

JVA Z13 Economy Security Energiser



Z13

The JVA Z13 One-Zone Security Energiser is the entry level energiser in the Z-Range. It is manufactured to meet customer demand for a simple, no-frills, economical unit for small, domestic, commercial and industrial sites. The unit is fully compatible with the Z-Range keypad and when wired up to a keypad is fully programmable.

Features:

- High Voltage, Single Zone Fence Monitor triggers alarm when the live wires are tampered with
- Earth Wire Monitor triggers alarm when the earth wires are tampered with
- Gate Monitor input to monitor the gate
- 3 Joules maximum output energy
- Compliant with IEC60335-2-76
- Built-in Lightning and Surge Protection
- Internal Battery Backup in case of power failure
- Up to 24-Hour Monitoring in the event of a power failure
- Low Power Option – Ideal for locations where monitoring is required but high voltage is not required 24 hours on the fence
- Energiser supplied with secure Key Switch Operation
- Diagnostic Mode
- Keypad Compatible – Add optional Z-Range Keypad
- Dynamic Voltage Monitoring minimising arcing and false alarms while maximising power and battery life



TWO-YEAR WARRANTY

All JVA products carry a 2-year warranty against defective components and workmanship. The warranty excludes damage caused by acts of Nature such as lightning or flooding, power supply surges, rough handling, malicious action or incorrect wiring.

Please retain your invoice as proof of purchase and fill in the warranty form provided in the user manual.

JVA Z14 Standard



Z14

JVA Z14

The JVA Z14 One-Zone Security Energiser with LCD display is a top-of-the-range energiser that can meet all requirements from the basic home security fence to fully integrated high profile installations. The energiser has an LCD display showing *out* and *return* voltages, battery condition and fence programming settings. The unit is fully compatible with the Z-Range keypad and when wired up to a keypad is fully programmable. The energiser can be networked with other Z-Range energisers to synchronise pulses and become a multi-zone group for larger sites where many zones are required. The Z14 can be controlled by a PC or by up to 4 keypads, or one keypad can control up to 14 Z-Range energisers.

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 *Out* and *Return* Display
- Gate Monitor input to monitor the gate
- Dynamic Voltage Monitoring minimising arcing and false alarms while maximising power and battery life
- 4 Joules maximum output energy
- Compliant with IEC60335-2-76
- Built-in Lightning and Surge Protection
- Internal Battery Backup in case of power failure
- Up to 24-Hour Monitoring in the event of a power failure
- High and low power options
- Energiser supplied with secure Key Switch Operation
- Diagnostic Mode
- 2 Standard Fully Programmable Relays plus option for three more on request
- Keypad Compatible – Add Z-Range Keypad
- Available in Bi-Polar Option on request
- Pulse Synchronisation in group mode

JVA Z18 Standard



Z18

JVA Z18

The JVA Z18 One-Zone Security Energiser with LCD display is a top-of-the-range high power energiser ideal for the larger longer security fence installations where more power is required. The Z18 can meet all requirements from longer wall-top fences to industrial and high profile installations. The energiser has an LCD display showing *out* and *return* voltages, 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 energiser can be linked with other Z-Range energisers to synchronise pulses and become a multi-zone group for larger multi-zone sites. The Z18 can be controlled by a PC or up to 4 keypads, or one keypad can control up to 14 Z-Range energisers.

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 *Out* and *Return* Display
- Powerful 8 Joule Energiser
- Gate Monitor input to monitor the gate
- Compliant with IEC60335-2-76
- Built-in Lightning and Surge protection
- Internal Battery Backup in case of power failure
- Up to 16-Hour Monitoring in the event of a power failure
- High and low power options
- Dynamic Voltage Monitoring minimising arcing and false alarms while maximising power and battery life
- Energiser supplied with secure Key Switch Operation
- Diagnostic Mode
- 5 Programmable Relay Outputs as standard
- Keypad Compatible – Add Z-Range Keypad
- Available in Bi-Polar Option on request
- Pulse Synchronisation

JVA Z14A and Z18A Bi-Polar

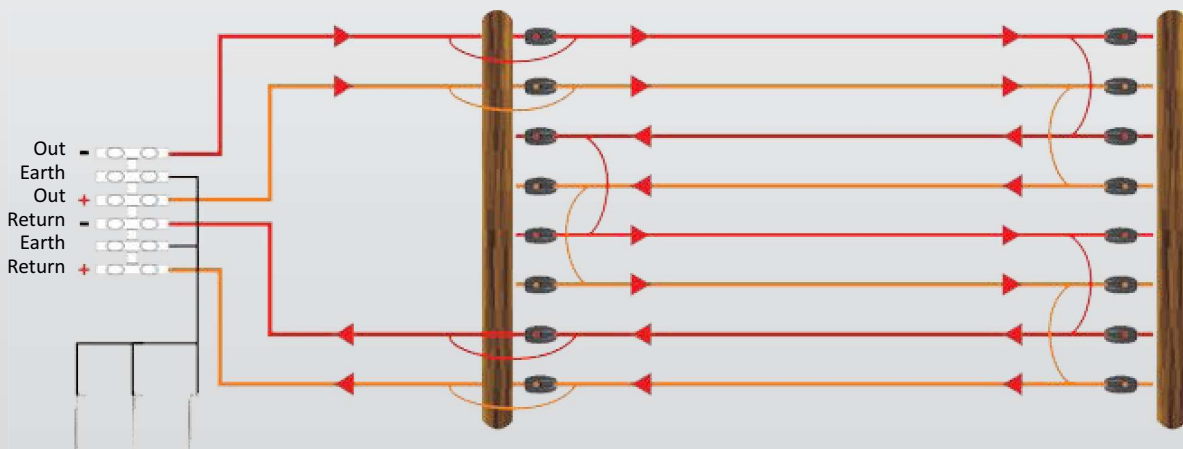
What is Bi-POLAR fencing?

The new JVA Z14A Energiser can be purchased in 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 energiser has the ability to pulse synchronised 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 live 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 Z28

JVA Z28



Z28

The JVA Z28 Two-Zone Security Energiser with LCD display is a top-of-the-range high power energiser ideal for installations where better zone identification is required. The Z28 can meet all requirements from longer wall-top fences to industrial and high profile installations. The energiser 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 energiser can be linked with other Z-Range energisers to synchronise pulses and become a multi-zone group for larger multi-zone sites. The Z28 can be controlled by a PC or up to 4 keypads, or one keypad can control up to 14 Z range energisers.

The Z28 is unique in that each zone is individually controllable, allowing each to be individually operated and programmed via the keypad. Unlike many other energisers available in the market, a short on one Zone on the Z28 will have no effect on the voltage on the other Zone. The Z28 is in essence two Z14 energisers in one. This means fences powered by one Z28 can be individually armed and disarmed or put in high or low voltage mode.

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 *Out* and *Return* Display
- Powerful 8 Joule Energiser
- Gate Monitor input to monitor the gate
- 4 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
- Up to 24-Hour Monitoring in the event of a power failure
- Dynamic Voltage Monitoring minimising arcing and false alarms while maximising power and battery life
- High and low power options
- Energiser supplied with secure key switch operation
- Diagnostic Mode
- 3 Standard programmable relays (1 siren and 2 strobe) – excellent for communication
- Optional extra Relay Board on request – total 6 relays
- Keypad Compatible – Add Z-Range Keypad
- Pulse Synchronisation

LCD Display



- Fence Out and Return Voltage Display on Z14 and Z18
- Fence Return Voltage Display on Z28 and Bi-Polar models
- Actual Battery Voltage
- Low Battery Warning
- Battery Condition
- Programme Settings
- Software Version
- Diagnostic Feed-Back

Certification

It is a legal requirement both locally and internationally that electric fence energisers must comply with stringent safety criteria as stipulated in SANS 60335-2-76:2006. JVA energisers comply with these standards. They are tested and certified by Power Lab Limited, an internationally accredited test laboratory.

