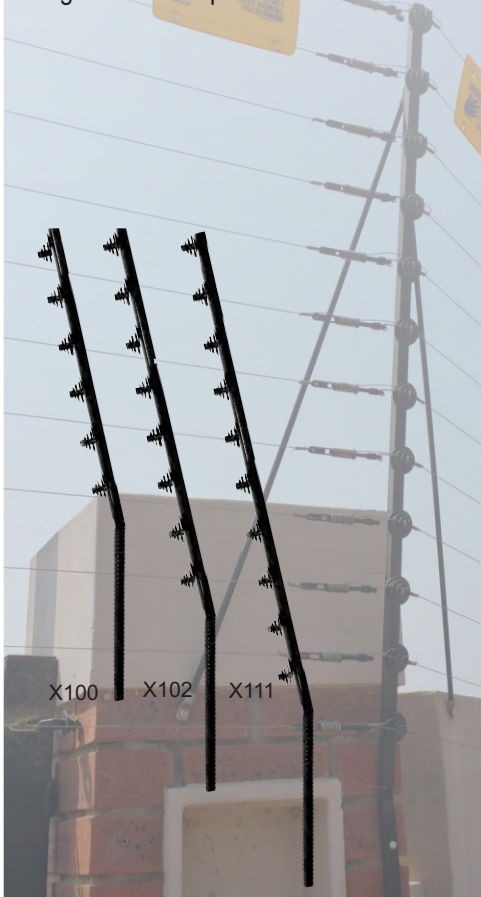
5 & 6 Wire Flat Bar

- 20mm x 5mm flat bar, wall-top brackets
- Available straight or angled, in black or white, powder-coated or HD galvanized



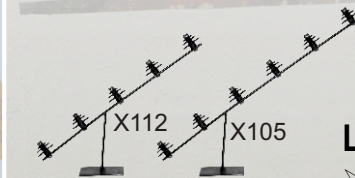
6, 8 & 10 Wire Square Tube

- 20mm square tube wall-top brackets for the more quality-conscious installer
- Brackets can be fitted with black or white Pop-Em, Flat-Bar, or Nail-On insulators
- Can be straight or angled, HD galvanized or powder-coated



5 & 6 Wire Profile Bracket

- For use on flat topped walls
- Angled profile for added security
- Bracket is fitted with base plate for secure attachment to the wall
- Available in black or white, powder-coated or HD galvanized



5 & 6 Wire T-Bracket

- Ideal for an unobtrusive fence on top of a high wall
- Available in black or white, powder-coated or HD galvanized



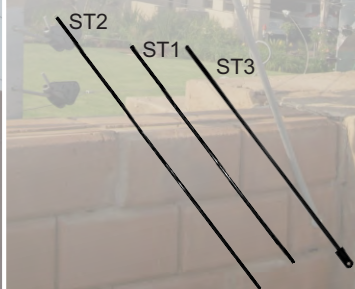
Lug and Stay Clamp

- This lug is fitted to one end of a stay to facilitate attaching the stay to a wall
- The stay clamp is used to attach the top of the stay to a round bar bracket



600mm & 750mm Stays

- 8mm round bar stays are used to stabilize, strain and corner round bar, wall-top brackets
- The stay can be supplied as is, or with a lug welded onto it
- Available in black or white, powder coated or HD galvanized

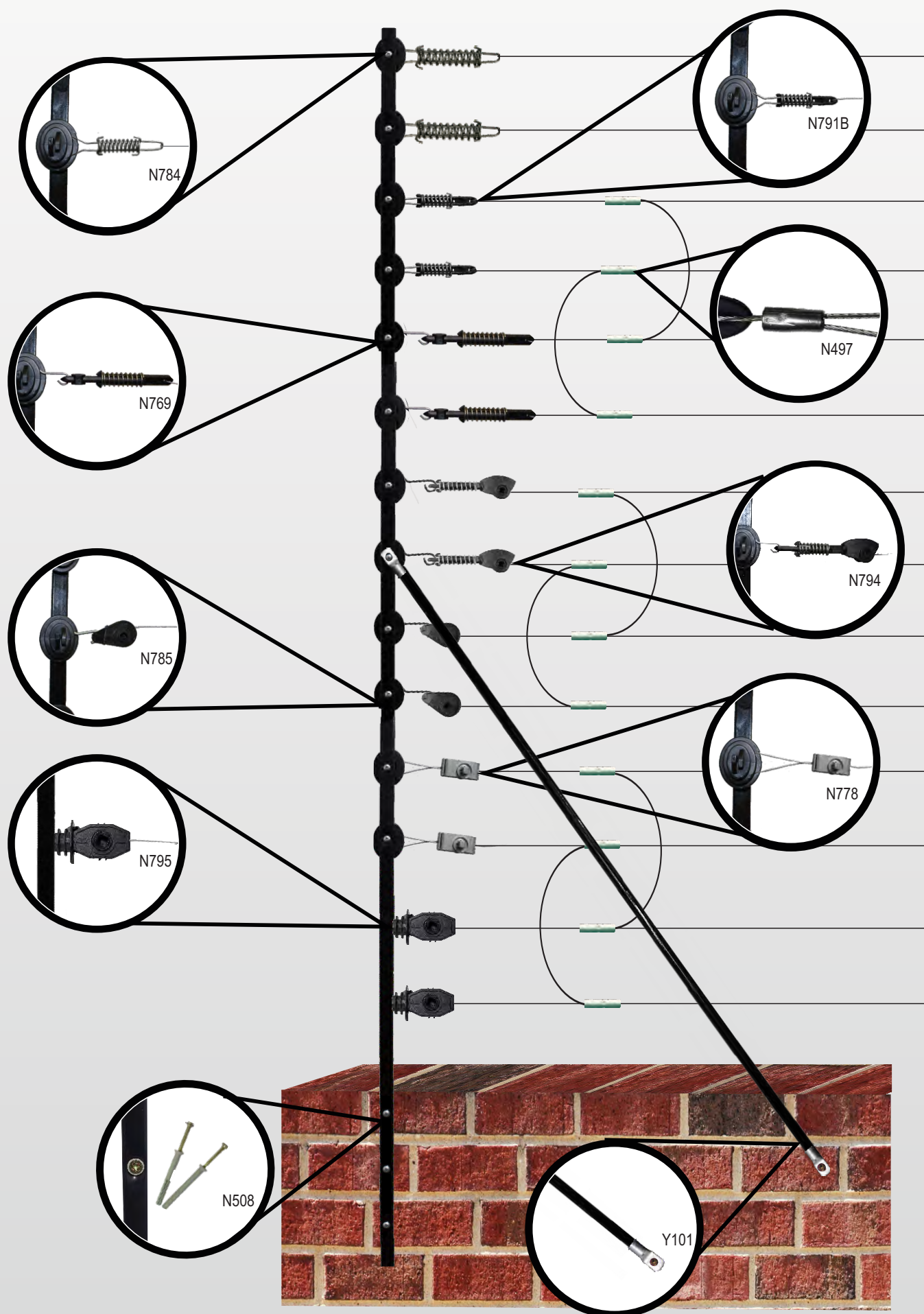


6, 8 & 10 Wire Upside Down Square Tube

- 20mm square tube wall-top brackets for the more quality-conscious installer
- Brackets can be fitted with black or white Pop-Em, Flat-Bar, or Nail-On insulators
- Upside down HD galvanized or powder-coated



OPTIONS AVAILABLE TO STRAIN A WALL-TOP FENCE



JVA ELECTRIC FENCE TAMPER SWITCH

Type A – Wall-Top

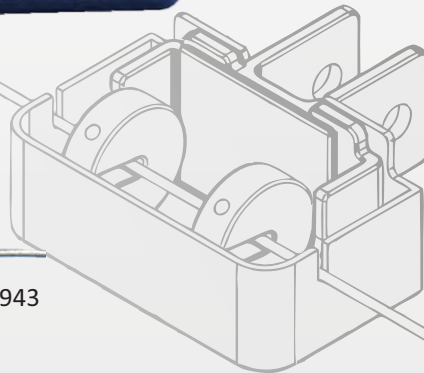


N942

Type B – JVA Profile



N943

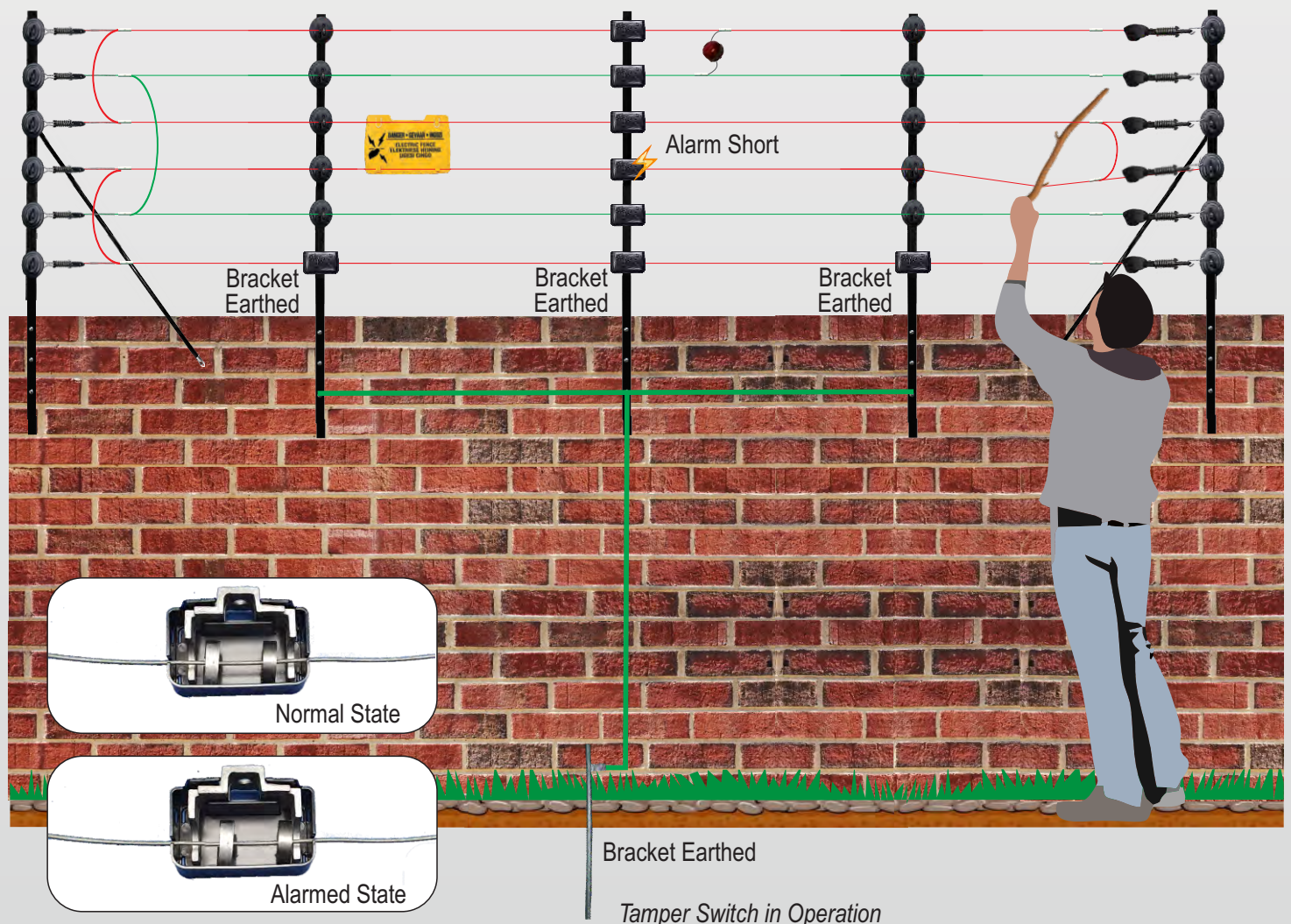


The JVA Tamper Switch is a simple, clever patented product designed to be fitted to new or old fences, to detect when a live wire on an electric security fence line is being tampered with.

This tamper switch will then trigger the fence line voltage monitor which in turn will trigger an alarm (siren, armed response, security lights, etc.) to warn the occupants of a property that their perimeter is being interfered with. (The electric wire may have been cut or forced apart.)

The Switch has adjustable disks which can set the sensitivity of the tamper. Ideally the switch should be centered between two spring loaded tension points. The switch can be retro-fitted to Flat Bar and Square Tube fencing using the Type A Plate and to JVA Profile and JVA Y-Standards using the Type B Plate. Multiple switches can also be used on one post.

Multiple switches can be added in a single strand if higher security is required (see bottom strand below). The switch can be used on HV and LV fencing. The susceptibility to wire movement can be made very sensitive on low voltage fences (ZLM powered), where the arcing of high voltage is less of an issue. It is important to make sure that the post to which the Tamper Switch is attached is earthed to ground.



ACCESSORIES

Strain Insulators



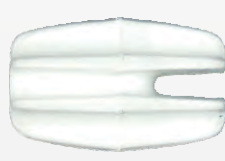
N679

Plastic Jumbo Strain
(UV stabilized plastic)



N678

Jumbo Strain Security
(Hardened plastic for higher tensioning)



N681

GFT Strain
(Glass fibre, DMC fire resistant)



N676

Porcelain Bullnose Strain
(Fire-proof)

Intermediate Insulators



N671

Plastic 10mm Round Bar Bobbin
(UV stabilized plastic)



N683A

Gate Strain and Combi Bobbin
(UV stabilized plastic)



N687

Porcelain Bobbin
(Fire-proof)



N686

N685

Large and Small GFT Bobbin
(Glass fibre, DMC Fire resistant)



N673E

Export Nail-On
(UV stabilized plastic)



N673

Nail-On
(UV stabilized plastic)



N690

Y-Standard
(UV stabilized plastic)



N690JVA

JVA Y-Standard
(UV stabilized plastic)



N672B

Flat Bar Bobbin
(UV stabilized plastic)



N689B

20mm Anti-Twist Flat Bar Bobbin
(UV stabilized plastic)



N691

Pop-Em 19 — 25mm
(UV stabilized plastic)



N691-2P (50mm)

HD Pop-Em 25 — 55mm
(UV stabilized plastic)



N521

GFT Buzz Bar
(UV stabilized plastic)



N697

4mm Insulator
(UV stabilized plastic)



N698S-SL

N698SL

Ring Insulator LD
(Wall-mount or square tube mount screws supplied separately)



N698S

N698

Ring Insulator HD

ACCESSORIES

Free-Standing Fence Wire Tensioners

(1.6mm – 2.24mm wire)



N770P

Plastic Combi
(Hot-dipped galvanized or 304 stainless steel)



N775 / N755P

N771 / N771P

GFT/Porcelain Combi
(Hot-dipped galvanized or 304 stainless steel)



N779D

N778

Mini Donza
(Galvanized or 304 stainless steel)



N760

Atlas
(Hot-dipped galvanized)



N789

Tweaker Tool
(Nylon multi-tool)



N797

Midi-Hook Tensioner
(Nylon 1mm – 1.6mm wire)



N786

Maxi Tweaker
(Strong, nylon quad securing tensioner 1.6mm – 2.2mm wire)



N795

Midi Tweaker
(Nylon flush-mount for walls and square tube)

Wall-Top Tensioners



N784

Security Spring
(304 stainless steel and nylon)



N791B



N769

Compression Nylon Spring
(304 stainless steel)

N769QR



N794

Mini Tweaker Combo
(304 stainless steel and nylon)



N785

JVA Mini Nylon Tweaker
(Ideal for coastal installations)

S-hooks



N780

N781

Combi & Jumbo Strain S-Hook
(6mm hot-dipped galvanized or stainless steel)



N777

Spring Hook
(2.5mm 304 stainless steel)



N790

Mini Tweaker S-Hook
(3mm 304 stainless steel)



N788

Maxi Tweaker S-Hook
(4mm)

Line Clamps

Ensure good electrical connections



N499

Ferrule
(4mm)



N500

Ferrule
(6mm)



N4971

Ferrule
(10mm)



N721S

Mini
(Mech Galv)



N740

Standard
(Hot-dipped)



N742HDG

U-Bolt
(Hot-dipped)

ACCESSORIES

Fencing Wire



Braided Wire
High tensile, low resistance
Available in 1.2mm, 1.5mm and 2mm galvanized, stainless steel or aluminium



N751 - 1.65mm x 1000m
N752 - 2mm x 1000m
N753 - 1.2mm x 2000m

Aluminium Wire
Low resistance
Available in 1 000m rolls in 1.6mm, 2.0mm and 2.5mm



N736
Grades 1 mm – 157m/kg

Stainless Steel Wire
Available in 1mm to 3mm in 304 and 316 grades
1mm — 157m/kg



N737
N738

High Strain Steel Wire
Full range available in light or double galvanized
2.24mm 50kg 1 650m
2.00mm 50kg 2 000m

Under-Gate Cable



N734S - 50m
N730 - 100m
N733S - 200m
N732S 1000m

HT Cable Soft, Slimline
For Wall-Top applications
Available in 50m, 100m, 200m and 1 000m



N734H - 50m
N730H - 100m
N733H - 200m
N732H - 1000m

HT Cable — Hard
For Free-Standing applications
Available in 50m, 100m, 200m and 1 000m



N734L - 50m
N730L - 100m
N733L - 200m
N732L - 1000m

HT Cable Aluminium
Low resistance for long lead outs
Available in 50m, 100m, 200m and 1 000m

Earth Loops (Triggers alarm if fence wires are separated)



Bi-Polar Security Series Monitor Loop
Allows for earth and live monitoring or Bi-Polar monitoring



Intermediate Earth Loop
304 stainless steel or 4mm fully galvanized



Ground or Wall-Mounted Earth Loop
304 stainless steel or 4mm fully galvanized

Earth Spikes



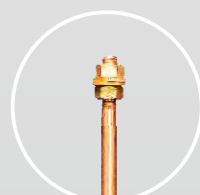
E103 - 1.2m
E101 - 1.5m

Reinforced Bar with Clamp
120cm/150cm
Hot-Dipped galvanized



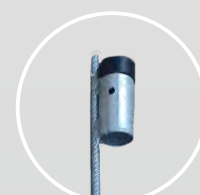
E101

Angle Iron with Clamp
120cm/150cm
Hot-Dipped galvanized



E109

Copper Coated Earth Stake with Clamp
120cm copper-coated

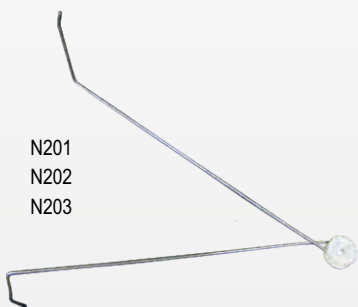


E103-12M-COC

COC Compliant Protected Earth Stake with clamp
120cm Hot-Dipped galvanized

ACCESSORIES

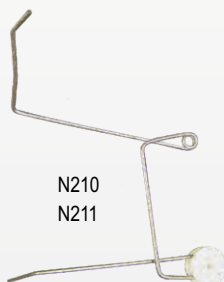
Off-Set Brackets



N201
N202
N203

Single Offset

Available in 225mm, 350mm and 450mm lengths. Also available in 225mm offset to take a Nail-On insulator



N210
N211

Double Offset

Available in 225mm and 350mm lengths



N212
N215 - 225mm
N217 - 380mm

Triple Offset

Available in 150mm/225mm angled or 225mm and 350mm straight

Warning Devices



N704

Flashing Fence Lights



N352

Strobe Light



N527

Siren
(10w/15w - 12V DC)

Customized Signs



N699

Light Duty Wall-Top
Warning Sign
UV stabilized with
double clips



N701

Heavy Duty Free-Standing
Warning Sign
UV stabilized with
double clips

Power Supplies



AA-B9

AA-B7

7/9-Amp/Hr Battery



AA-B9G

AA-B7G

7/9-Amp/Hr Gel Battery



AA-B35

35-Amp/Hr Battery



AA-B17

17-Amp/Hr Battery



AA-56

56-Amp/Hr Deep Cycle



AA-96

105-Amp/Hr Deep Cycle



N513

Plug-In Transformer



AA-B2

2.3-Amp/Hr Battery



AA-B1.3

1.3-Amp/Hr Battery



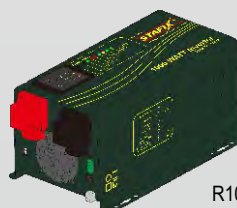
N533A

Stafix B1 Regulated
Charger (light duty)



N536

Smart 15 12V
Battery Charger



R1000

All-in-one Power
Supply and Inverter



N850

UPS Inverter Box
Capacity : 2400 VA / 1440W
Voltage Regulation: 24VDC / 230 VAC

THE LAW AND ELECTRIC FENCING

The Law and Electric Fencing

The laws relating to the supply and erection of electric fencing in South Africa are stipulated in the following documents:

- The Department of Labour's Occupational Health and Safety Act 1993
- The South African National Standard – SANS 60335-2-76:2006 (This relates to manufacture of energizers.)
- The South African National Standard – SANS 10222-3:2016 Edition 5. (This relates to required erection standards.)

The above OHS Act stipulates that, any electric security fence, erected after December 2012, requires a *Certificate of Compliance* issued by a registered electric fence installer. A registered installer is one who is in possession of a *Certificate of Competence* and who is registered with the Department of Labour.

The Following are Some of the Most Important Safety Features Required by the Regulations:

- The Energizer must have a valid *Certificate of Compliance* proving that it complies with SANS 60335 – 2 - 76
- The Energizer must have a valid *Letter of Authority* (LOA) issued by the National Registrar
- You may not electrify barbed or razor wire
- In an urban area, you may not use an energizer that exceeds 8 Joules under any load condition
- A free-standing, electric security fence, in an urban area, must be behind a barrier fence
- The barrier fence must be 1.5m high and 1 dimension of opening not greater than 150mm
- The distance of a barrier fence from the electric fence must be less than 200mm or greater than 1m
- The energizer must have at least 3 x 1.2m x 10mm earth electrodes at the energizer
- Electric security fences or domestic pet control fences (or both) must have earth electrodes inserted at a maximum distance of 30m apart, measured from the energizer or fence connection point
- Game, strip grazing and general agricultural electric fence systems must have earth electrodes inserted at a maximum distance of 100m apart, measured from the energizer or fence connection point
- The minimum height of a physical barrier can be reduced to 1200mm provided that the physical barrier is erected more than 1,5m from the electric fence
- Do not install more than one energizer on a fence unless, in the case of a security installation, the energizers are synchronized
- Warning signs must be spaced at 10m intervals in urban areas and 100m in rural areas
- Warning signs must be placed between 1.5m and 2m above ground level
- Lightning diverters must be installed on both output and return wires
- All joints must be line clamped or soldered
- Live feed-out and return wires must be double insulated and enclosed in separate conduits
- Live wires must not be housed in the same trunking as communication cables (CCTV, video, intercom, etc.)
- Finally, any property with an electric security fence around it, has to be sold with a *Certificate of Compliance* which is less than two years old.

Note:

These are just some of the regulations contained in the standards. For full specifications, copies of the Act and SANS documents should be consulted.



DEPARTMENT OF LABOUR
OCCUPATIONAL HEALTH AND SAFETY ACT, 1993
OCCUPATIONAL SYSTEM CERTIFICATE OF COMPLIANCE
ELECTRIC FENCE SYSTEM

Electric Fence System Certificate of Compliance in accordance with regulations 12(4) and 13(1) of the Electrical Machinery Regulations, 2011.

Certificate No. _____
Certificate Type (Tick appropriate block):
Public Certificate _____
Supplementary Certificate _____
All issued on: _____

To Issue Certificate No. _____

Supplement No. _____

Identification of the relevant installation (Address or other unique reference, where applicable) _____

Physical Address: _____
Name of Premises: _____
Suburb/Township: _____
District/Town/City: _____

I, a registered electric fence system installer, declare that I have personally carried out the inspection and testing of the electric fence system described above as per the requirements of regulation 13(1), and deem the installation to be reasonably safe when properly used.

Registered person registration number: _____ Date of registration: _____

Signature: _____
Contact details of registered person: _____
Tel No. _____
Fax No. _____
Cell No. _____
Email: _____
Address: _____

Declaration by user or issuer
I declare that I am aware of my responsibilities in terms of regulation 12 of the Electrical Machinery Regulations and undertake to operate and maintain the electric fence system in a safe manner.
Signature: _____ Date: _____

For: SECRETARY, OCCUPATIONAL HEALTH AND SAFETY

COC001

GATE AUTOMATION



For more information on our Centurion Range visit our website for the full **AUTOMATION BROCHURE**



CE-D2T



CE-D5EVO



CE-D6

D2 Turbo Gate Motor

- R24m/min (adjustable)
- Maximum gate mass: 250kg
- Maximum gate length 11m
- 12V DC

D5 Evo Gate Motor

- 22m/min
- Maximum gate mass: 500kg
- Maximum gate length 11m
- 12V DC

A10 Gate Motor

- Up to 30m/min
- Maximum gate mass: 2000kg
- Maximum gate length: 11m
- 220V AC Motor
- Optional 12V DC inverter kit available for the A10



CE-D5SMART



CE-D10SMART



CE-D10SMART



CE-D20SMART

D5 SMART Gate Motor

- Up to 36m/min
- Wireless user Interface
- Easy setup and configuration from your smartphone
- On board multichannel NOVA receiver with 1500 button memory
- Individually-configurable inputs and outputs

D10 SMART Gate Motor

- Suitable for gates weighing up to 1t with 750 daily operations
- Smart hardware and smart connectivity for installers
- Patented theft-deterrent cage
- Die-cast aluminium gearbox coupled with a high-torque DC motor built for speed and performance
- 24V battery backup

D10 SMART Turbo Gate Motor

- Turbo speed
- Smart hardware and smart connectivity for installers
- Patented theft-deterrent cage
- Die-cast aluminium gearbox coupled with a high-torque DC motor built for speed and performance
- 24V battery backup

D20 SMART Gate Motor

- Easy "drop-in" replacement for existing A10 sites
- Alert and agile – highly reliable Hall Effect technology keeps track of the gate position at all times, and ensures pin-point stopping
- Installer-friendly design with easy access

Sliding Gate Rack Options

Steel Rack

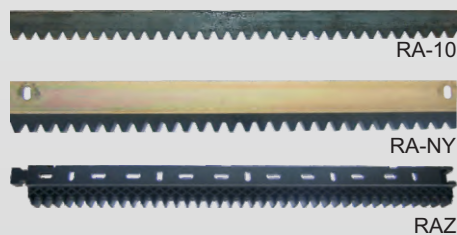
10mm Steel Rack available in 2m lengths to be welded onto sliding gates

Nylon Rack

The 2m lengths of nylon sectional racking is supplied attached to electro-plated or hot-dipped galvanized angle-iron. The angle-iron is then attached to the gate with tek screws.

Razz Rack

The solid nylon Razz Rack is supplied in 50cm lengths. The rack clips together and is attached to the gate with tek screws. It is ideal for coastal regions.



Theft Deterrent Bracket

All Stafix Electric Fence and Security Centres carry a wide range of hot-dipped galvanized and stainless steel Theft Deterrent Brackets for the full range of Centurion sliding gate motors.



GATE & GARAGE DOOR AUTOMATION

Centurion Systems is committed to providing reliable, cost effective solutions in the field of access automation. Centurion is continually updating its products in line with world trends to ensure customer satisfaction. Centurion is an ISO 9001 registered company.



300 CE-VA3
400 CE-VA4
500 CE-VA5



CE - VXO



Vantage

- Heavy duty security
- Easy to install
- High push force
- Revolutionary brake
- Internal limits
- Complete speed control
- Swift operation
- Safe battery backup
- Sensitive anti-crushing control
- All-weather construction
- Easy-to-use
- Operates wirelessly
- Break-in alarm
- Ambush alarm

Vertex

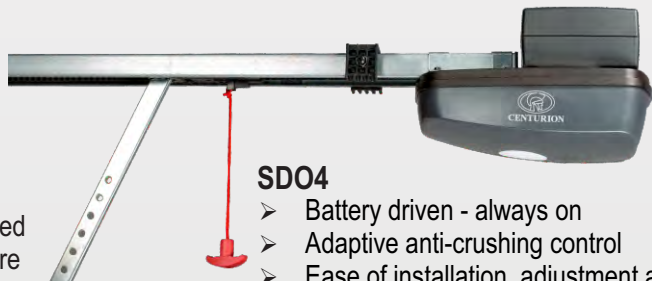
- Secure, strong and superior
- Easy to install
- High push force
- Revolutionary brake
- Internal limits
- Complete speed control
- Swift operation
- Safe battery backup
- Sensitive anti-crushing control
- Anti-fatigue cable harness
- All-weather construction
- Operates wirelessly
- Break-in alarm
- Ambush alarm



CE-SDO4SMDT10VO

SDO4 SMART

- Suitable for sectional and tip-up doors with adjustable speed
- The best built-in safety features and easier than ever before to add beams
- Pioneering peace of mind with an integrated vibration sensor to guard against break-ins, tampering and forced openings



SDO4

SDO4

- Battery driven - always on
- Adaptive anti-crushing control
- Ease of installation, adjustment and setup
- Total security at the press of a button
- On-board receiver with code-hopping security



CE-GSWU

Centurion G-Switch Ultra

- Mobile-based access control
- Internal GSM antenna
- Easy access to diagnostics
- Intelligent monitoring of gate status
- Access number profiles



CE-RODK

Centurion RDO Garage Door Operator

- Available for roll-up doors
- 24-hour 24V DC battery
- Door travel speed of 100-150mm/sec.
- Wall-mounted controller with courtesy light
- Wireless wall pendant



G-Speak Cellular Intercom

- GSM Based Gate Station
- Open your gate from anywhere in the world
- Controls and monitors
- Easy and secure setup
- Easy access to diagnostics
- Intelligent monitoring gate status



Infrared Gate Beams

- Operating range of 40m
- Self-aligning
- Ideal as a safety device for gates and garage doors
- Available in Wired or Wireless



ALOCK

Alarm Lock

- High pitch tamper alarm
- Arm and disarm via key-switch
- Ideal tamper-alarm for anti-theft brackets

IR-CENT
IR-CENTW

SMART Photon Infrared Gate Beams

- Connects wirelessly to your SMART solution – saves time and money
- Pair and align in seconds
- Beautifully styled – adds an air of sophistication to your gate
- Up to 2 years of battery life
- Long range
- Fully sealed – prevents insect ingress



MS001

Gate Mate

- Ideal for areas where gates are operating in dusty or sandy conditions
- Ensures that the track remains clear



IR-CENTWS

GATE & GARAGE DOOR AUTOMATION

E.T. Motor Range

E.T. Systems specialise in the design, manufacture and supply of high-quality automation equipment such as sliding gate motors, tip-up doors, swing-gate motors, and accessories such as remotes, loop detectors and gateway beams.

For more information on our ET Nice Range visit our website for the full AUTOMATION BROCHURE



ET Drive 300

Features:

- Cost Effective residential sliding gate automation
- Tough DC Motor with removable brushes for easy maintenance
- LED Display for easy programming and diagnostics
- Gate safety beam tamper alarm monitoring
- Electronic locking of motor unit with remote control for added security
- ET-Blu Mix enhanced rolling code receiver on board

ET Drive 500

Features:

- Proven robust and reliable residential slide gate automation
- High Speed Motor with removable brushes
- Advanced Electronics with large back-lit display
- Gate and beam tamper alarm monitoring
- Pin code lockable programming
- Optional heavy duty security bracket
- ET-Blu Mix enhanced rolling code receiver on board

ET Drive 600

Features:

- Proven Power Pack for high-traffic applications with true battery backup
- High speed motor with removable brushes
- Advanced Electronics with large back-lit display
- Gate and safety beam tamper alarm monitoring
- Pin code lockable programming
- Optional heavy duty security bracket

DC Blue Advanced Roll-Up

Features:

- Cost effective residential roll-up door operator
- Reliable operation through advanced door load profiling
- No physical limit switches to setup
- A separate control box
- True battery back-up (operator not battery dependant)
- Bright LED courtesy light



DC Blue Advanced Pico

Features:

- Robust construction with metal chasis and gears
- Reliable and proven dc blue advanced technology
- Intelligent door load profiling for added safety and control
- Simple to program and fault find with 7-segment LED display



Stafix Electric Fence and Security Centres stock a range of powder-coated, hot-dipped galvanized or Stainless Steel Goosenecks and Rain Shields.

Proximity Controllers and Tags



A full range of proximity controllers, door tags and access cards are available on order. These systems cater for simple, single-door, stand-alone operators right through to computer-interfaced systems.

For more information on our Electric Locks Range visit our website for the full BROCHURE



Electric Locks

Stafix offers a wide range of Magnetic Locks, Strike Locks and Z-Brackets. These can be connected to your keypad or tag reader for the perfect access control system.

- 180Kgs with optional Z Bracket
- 280Kgs with optional Z Bracket
- 500Kgs with optional Z Bracket

ALARM SYSTEMS

IDS Alarm Systems

The IDS is a fully-featured security system that provides immediate notification of burglary, fire, medical & panic conditions. It is designed for easy operation, yet provides maximum protection for you, your family and your business. Most features are optional and may be programmed either directly through the keypad or via the telephone system by using the IDS download software and appropriate modem.



For more information on our Alarm System Range visit our website for the full IDS BROCHURE



IDS-805

IDS 805 Kit – 8 Zones

- 8 Zones – non expandable
- Dual onboard power supply
- An all-new operating system
- Easier to program than ever before
- Bigger installations mean lower cost per zone



IDS-X64



IDS X64 – 8 to 64 Zone Expandable Kit

- Incredible expansion ability from 8 to 64 zones
- Additional panic zone
- Separate box tamper zone
- Additional output on key
- Automatic arming
- 3 quick alarm modes
- Event log
- Night-, chime- and buzz-zone selectable
- Dual and split reporting
- False alarm reduction features
- Panel firmware upgradable via serial data cable



IDS-806-KIT2

IDS 806 Kit – 8 Zones

- 8 Zones – non expandable
- Dual onboard power supply
- An all-new operating system
- Easier to program than ever before
- Bigger installations mean lower cost per zone

IDS Remote Arming Kits for 805/806/x64 Panels

- Arm/Disarm
- Stay Arm
- Any button is a Panic
- Includes receiver and two remotes



IDS806 Kit consists of the following:

- 1 x 806 LED Keypad
- 1 x 806 Alarm control panel
- 1 x 806 24V DC PSU 1.5a
- 1 x 15W Siren
- 1 x IDS 12V 7AH Battery
- 2 x IDS Magnetic Switches (White)
- 2 x Panic Button Fixed (Glow in the dark)
- 2 x Optex RX Core Saver Wired Indoor PIR



IDS/HYYP add on module for app control

- Arm/Disarm User
- Bypass
- Push Notifications
- Video verification when using Dahua CCTV



CCTV SURVEILLANCE SYSTEMS

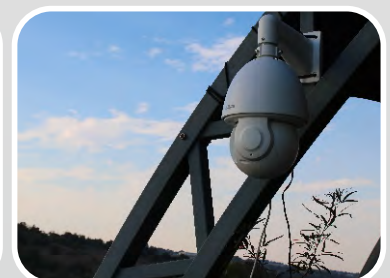
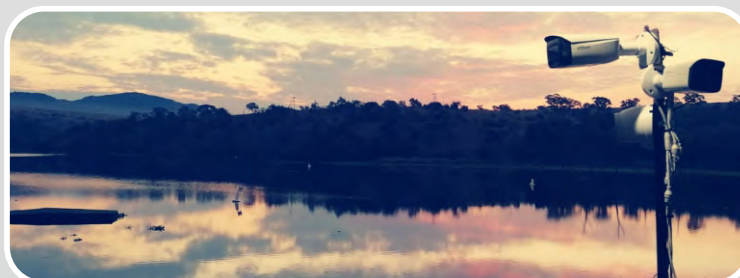
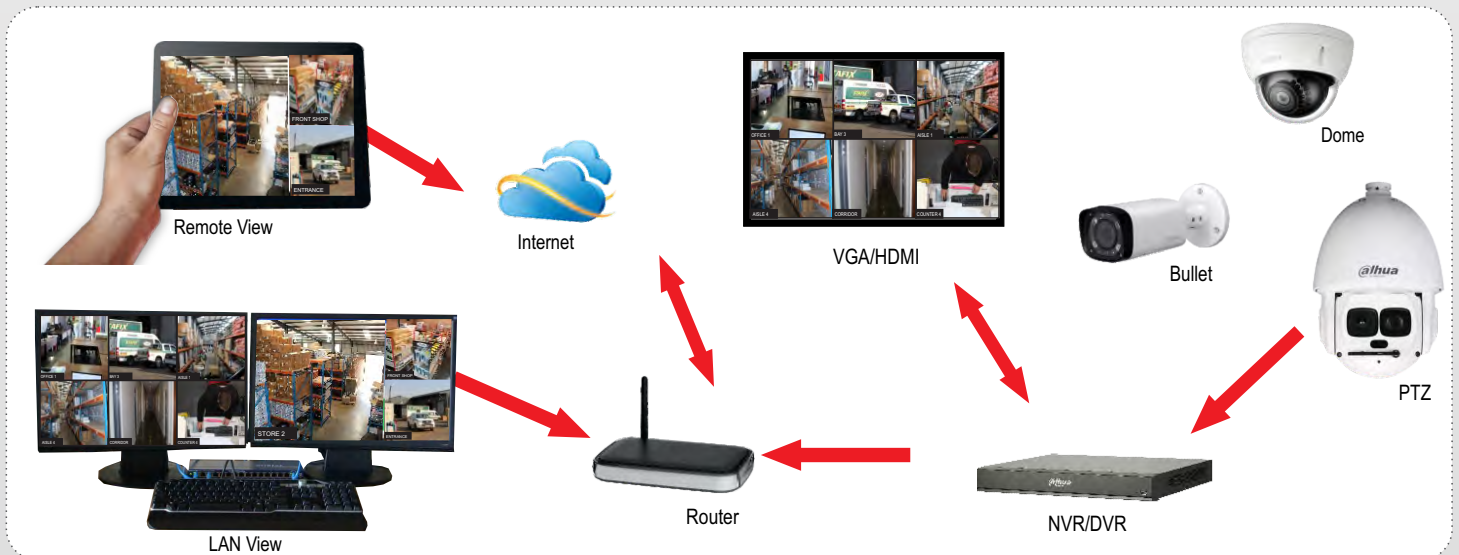


CCTV Products

Stafix Security Centres import a range of CCTV cameras and accessories. These products will enable any home, business or small factory warehouse to be closely monitored. These systems range from basic cameras reporting back to a TV, to fully integrated DVR and NVR monitored systems.

Since your choice of CCTV system impacts on the quality of your security, it is unwise merely to purchase an off-the-shelf 'Kit'. Stafix Security Centres offer you the expertise and CCTV range of cameras to custom build your system and achieve your dedicated requirement.

It is also not advisable to purchase your CCTV system on price alone. There is a wide variety of cameras on the market. By knowing what you want and what you are buying, you are more likely to achieve an end result that is to your satisfaction.



CCTV SURVEILLANCE SYSTEMS



For more information on our CCTV Range visit our website for the full DAHUA BROCHURE

CCTV Game Farm Security

Wireless transmission becomes an important tool on large sites such as game farms where applications require video signals to be transmitted back to a central control room. Stafix Security Centres can help you design a wireless network, integrating CCTV and perimeter patrol software, to allow you to monitor fence conditions as well as CCTV feeds from different locations all over the farm.

Complete integration would enable you to visually monitor key areas and perimeters of your game farm. The integrated system would enable monitoring of key areas such as lodges, water holes, fence lines and camps all around the farm from a centralised control room or off-site monitoring from a PC, tablet or smartphone.



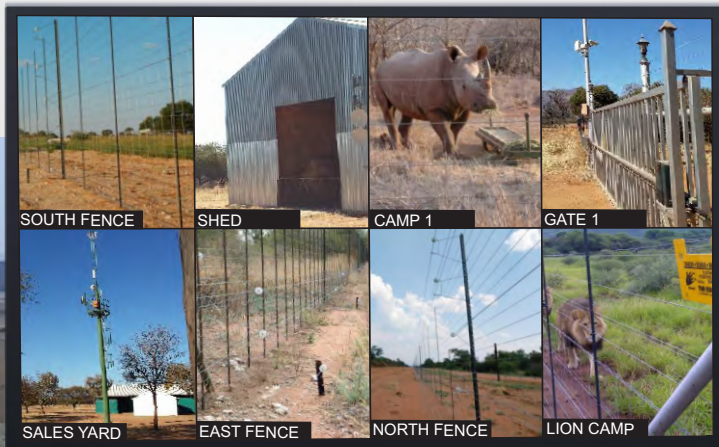
Camera View



Wi-Fi Transmitter Station



Wi-Fi Receiver Station and Control Room



Monitor Screen

Control Room Software



CP IP Cam

WIRELESS OUTDOOR SURVEILLANCE



For more information on our Roboguard Range visit our website for the full **WIRELESS OUTDOOR EARLY WARNING BROCHURE**

Roboguard is a reliable, affordable outdoor surveillance system, ideal as an add-on to any electric fence, alarm or complete stand-alone security system. The Roboguard sensor is weatherproof, tamper-proof, robust, impervious to lightning and UV damage.



Roboguard Beam

A battery operated, dual-sensor, outdoor movement detector designed to detect intruders and wirelessly transmit the information to a Roboguard Base station. The internal batteries have a ± 2 -year life span. The Roboguard dual-beam system uses state-of-the-art equipment and technology.



Portable Headquarters (HQ)

A portable 8-zone, 4-output, base-station is used to receive and announce signals from up to 8 Roboguard Sensors. The HQ can also be wired to a siren and/or alarm panel.



Alarm Interface

The Roboguard alarm interface is used to interface up to 4 Roboguards with individual intruder detection, tamper and status LEDs.



Power Pack

The HQ interfaces with external devices such as a siren and/or alarm panel. It is a complete solution with a 7A/h battery, 16V DC transformer, tele-cable, DC power to HQ and 5 relay out-put PCBs.



Receiver

A separate receiver provides the data stream for the Keypad and for the repeater station.



Transmitter

A Roboguard Transmitter is capable of transmitting roboguard intruder and roboguard remote alarms in response to triggering from externally connected systems.



LED

The LED Driver unit is used to indicate visually the status of the Roboguard system. The status is indicated via an add-on LED. LED indicates *Armed*, *Disarmed* or *Alarm* conditions.



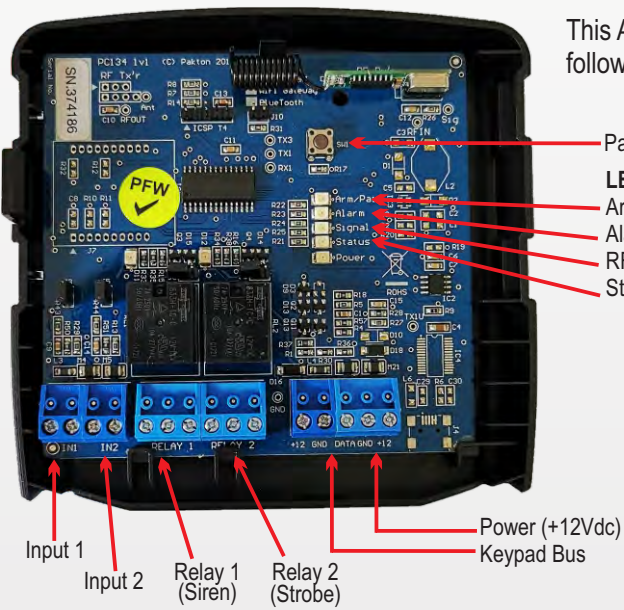
Keyfob Transmitter

A handheld, remote transmitter is used as a panic button and remote control for radio base-stations. 4-button and 6-button versions are available.

WIRELESS OUTDOOR SURVEILLANCE

JVA RFI Interface Module Compatible with Roboguard

This Australian designed and manufactured device is highly reliable and boasts the following features and benefits.



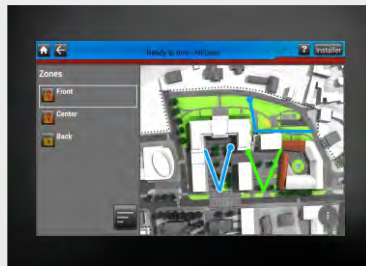
Features

- Can monitor up to 8 wireless zones
- Can monitor up to 2 wired zones (sacrificing 2 wireless zones)
- Can be paired with up to 20 remotes
- Alarm reporting for each zone – through a User Interface
- Programmable Options – easy to customize the device to suit varying site requirements
- 2 programmable function relay outputs

Frequency range

- 200m – Roboguard Detectors
- 60m – PIR Detectors
- 40m – Remotes

A Roboguard Repeater might be required for larger sites or improved signal strength.



JVA Android Keypad Configuration

Program the Roboguards into the JVA RFI via the program button or the JVA Android Keypad. Arm and disarm the system via a JVA Remote or Roboguard Remote or JVA Android Keypad. When a Roboguard detects motion, the RFI will trigger the siren and strobe outputs and the zone name will display on the JVA Android Keypad Mimic screen. Zones can be named for easier identification.

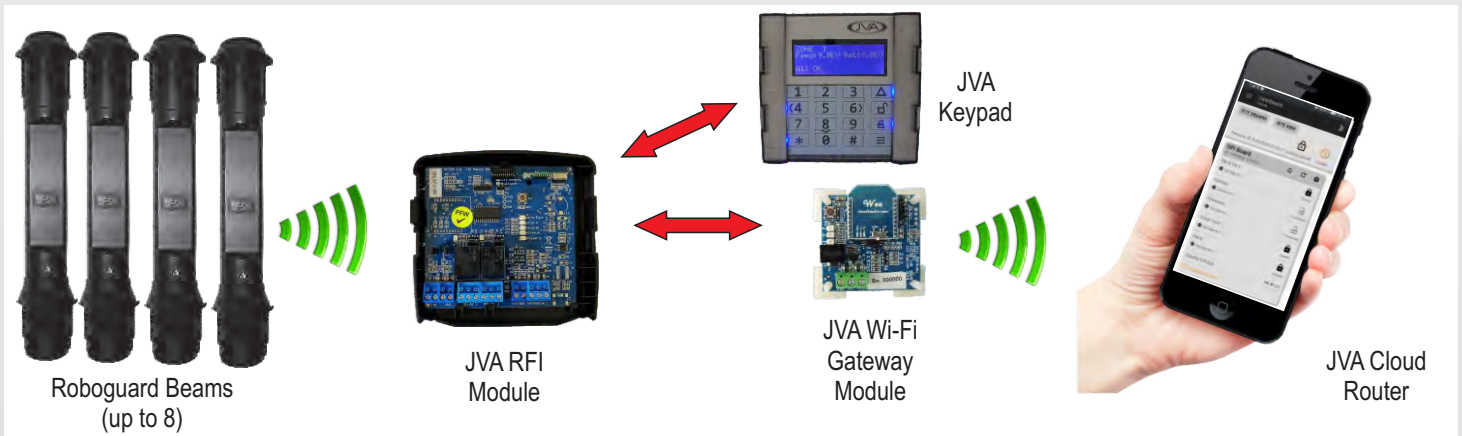


Diagram of Roboguards Interfacing to a JVA Cloud Router on an Internet enabled device via an RFI Board

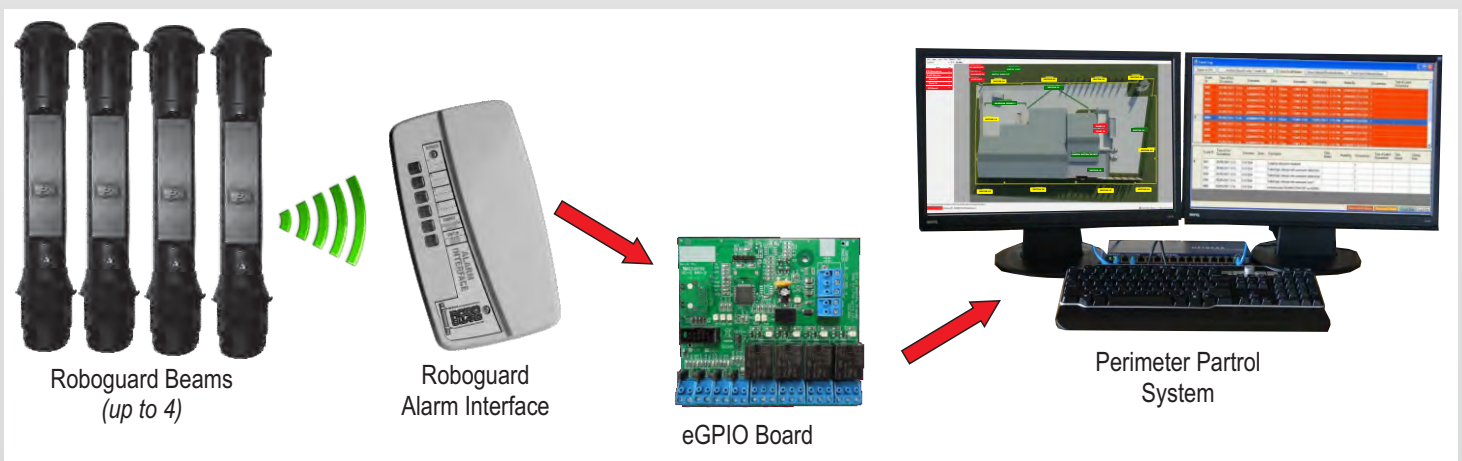


Diagram of Roboguards Interfaced with a Perimeter Patrol System

AFTER SALES SERVICE, REPAIRS AND CONSULTANCY

With regards to security, product reliability and fast and efficient back-up service is paramount. So, an installation is only as good as the security company's ability to provide sound products and service. Apart from its certification, Stafix offers a 2-year warranty on products. Ndlovu Fencing aims at prompt turn around on repairs to Stafix, JVA Energizer, CCTV and Gate Motor products, at their in-house repair and service facilities country-wide.

In addition, a country-wide Stafix dealer network is ever present to provide fast and efficient in-field installation and back-up service. Further, should an accredited dealer not provide satisfactory back-up service at an installation where he has installed and commissioned Stafix/JVA products, the company undertakes to meet all obligations relating to those products that have been installed. While fence maintenance, fault finding, and fence repairs are excluded from this undertaking, the company does offer consultancy services and advice on how best to solve fencing challenges. With over 50 years experience in the field of electric security fencing, Ndlovu Fencing's management is proud still to be servicing customers it first sold to in 1978.

STAFIX TRAINING CENTRES

In addition to having trained sales personnel and in-house service technicians at all our distribution outlets, Stafix Security Centres also has fully equipped training facilities with trained facilitators where regular training courses, ranging from a basic introductory course on electric fencing to installation techniques, legal requirements and advanced technical training on our wide range of products, is offered. We also run in-house customized training courses for specialized groups at locations such as venues serving security associations, farmer's security forums, schools, neighbourhood watch groups and game reserves.

Stafix Security Centres and JVA's close association with their vast range of international trading partners, enables these companies to keep abreast with the latest international trends, developments, and requirements. Stafix Security Centres offer a comprehensive SAQA registered course and examination to qualify as an installer registered to issue a *Certificate of Compliance*. Ndlovu Fencing (Pty) Ltd, JVA's African distributor, is a leading role player in the setting up of the current South African Electric Fencing Standards and Regulations and Ndlovu's management are members of associations such as SASA, SABS Standards Committee, the Electric Fence and Components Manufacturer's Association, ESDA and the South African Game Fencing Association.



The main image shows the exterior of the Stafix Training Centre. A large sign on the roof reads "STAFIX TRAINING CENTRE". Below it, five smaller signs list services: "ELECTRIC FENCING", "CCTV SYSTEMS", "ALARM SYSTEMS", "GATE MOTORS", and "WIRELESS BEAMS".



Four inset images show the interior of the training centre: a hallway with a mural, a classroom with students at desks, a technical workshop with equipment, and a display area with informational panels.



A circular logo for "STAFIX SECURITY CENTRES" and "JVA QUALITY SYSTEMS" is overlaid on the bottom left. It features a stylized elephant and the text "Professional Electric Fence Installer Certificate of Competency Course". A QR code is located below the logo.

For more information on any of our training courses visit our website for more information

DO'S AND DON'TS OF ELECTRIC FENCING

Do's

- Do select the right energizer for the job on hand. Determine the fence load and check that the energizer can cope with this load.
- Do make sure that your system is well earthed.
- Do place the energizer in a safe locality and out of reach of children.
- Do secure all joints with either line clamps or ferrules.
- Do seal the joints to eliminate any corrosion.
- Do be conversant with the law and codes of practice applicable to electric fencing (SANS 10222-3).
- Do make sure that there are no local by-laws that may influence your installation.
- Do make sure that you are fully conversant with the workings of the unit you have installed.
- Do make a sketch of your layout and of the wiring configuration of the fence. Retaining this will facilitate fault finding and maintenance.
- Do make sure that your supplier can service the unit you have chosen and that spares are readily available.
- Do make sure that your installer is a registered installer and ask for references.
- Do make sure that you receive a *Certificate of Compliance* from the installer.
- Do make sure that the energizer you have installed is certified and meets the required statutory safety requirements (SANS 60335-2-76).
- Do consult your neighbour before installing an electric security fence, (Assuming you meet all the legal requirements, s/he has no reason to object).
- Do let only suitably qualified people operate your system and limit the number of key holders.
- Do make sure that the energizers are synchronized where there is the possibility of a person touching two fence lines powered by two different energizers.
- Do display warning signs as per the legislation.



Don'ts

- Don't electrify barbed wire.
- Don't include H.T. feed-out wires and H.T. return wires in the same conduit.
- Don't include H.T. wires in the same conduit as low voltage communication cables, as you will encounter induction problems.
- Don't combine unlike metals, i.e. copper earth stakes attached to galvanized wire, as electrolysis will occur and your wires will soon corrode away.
- Don't have an overhang that encroaches on your neighbour's property or over municipal property.
- Don't install two energizers on the same fence line unless they are synchronized.
- Don't earth your energizer to a mains or telecommunication earth system.
- Don't attach your earth to taps, dairy, or shower pipes as you could experience induced shocks.



STAFIX™

SECURITY CENTRES



SECURITY SYSTEMS

BRANCH DETAILS

Bethlehem

Shop 8 & 9, River Walk Centre
4 Muller Street
Tel: 058 050 1090

Centurion

74 Cantonments Road
Cnr. Botha Ave, Lyttelton
Tel: 012 880 0222

George

Shop 3
57 York Road
Tel: 044 874 0669

Nelspruit

Unit 4, 20 Rapid Street
Riverside Industrial Park
Tel: 013 752 7152

Pinetown

Unit 1, Suffert Industria Park
7 Suffert Street
Tel: 031 702 6351

Pretoria

1185 Steve Biko Road
Wonderboom South
Tel: 012 335 4290

Upington

67 Schroeder Street
Tel: 054 332 1458

Bloemfontein

18 Kolbe Lane
Oranjesig
Tel: 051 448 6695

Durban North

Unit B
213 Kenneth Kaunda Road
Tel: 031 563 0274

Kimberley

27A Schmidtsdrift Road
Rhodesdene
Tel: 053 861 5631

North Rand (Kya Sand)

174 Bernie Street
Kya Sand, Randburg
Tel: 011 708 6442

Polokwane

Cnr. Zune and Veldspaat Street
Extension 42
Tel: 015 292 6273

Rustenburg

Shop 8, Waterfall Mall
1 Howick Avenue
Tel: 014 537 2884

Vanderbijlpark

Manufacturing
18 Fairbank Street
Tel: 082 783 8449

Cape Town (Central)

Unit 15, Viking Business Park
7B Park Road, Epping Industria
Tel: 021 534 5056

East Rand (Jet Park)

219 Jet Park Road
Aerostar Business Park
Tel: 011 397 3507

Klerksdorp

72 Central Avenue
Flamwood
Tel: 018 468 8273

Paarl

Shop 2, Huguenot Park
Cnr. Klein Drakenstein Road
Tel: 021 862 0886

Port Elizabeth

No 35 Third Avenue
Newton Park
Tel: 041 365 7178/9

Somerset West

Shop 1, Broadway Centre
11 Urtel Crescent
Tel: 021 851 1978

Vanderbijlpark

5 Prime Business Park
6 Rabie Street
Tel: 016 931 0408

West Rand (Roodepoort)

599 Ontdekkers Road
Florida, Roodepoort
Tel: 011 472 8823

Cape Town (South)

Shop 2, Tramways Village
89 Main Road, Diep River
Tel: 010 880 8281

East London

Shop 8 & 9, Paphos Park
9 Devereaux Avenue
Tel: 043 726 6652/60

Mozambique

Estr. Nacional 2, Entrada 238
Armazen 7, Matola A
Tel: +258 85 680 8475

Pietermaritzburg

51 Winston Road
Tel: 033 342 6722/27

Potchefstroom

Havenga Building
35 Dr. James Moroka Avenue
Tel: 018 297 1488

Stafix Training Centre

80 Herman Road
Harmelia, Ext.2
Tel: 011 397 3507

Vryheid

Unit F, 153 President Street
Cnr. Hlobane Street
Tel: 034 981 0318

e-mail: Gauteng – efc@stafix.co.za

KZN – ndlovu@stafix.co.za

Postal Address: PO Box 13898

Cascades 3202

Website: www.stafix.co.za



DEALER'S STAMP